

PRICE INCREASE AS OF 1.1.2023
ON: „PRICES AND TECHNOLOGY 2021-N“

46,54 % on column radiators
11,9 % as of 1.8.2021 | 8,9 % as of 1.1.2022
15,9 % as of 1.6.2022 | 3,75 % as of 1.1.2023

50,18 % on accessories
7,9 % as of 1.8.2021 | 6,9 % as of 1.1.2022
24,0 % as of 1.6.2022 | 5,0 % as of 1.1.2023

 **arbonia**

COLUMN RADIATORS. PRICES AND TECHNOLOGY 2021-N

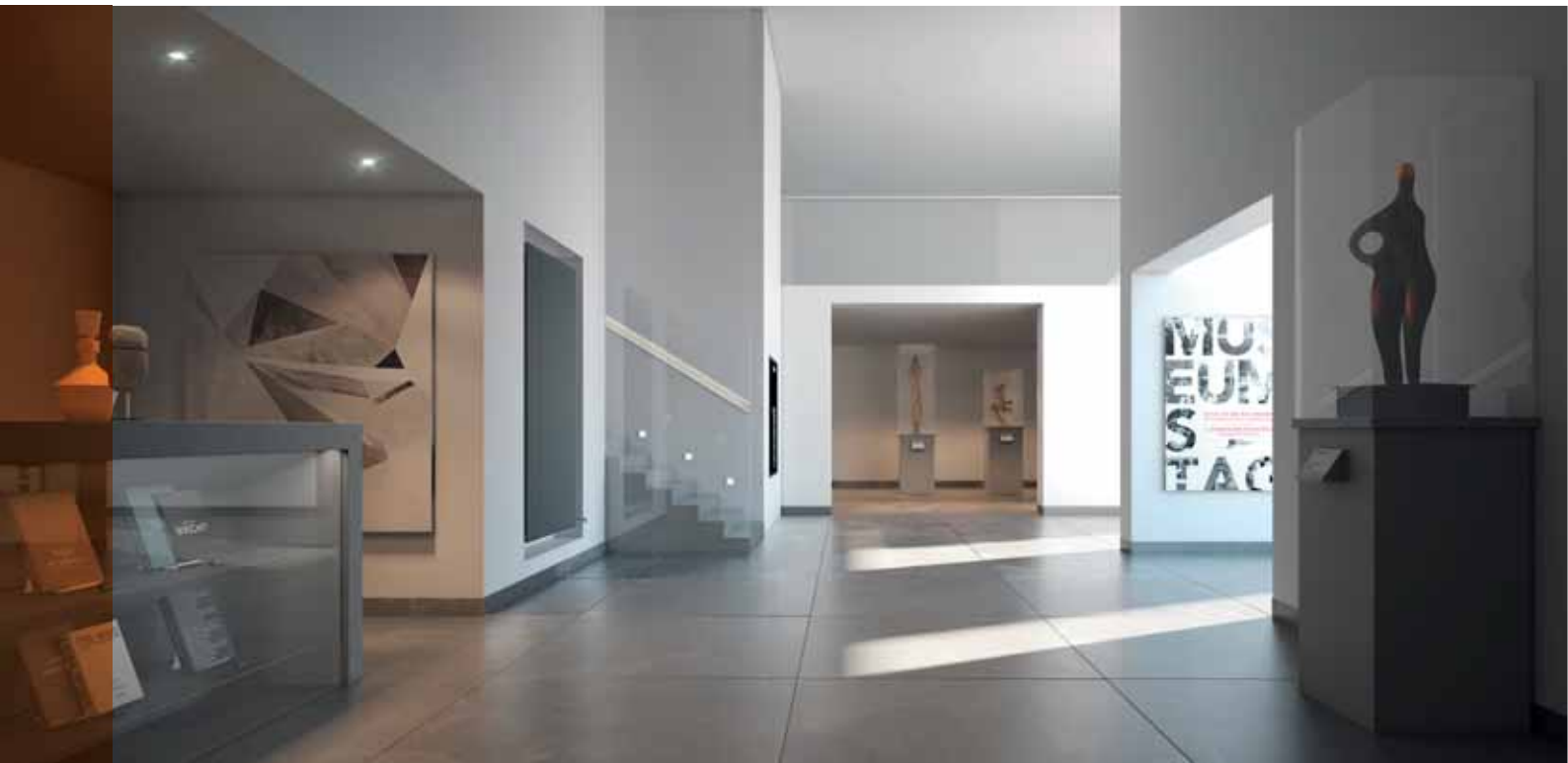


HOW TO PROVIDE QUALITY RIGHT TO THE POINT?

More than 60 years ago, the founders of Arbonia had one aim in mind: providing human beings with “warming” solutions. But today our aim is much broader. Arbonia is a brand for heating solutions and fulfils the highest expectations for public and commercial buildings. But we still adhere to our founders’ high standards: customer support and solutions that are right to the point. What does that mean in practical terms? That’s simple: We adhere to delivery and scheduling arrangements down to the smallest detail. High-quality packaging is only the first aspect of the Arbonia standard of quality. Our products’

build quality and long service life have ensured customer satisfaction for years now and conform to the strict requirements of the applicable guidelines and standards. Individual customer service and the greatest possible flexibility of form and colour design are a matter of course for us. A string of awards demonstrates our design expertise. We at Arbonia continue to add our passion to all of our development efforts – to provide the right room temperature solution for you.

right to the point 



Flexible and safe:
the most important applications
of our column radiators



Wall



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General information

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Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

Accessories

Further
information

ARBONIA COLUMN RADIATORS: GENERAL INFORMATION



In the following section,
you will find:

- Model overview
- Order with completely configured order number



MODEL OVERVIEW OF STANDARD COLUMN RADIATORS



Type				
Standard without built-in valve	2...	3...	4...	5...	6...
Depth	65 mm	105 mm	145 mm	185 mm	225 mm
Number of columns	2	3	4	5	6
Length	270–2970 mm ¹⁾				
Height	180–3000 mm				
Explanation of version code	2 : 2 columns ... : height in cm	3 : 3 columns ... : height in cm	4 : 4 columns ... : height in cm	5 : 5 columns ... : height in cm	6 : 6 columns ... : height in cm
Example	2050 : 2 : 2 columns 050 : height 50 cm				

MODEL OVERVIEW OF CAMBIOTHERM



Type				
Standard without built-in valve	2...	3...	4...	5...	6...
Depth	65 mm	105 mm	145 mm	185 mm	225 mm
Number of columns	2	3	4	5	6
Length	270–2970 mm ¹⁾				
Height	270–1070 mm				
Explanation of version code	2 : 2 columns ... : height in cm	3 : 3 columns ... : height in cm	4 : 4 columns ... : height in cm	5 : 5 columns ... : height in cm	6 : 6 columns ... : height in cm
Example	2097 : 2 : 2 columns 097 : height 97 cm				

MODEL OVERVIEW OF STANDARD COLUMN RADIATORS WITH BUILT-IN VALVE



TypeV				
Standard with built-in valve	2...V	3...V	4...V	5...V	6...V
Depth	65 mm	105 mm	145 mm	185 mm	225 mm
Number of columns	2	3	4	5	6
Length	270–2970 mm ¹⁾				
Height	180–3000 mm				
Explanation of version code	2 : 2 columns ... : height in cm V : with factory k _v -preset built-in valve	3 : 3 columns ... : height in cm V : with factory k _v -preset built-in valve	4 : 4 columns ... : height in cm V : with factory k _v -preset built-in valve	5 : 5 columns ... : height in cm V : with factory k _v -preset built-in valve	6 : 6 columns ... : height in cm V : with factory k _v -preset built-in valve
Example	2050 : 2 : 2 columns 050 : height 50 cm V : with factory k _v -preset built-in valve				

¹⁾ The specifications refer to the maximum length of the first block.



MODEL OVERVIEW OF SANO RADIATORS



M....					
Type	M2...	M3...	M4...	M5...	M6...
Standard without built-in valve					
Depth	65 mm	105 mm	145 mm	185 mm	225 mm
Number of columns	2	3	4	5	6
Length	370–2970 mm ¹⁾				
Height	260–3000 mm				
Explanation of version code	M : Sano radiator 2 : 2 columns ... : height in cm	M : Sano radiator 3 : 3 columns ... : height in cm	M : Sano radiator 4 : 4 columns ... : height in cm	M : Sano radiator 5 : 5 columns ... : height in cm	M : Sano radiator 6 : 6 columns ... : height in cm
Example	M2026		M : Sano radiator 2 : 2 columns 026 : height 26 cm		

MODEL OVERVIEW OF SANO RADIATORS WITH BUILT-IN VALVE



M...V					
Type	M2...V	M3...V	M4...V	M5...V	M6...V
Standard with built-in valve					
Depth	65 mm	105 mm	145 mm	185 mm	225 mm
Number of columns	2	3	4	5	6
Length	370–2970 mm ¹⁾				
Height	260–3000 mm				
Explanation of version code	M : Sano radiator 2 : 2 columns ... : height in cm	M : Sano radiator 3 : 3 columns ... : height in cm	M : Sano radiator 4 : 4 columns ... : height in cm	M : Sano radiator 5 : 5 columns ... : height in cm	M : Sano radiator 6 : 6 columns ... : height in cm
	V : with factory k _v -preset built-in valve				
Example	M2026		M : Sano radiator 2 : 2 columns 026 : height 26 cm		

MODEL OVERVIEW OF BENCH RADIATORS



.F....			
Type	.F4...	.F5...	.F6...
Standard with built-in valve			
Depth	145 mm	185 mm	145 mm
Length	1200–3000 mm		
Height	180–315 mm		
Explanation of version code	: number of elements (4–7), corresponds to height F4 : bench radiator with 4 columns ... : length in cm	: number of elements (4–7), corresponds to height F5 : bench radiator with 5 columns ... : length in cm	: number of elements (4–7), corresponds to height F6 : bench radiator with 6 columns ... : length in cm
Example	6F4150		6 : 6 elements, height = 250 mm F4 : 4 columns, depth = 145 mm 150 : 150 cm length

¹⁾ The specifications refer to the maximum length of the first block.



ORDER WITH COMPLETELY CONFIGURED ORDER NUMBER

Arbonia column radiators can be ordered in 2 universal variants (without built-in valve / with built-in valve) with a wide range of sizes. These are completely configured order items that offer various installation options on site. The individual technical ordering parameters are already predefined here. This makes it possible to order the column radiators faster and more conveniently.

This concerns the model types standard column radiator and Cambiotherm replacement radiator.

The order number system and product range are explained below.

EXPLANATION OF THE ORDER NUMBER SYSTEM

Model	Version	Type	Height	Length	Colour	Connection system	Fixing
RR = Arbonia column radiator	N = standard without built-in valve V = standard with built-in valve	20 = 2 columns 30 = 3 columns 40 = 4 columns 50 = 5 columns 60 = 6 columns	018 = 180 mm 019 = 190 mm 026 = 260 mm 027 = 270 mm 030 = 300 mm 035 = 350 mm 037 = 370 mm 040 = 400 mm 042 = 420 mm 045 = 450 mm 050 = 500 mm 055 = 550 mm 057 = 570 mm 060 = 600 mm 067 = 670 mm 075 = 750 mm 090 = 900 mm 097 = 970 mm 100 = 1000 mm 107 = 1070 mm 110 = 1100 mm 120 = 1200 mm 150 = 1500 mm 180 = 1800 mm 200 = 2000 mm 220 = 2200 mm 250 = 2500 mm 280 = 2800 mm 300 = 3000 mm	006 = 6 elements 007 = 7 elements ... 066 = 66 elements	2 = RAL 9016	2 = without built-in valve (connection system 2-pipe; connections 4 x 1/2"; air vent and blanking plug enclosed) 6 = with built-in valve M30 x 1.5 (connection system 31; Connections bottom centre 2 x 1/2" with hub distance 50 mm; air vent built-in)	X = without fixing

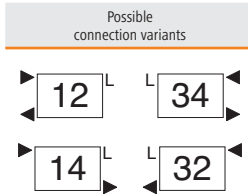
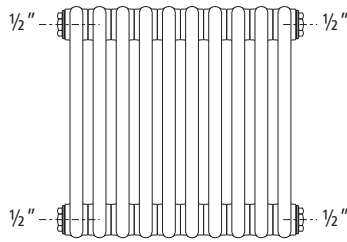
EXAMPLE: RRN 20 030 006 2 2 X A

Arbonia column radiator; standard without built-in valve; 2-column type; height 300 mm; length 6 elements; colour RAL 9016 white; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; air vent and blanking plug are enclosed.



OVERVIEW OF UNIVERSAL VARIANTS AND CONNECTION TYPES

Variant 1 column radiators without built-in valve



Air vent and blanking plug for draining are enclosed

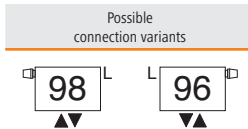
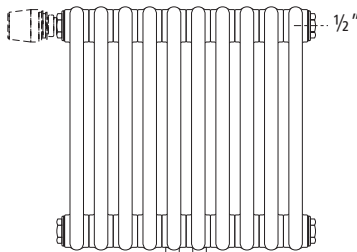
Code for the order number at position 13

R R 2 X A

Description

- Universal solution for 4 different connection types (2 on same side and 2 on alternating sides)
- 2-pipe connection with 4 x 1/2" connections
- The connection image can be changed on site by the individual installation of air vent and blanking plug
- Connection size: 1/2" internal thread
- Air vent ZT0009 0001 and blanking plug ZT0008 0001 are enclosed
- Fixing accessories are not included in the scope of delivery and must be ordered as accessories

Version 2 column radiators with built-in valve



Air vent installed

Code for the order number at position 13

R R 6 X A

Description

- Factory k_v-preset built-in valve arranged at the top on the side
- Standard valve insert with M30 x 1.5 connection
- 2-pipe connection at bottom centre with 50 mm hub distance
- On site, the connection image can be changed by turning the radiator by 180° (96 <-> 98)
- Connection size: 1/2" internal thread
- Air vent ZT0009 0001 is installed on site
- Fixing accessories and thermostatic sensor head are not included in the scope of delivery and must be ordered as accessories

SIZE RANGE OF ARBONIA COLUMN RADIATORS WITH ORDER NUMBER

The column radiators with an order number are only available up to a maximum number of elements in one block. The restrictions are defined as follows:

Models	Height [mm]	max. elements first block	Length [mm]
2-column	190–2000	66	2970
	2200–3000	42	1890
3-column	190–1800	66	2970
	2000–2200	59	2655
	2500–3000	30	1350
4-column	190–1200	66	2970
	1500–1800	54	2430
	2000–2200	44	1980
	2500–3000	30	1350
5-column	180–1000	66	2970
	1100–1200	44	1980
	1500–2500	30	1350
	2800–3000	26	1170
6-column	180–900	66	2970
	1000	58	2610
	1100–1200	44	1980
	1500–2000	30	1350
	2200–3000	22	990

A delivery in several blocks/parts with order number is not possible. However, these can still be ordered unconfigured in the usual way.

✂ In addition to the size restrictions, the valve performance limits must be observed for the version with built-in valve RRV. These are marked with this symbol in the price list.

ARBONIA COLUMN RADIATORS: STANDARD COLUMN RADIATORS



In the following section,
you will find:

- General, tender specifications
- Description
- Technical data
- Prices and outputs
- Connection options and dimensional drawing
- Air vent and drain



COLUMN RADIATORS

The customised compact radiator. You have made a good choice when you decide to install Arbonia column radiators. These beautiful, top quality, state-of-the-art products provide the comfort that a discerning developer expects: More comfort thanks to the ideal distribution of the heat through radiation and convection, more options thanks to the wide range of radiator dimensions available, but also more safety (complies with statutory accident insurance conditions), as they have no corners or sharp edges.

This is a valuable advantage, particularly in children's bedrooms or in schools. Arbonia column radiators are also greatly appreciated in homes, public buildings, institutions, etc. because they are very easy to clean.

Special features:

- A classic and timeless design
- Top in quality and comfort
- A uniquely large variety of models
- Powerful and comfortable
- High accident safety (compliant with statutory accident insurance)
- Safe and easy to install in accordance with VDI 6036

TENDER SPECIFICATIONS

Arbonia standard column radiators

2–6 columns made of steel; individual elements (length 45 mm) as a welded assembly, consisting of head pieces (band steel pressings) and round precision steel pipes. Blocks welded together from elements up to the maximum length of the delivery unit.

Ready to install with 4 threaded plugs for flow and return as well as for air vent and drain. Edges rounded on all sides with $R_{\min} = 2$ mm.

Coating according to DIN 55900 part 1 and part 2.

Design features comply with the basic principles for the testing of the occupational safety of radiators (statutory accident insurance).

Awarded for compliance with demanding hygiene requirements by a laboratory for microbiology and hygiene.

Pressure and leak tested.

Heat output tested and registered in accordance with EN 442.

Awarded with the RAL quality mark.

CE-compliant.

Suitable for closed water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permissible operating temperature: 110 °C

Max. operating pressure:

2–6 columns 10 bar / 1000 kPa

2–6 columns 16 bar / 1600 kPa (high-pressure version)

Packed safely for transport.

RANGE AVAILABLE

- 5 depths: 65–225 mm (2–6 columns)
- 21 heights: 180–3000 mm
- Length:
 - Calculation: number of elements x 45 mm
 - Length gradation: 45 mm (1 element)
 - Minimum length: 270 mm (6 elements)
 - Maximum length per block: 450–2970 mm (depending on depth and height)
 - Maximum total length: 3 blocks (to be coupled on site, high-pressure version: 1 block)
- 2-pipe connections, at side
- Can be installed as a bench

For column radiators with connections on the same side, starting from a certain length and height, an insert pipe will also be supplied at an extra charge in order to guarantee proper water circulation.

MAXIMUM LENGTH

For reasons of weight and transport, column radiators can only be shipped from the factory as a single piece up to a maximum length. If the maximum length is exceeded in a single piece, then the column radiators will be delivered in several blocks (see price tables).

These blocks will have to be coupled together on site, or if necessary at the factory. The overall length for column radiators is limited to three blocks.

Column radiators in the high-pressure version cannot be coupled. The overall length for the high-pressure version is thus limited to the maximum number of elements per block.



General information

Model
standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
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COLUMN RADIATORS

The customised compact radiator. You have made a good choice when you decide to install Arbonia column radiators. These beautiful, top quality, state-of-the-art products provide the comfort that a discerning developer expects: More comfort thanks to the ideal distribution of the heat through radiation and convection, more options thanks to the wide range of radiator dimensions available, but also more safety (complies with statutory accident insurance conditions), as they have no corners or sharp edges.

This is a valuable advantage, particularly in children's bedrooms or in schools. Arbonia column radiators are also greatly appreciated in homes, public buildings, institutions, etc. because they are very easy to clean.

Special features:

- Increased efficiency thanks to preset valves
- A classic and timeless design
- Top in quality and comfort
- A uniquely large variety of models
- Powerful and comfortable
- High accident safety (compliant with statutory accident insurance)
- Safe and easy to install in accordance with VDI 6036

TENDER SPECIFICATIONS

Arbonia standard column radiators with built-in valve

2–6 columns made of steel; individual elements (length 45 mm) as a welded assembly, consisting of head pieces (band steel pressings) and round precision steel pipes. Blocks welded together from elements up to the maximum length of the delivery unit.

With integrated, adjustable valve insert. The kv_value is preset at the factory and adjusted to the heat output.

Ready to install with connections for flow and return as well as for air vent. Connection for drain optional. Edges rounded on all sides with $R_{min} = 2$ mm.

Coating according to DIN 55900 part 1 and part 2.

Design features comply with the basic principles for the testing of the occupational safety of radiators (statutory accident insurance).

Awarded for compliance with demanding hygiene requirements by a laboratory for microbiology and hygiene.

Pressure and leak tested.

Heat output tested and registered in accordance with EN 442.

Awarded with the RAL quality mark.

CE-compliant.

Suitable for closed water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permissible operating temperature: 110 °C

Max. operating pressure:

2–6 columns 10 bar / 1000 kPa

Packed safely for transport.

RANGE AVAILABLE

- 5 depths: 65–225 mm (2–6 columns)
- 21 heights: 180–3000 mm
- Length:
 - Calculation: number of elements x 45 mm
 - Length gradation: 45 mm (1 element)
 - Minimum length: 270 mm (6 elements)
 - Maximum length see paragraph "Maximum length"
- Can be installed as a bench
- Factory kv-preset built-in valve, arranged at top or bottom, right or left
- Standard connection:
 - 2-pipe connection at bottom or top, on same side (on the side of the valve) with hub distance 50 mm
 - Connection size: G 1/2" internal thread
 - Flow welded into the 1st element, return into the 2nd element
 - For the version with valve arranged at the bottom, two air vents are provided
- Thermostatic sensor head is not included in the scope of delivery and must be ordered as an accessory
- Not available in high-pressure version

MAXIMUM LENGTH

For reasons of weight and transport, column radiators can only be shipped from the factory as a single piece up to a maximum length. If the maximum length is exceeded in a single piece, the column radiators will be delivered in several blocks. (see price tables)

These blocks will have to be coupled together on site, or if necessary at the factory. The overall length for column radiators is limited to three blocks.

Column radiators in the high-pressure version cannot be coupled. The overall length for the high-pressure version is thus limited to the maximum number of elements per block.



TECHNICAL DATA AND PRICE PER ELEMENT – HEIGHT 180–500 MM

Height H C	Depth T C	Model	Heat output EN 442				Exponent n []	Ø Mass per element M [kg/el.]	Surface per element A [m²/el.]	Water content per element W [l/el.]	Standard water flow q _m [kg/h el.]	Radiation component s [%]	Price per element [EUR/el.]
			Φ ΔT 60 K 90/70/20 °C [watt/el.]	Φ _L ΔT 50 K 75/65/20 °C [watt/el.]	Φ ΔT 42 70/55/20 °C [watt/el.]	Φ ΔT 30 K 55/45/20 °C [watt/el.]							
180	185	5018	40	32	26	16	1.29	0.89	0.08	0.62	2.5	30	39.94
	225	6018	49	39	31	20	1.31	1.08	0.10	0.74	2.8	27	46.21
190	65	2019	18	15	12	8	1.23	0.33	0.03	0.28	1.2	49	26.68
	105	3019	25	20	16	11	1.27	0.50	0.05	0.40	1.7	38	28.49
260	145	4019	33	27	22	14	1.25	0.66	0.07	0.52	2.2	33	32.26
	65	2026	25	20	16	11	1.25	0.42	0.04	0.34	1.6	49	27.44
300	105	3026	35	28	22	14	1.31	0.63	0.07	0.48	2.2	38	29.50
	145	4026	46	36	29	19	1.30	0.84	0.09	0.63	2.8	33	32.93
350	185	5026	56	45	36	22	1.33	1.11	0.11	0.78	3.6	30	40.11
	225	6026	67	53	42	26	1.36	1.34	0.13	0.93	4.0	27	46.74
400	65	2030	30	24	19	12	1.26	0.47	0.05	0.37	1.9	49	27.92
	105	3030	41	33	26	16	1.33	0.70	0.08	0.53	2.7	38	30.31
450	145	4030	54	43	34	21	1.33	0.93	0.10	0.69	3.4	33	33.52
	185	5030	67	53	42	26	1.36	1.23	0.13	0.86	4.1	30	40.05
500	225	6030	79	62	49	30	1.39	1.49	0.15	1.02	4.9	27	46.79
	65	2035	35	28	22	14	1.31	0.53	0.06	0.41	2.2	49	28.45
550	105	3035	48	38	30	19	1.36	0.79	0.09	0.59	3.1	38	31.19
	145	4035	63	49	39	25	1.35	1.06	0.12	0.77	4.0	33	34.69
600	185	5035	78	61	48	30	1.39	1.38	0.15	0.96	4.8	30	40.86
	225	6035	92	72	56	34	1.41	1.67	0.18	1.14	5.7	27	48.10
650	65	2040	40	31	25	16	1.31	0.59	0.07	0.45	2.4	49	28.71
	105	3040	55	43	34	21	1.36	0.88	0.10	0.65	3.5	38	32.26
700	145	4040	71	56	44	28	1.35	1.18	0.13	0.85	4.5	33	35.37
	185	5040	88	69	55	34	1.39	1.53	0.17	1.06	5.5	30	42.13
750	225	6040	104	81	64	39	1.41	1.85	0.20	1.26	6.5	27	49.58
	65	2045	44	35	28	18	1.31	0.65	0.07	0.49	2.8	49	29.47
800	105	3045	61	48	38	24	1.36	0.97	0.11	0.71	4.0	38	33.05
	145	4045	79	62	50	31	1.35	1.30	0.15	0.93	5.0	33	36.85
850	185	5045	98	77	61	37	1.39	1.68	0.19	1.16	6.2	30	44.03
	225	6045	115	90	71	43	1.41	2.03	0.22	1.38	7.2	27	51.43
900	65	2050	49	39	31	20	1.31	0.71	0.08	0.53	3.2	49	30.27
	105	3050	68	53	42	26	1.36	1.06	0.12	0.77	4.4	38	34.07
950	145	4050	87	69	55	34	1.35	1.42	0.17	1.01	5.6	33	37.95
	185	5050	108	85	67	41	1.39	1.83	0.21	1.26	6.9	30	44.87
1000	225	6050	127	99	78	48	1.41	2.21	0.25	1.50	8.1	27	52.79


TECHNICAL DATA AND PRICE PER ELEMENT – HEIGHT 550–1200 MM

Height H C	Depth T C	Model	Heat output EN 442				Exponent n []	Ø Mass per element M [kg/el.]	Surface per element A [m²/el.]	Water content per element W [l/el.]	Standard water flow qm [kg/h el.]	Radiation component s [%]	Price per element [EUR/el.]
			Φ ΔT 60 K 90/70/20 °C [watt/el.]	Φ _v ΔT 50 K 75/65/20 °C [watt/el.]	Φ ΔT 42 70/55/20 °C [watt/el.]	Φ ΔT 30 K 55/45/20 °C [watt/el.]							
550	65	2055	53	42	34	21	1.31	0.77	0.09	0.57	3.5	49	30.77
	105	3055	74	58	46	29	1.36	1.16	0.14	0.83	4.7	38	35.06
	145	4055	95	75	60	37	1.35	1.54	0.18	1.09	6.1	33	39.58
	185	5055	118	93	73	45	1.39	1.99	0.23	1.36	7.5	30	46.50
	225	6055	138	108	85	52	1.41	2.40	0.27	1.62	8.9	27	55.27
600	65	2060	58	46	37	23	1.31	0.83	0.10	0.61	3.8	49	31.68
	105	3060	80	63	50	31	1.36	1.25	0.15	0.89	5.2	38	36.17
	145	4060	103	81	64	40	1.35	1.66	0.20	1.17	6.6	33	40.95
	185	5060	128	100	79	49	1.39	2.14	0.25	1.45	8.2	30	48.60
	225	6060	150	117	92	56	1.41	2.58	0.29	1.74	9.7	27	57.31
750	65	2075	71	57	45	29	1.31	1.02	0.12	0.73	4.7	49	32.99
	105	3075	99	78	62	39	1.36	1.52	0.18	1.07	6.5	38	38.80
	145	4075	126	100	79	50	1.35	2.03	0.24	1.41	8.2	33	46.50
	185	5075	157	123	97	60	1.39	2.59	0.30	1.75	10.1	30	55.94
	225	6075	183	143	113	69	1.40	3.12	0.37	2.10	11.8	27	65.31
900	65	2090	84	67	54	34	1.31	1.20	0.15	0.84	5.8	49	35.15
	105	3090	117	92	73	46	1.36	1.79	0.22	1.25	7.7	38	41.77
	145	4090	148	117	93	58	1.35	2.39	0.29	1.65	9.6	33	53.62
	185	5090	184	144	114	70	1.39	3.05	0.36	2.05	11.9	30	63.46
	225	6090	215	168	132	81	1.40	3.67	0.44	2.45	14.0	27	73.46
1000	65	2100	93	74	59	37	1.32	1.32	0.16	0.92	6.3	49	36.76
	105	3100	130	102	81	51	1.36	1.98	0.24	1.37	8.4	38	43.80
	145	4100	164	129	103	64	1.35	2.63	0.32	1.81	10.7	33	57.93
	185	5100	202	158	125	77	1.38	3.35	0.40	2.25	13.0	30	67.65
	225	6100	237	185	146	90	1.40	4.03	0.48	2.69	15.5	27	79.20
1100	65	2110	102	81	65	41	1.32	1.44	0.18	1.00	6.9	49	38.20
	105	3110	141	111	88	55	1.35	2.16	0.27	1.49	9.2	38	49.16
	145	4110	179	141	112	70	1.35	2.88	0.35	1.97	11.6	33	64.02
	185	5110	219	172	136	84	1.38	3.65	0.44	2.45	14.2	30	78.49
	225	6110	257	201	158	97	1.40	4.40	0.53	2.93	16.9	27	93.39
1200	65	2120	111	88	70	44	1.32	1.56	0.19	1.08	7.4	49	40.78
	105	3120	152	120	95	60	1.35	2.34	0.29	1.60	10.0	38	57.48
	145	4120	193	152	121	76	1.35	3.12	0.38	2.13	12.6	33	72.32
	185	5120	237	186	147	91	1.38	3.96	0.48	2.65	15.4	30	90.83
	225	6120	278	217	171	105	1.40	4.76	0.58	3.17	18.0	27	105.81

General information

 Model
standard column radiators

 Model
Sano radiators

 Model
Cambiotherm

 Model
Bench radiators

Arbonia Individual

 Fixing and
dimensional drawings

Accessories

 Further
information



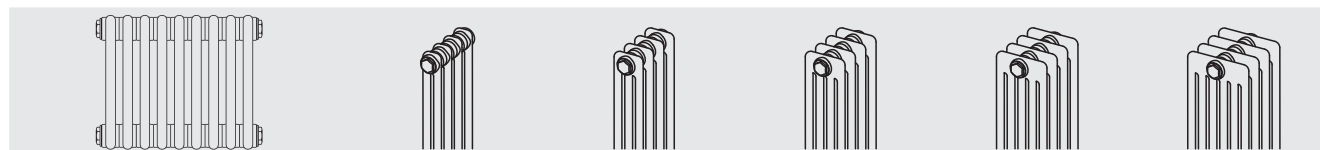
TECHNICAL DATA AND PRICE PER ELEMENT – HEIGHT 1500–3000 MM

Height H C	Depth T C	Model	Heat output EN 442				Exponent n []	Ø Mass per element M [kg/el.]	Surface per element A [m²/el.]	Water content per element W [l/el.]	Standard water flow q _m [kg/h el.]	Radiation component s [%]	Price per element [EUR/el.]
			Φ ΔT 60 K 90/70/20 °C [watt/el.]	Φ _L ΔT 50 K 75/65/20 °C [watt/el.]	Φ ΔT 42 70/55/20 °C [watt/el.]	Φ ΔT 30 K 55/45/20 °C [watt/el.]							
1500	65	2150	138	109	87	55	1.32	1.93	0.24	1.32	9.1	49	52.17
	105	3150	187	147	117	73	1.35	2.89	0.36	1.96	12.3	38	74.56
	145	4150	236	186	148	93	1.35	3.85	0.48	2.60	15.5	33	97.43
	185	5150	286	225	178	111	1.37	4.87	0.60	3.24	18.5	30	122.00
	225	6150	338	264	208	128	1.40	5.85	0.72	3.88	21.5	27	145.34
1800	65	2180	164	130	104	66	1.32	2.29	0.29	1.56	10.8	49	61.66
	105	3180	219	173	138	86	1.35	3.43	0.43	2.32	14.6	38	91.97
	145	4180	277	219	174	110	1.34	4.58	0.57	3.08	18.4	33	117.06
	185	5180	335	263	208	130	1.37	5.78	0.72	3.84	22.0	30	143.52
	225	6180	395	309	244	151	1.39	6.95	0.86	4.60	25.5	27	170.44
2000	65	2200	182	144	115	73	1.32	2.53	0.32	1.72	12.0	49	69.01
	105	3200	241	190	151	95	1.34	3.80	0.48	2.56	16.3	38	98.56
	145	4200	305	241	192	121	1.34	5.06	0.64	3.40	20.4	33	129.66
	185	5200	365	287	227	141	1.37	6.38	0.80	4.24	24.3	30	158.69
	225	6200	433	339	268	165	1.39	7.67	0.95	5.08	28.4	27	187.94
2200	65	2220	199	158	126	80	1.32	2.78	0.35	1.88	13.2	49	77.45
	105	3220	262	207	165	104	1.34	4.16	0.52	2.80	17.9	38	112.23
	145	4220	332	262	209	131	1.34	5.55	0.70	3.72	22.4	33	145.69
	185	5220	394	310	246	153	1.36	6.99	0.87	4.64	26.5	30	178.43
	225	6220	469	367	290	179	1.39	8.40	1.05	5.55	31.0	27	211.70
2500	65	2250	226	179	143	90	1.32	3.14	0.40	2.12	15.0	49	85.88
	105	3250	293	231	184	116	1.34	4.71	0.59	3.16	20.3	38	125.89
	145	4250	371	293	233	147	1.34	6.27	0.79	4.19	25.4	33	161.92
	185	5250	436	343	272	170	1.36	7.90	0.99	5.23	29.8	30	198.01
	225	6250	521	408	322	199	1.39	9.49	1.19	6.27	34.7	27	235.66
2800	65	2280	253	200	160	101	1.33	3.50	0.44	2.36	16.8	49	96.65
	105	3280	323	255	203	128	1.34	5.25	0.67	3.51	22.5	38	140.21
	145	4280	409	323	257	162	1.34	7.00	0.89	4.67	28.2	33	183.19
	185	5280	474	374	297	186	1.35	8.81	1.11	5.83	33.1	30	220.17
	225	6280	571	448	354	220	1.38	10.59	1.33	6.99	38.6	27	264.68
3000	65	2300	271	214	171	108	1.33	3.75	0.48	2.51	17.9	49	103.26
	105	3300	341	270	215	136	1.33	5.62	0.71	3.75	24.0	38	151.78
	145	4300	434	343	273	172	1.34	7.49	0.95	4.99	30.1	33	196.14
	185	5300	500	394	313	196	1.35	9.42	1.19	6.23	35.3	30	235.66
	225	6300	605	474	375	232	1.38	11.31	1.43	7.46	41.3	27	281.81



PRICES AND OUTPUTS – HEIGHT 180–190 MM

with heat outputs depending on length and depth



Model	2019	3019	4019	5018	6018
Order number	RRN20019...2.XA	RRN30019...2.XA	RRN40019...2.XA	RRN50018...2.XA	RRN60018...2.XA
Height H [mm]	190	190	190	180	180
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.33	0.50	0.66	0.89	1.08
Exponent n []	1.2300	1.2700	1.2500	1.2900	1.3100
Standard heat output Φ_s [watts/el.]	15	20	27	32	39
Price per element [EUR/el.]	26.68	28.49	32.26	39.94	46.21

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]
270	6	87	160.08	122	170.94	160	193.56	191	239.64	232	277.26
360	8	116	213.44	162	227.92	214	258.08	254	319.52	310	369.68
450	10	145	266.80	203	284.90	267	322.60	318	399.40	387	462.10
540	12	174	320.16	244	341.88	320	387.12	382	479.28	464	554.52
630	14	203	373.52	284	398.86	374	451.64	445	559.16	542	646.94
720	16	232	426.88	325	455.84	427	516.16	509	639.04	619	739.36
810	18	261	480.24	365	512.82	481	580.68	572	718.92	697	831.78
900	20	290	533.60	406	569.80	534	645.20	636	798.80	774	924.20
990	22	319	586.96	447	626.78	587	709.72	700	878.68	851	1016.62
1080	24	348	640.32	487	683.76	641	774.24	763	958.56	929	1109.04
1170	26	377	693.68	528	740.74	694	838.76	827	1038.44	1006	1201.46
1260	28	406	747.04	568	797.72	748	903.28	890	1118.32	1084	1293.88
1350	30	435	800.40	609	854.70	801	967.80	954	1198.20	1161	1386.30
1440	32	464	853.76	650	911.68	854	1032.32	1018	1278.08	1238	1478.72
1530	34	493	907.12	690	968.66	908	1096.84	1081	1357.96	1316	1571.14
1620	36	522	960.48	731	1025.64	961	1161.36	1145	1437.84	1393	1663.56
1710	38	551	1013.84	771	1082.62	1015	1225.88	1208	1517.72	1471	1755.98
1800	40	580	1067.20	812	1139.60	1068	1290.40	1272	1597.60	1548	1848.40
1890	42	609	1120.56	853	1196.58	1121	1354.92	1336	1677.48	1625	1940.82
1980	44	638	1173.92	893	1253.56	1175	1419.44	1399	1757.36	1703	2033.24
2070	46	667	1227.28	934	1310.54	1228	1483.96	1463	1837.24	1780	2125.66
2160	48	696	1280.64	974	1367.52	1282	1548.48	1526	1917.12	1858	2218.08
2250	50	725	1334.00	1015	1424.50	1335	1613.00	1590	1997.00	1935	2310.50
2340	52	754	1387.36	1056	1481.48	1388	1677.52	1654	2076.88	2012	2402.92
2430	54	783	1440.72	1096	1538.46	1442	1742.04	1717	2156.76	2090	2495.34
2520	56	812	1494.08	1137	1595.44	1495	1806.56	1781	2236.64	2167	2587.76
2610	58	841	1547.44	1177	1652.42	1549	1871.08	1844	2316.52	2245	2680.18
2700	60	870	1600.80	1218	1709.40	1602	1935.60	1908	2396.40	2322	2772.60

Maximum number of elements per block	66	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 260 MM

with heat outputs depending on length and depth



Model	2026	3026	4026	5026	6026
Order number	RRN20026...2.XA	RRN30026...2.XA	RRN40026...2.XA	RRN50026...2.XA	RRN60026...2.XA
Height H [mm]	260	260	260	260	260
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.42	0.63	0.84	1.11	1.34
Exponent n []	1.2500	1.3100	1.3000	1.3300	1.3600
Standard heat output Φ_s [watts/el.]	20	28	36	45	53
Price per element [EUR/el.]	27.44	29.50	32.93	40.11	46.74

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]
270	6	122	164.64	167	177.00	218	197.58	267	240.66	316	280.44
360	8	162	219.52	222	236.00	290	263.44	356	320.88	422	373.92
450	10	203	274.40	278	295.00	363	329.30	445	401.10	527	467.40
540	12	244	329.28	334	354.00	436	395.16	534	481.32	632	560.88
630	14	284	384.16	389	413.00	508	461.02	623	561.54	738	654.36
720	16	325	439.04	445	472.00	581	526.88	712	641.76	843	747.84
810	18	365	493.92	500	531.00	653	592.74	801	721.98	949	841.32
900	20	406	548.80	556	590.00	726	658.60	890	802.20	1054	934.80
990	22	447	603.68	612	649.00	799	724.46	979	882.42	1159	1028.28
1080	24	487	658.56	667	708.00	871	790.32	1068	962.64	1265	1121.76
1170	26	528	713.44	723	767.00	944	856.18	1157	1042.86	1370	1215.24
1260	28	568	768.32	778	826.00	1016	922.04	1246	1123.08	1476	1308.72
1350	30	609	823.20	834	885.00	1089	987.90	1335	1203.30	1581	1402.20
1440	32	650	878.08	890	944.00	1162	1053.76	1424	1283.52	1686	1495.68
1530	34	690	932.96	945	1003.00	1234	1119.62	1513	1363.74	1792	1589.16
1620	36	731	987.84	1001	1062.00	1307	1185.48	1602	1443.96	1897	1682.64
1710	38	771	1042.72	1056	1121.00	1379	1251.34	1691	1524.18	2003	1776.12
1800	40	812	1097.60	1112	1180.00	1452	1317.20	1780	1604.40	2108	1869.60
1890	42	853	1152.48	1168	1239.00	1525	1383.06	1869	1684.62	2213	1963.08
1980	44	893	1207.36	1223	1298.00	1597	1448.92	1958	1764.84	2319	2056.56
2070	46	934	1262.24	1279	1357.00	1670	1514.78	2047	1845.06	2424	2150.04
2160	48	974	1317.12	1334	1416.00	1742	1580.64	2136	1925.28	2530	2243.52
2250	50	1015	1372.00	1390	1475.00	1815	1646.50	2225	2005.50	2635	2337.00
2340	52	1056	1426.88	1446	1534.00	1888	1712.36	2314	2085.72	2740	2430.48
2430	54	1096	1481.76	1501	1593.00	1960	1778.22	2403	2165.94	2846	2523.96
2520	56	1137	1536.64	1557	1652.00	2033	1844.08	2492	2246.16	2951	2617.44
2610	58	1177	1591.52	1612	1711.00	2105	1909.94	2581	2326.38	3057	2710.92
2700	60	1218	1646.40	1668	1770.00	2178	1975.80	2670	2406.60	3162	2804.40

Maximum number of elements per block	66	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

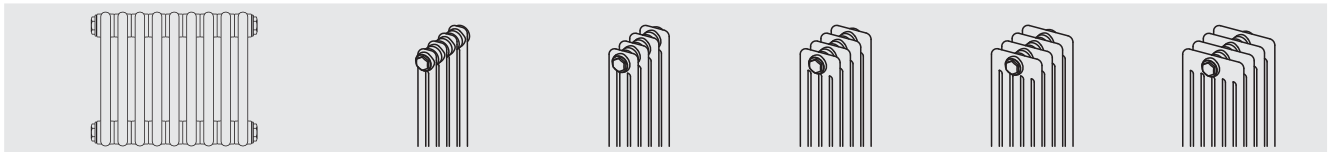
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	Valve on side at bottom 69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 300 MM

with heat outputs depending on length and depth



Model	2030	3030	4030	5030	6030
Order number	RRN20030...2.XA	RRN30030...2.XA	RRN40030...2.XA	RRN50030...2.XA	RRN60030...2.XA
Height H [mm]	300	300	300	300	300
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.47	0.70	0.93	1.23	1.49
Exponent n []	1.2600	1.3300	1.3300	1.3600	1.3900
Standard heat output Φ_s [watts/el.]	24	33	43	53	62
Price per element [EUR/el.]	27.92	30.31	33.52	40.05	46.79

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	143	167.52	196	181.86	256	201.12	316	240.30	372	280.74
360	8	191	223.36	262	242.48	342	268.16	422	320.40	496	374.32
450	10	239	279.20	327	303.10	427	335.20	527	400.50	620	467.90
540	12	287	335.04	392	363.72	512	402.24	632	480.60	744	561.48
630	14	335	390.88	458	424.34	598	469.28	738	560.70	868	655.06
720	16	382	446.72	523	484.96	683	536.32	843	640.80	992	748.64
810	18	430	502.56	589	545.58	769	603.36	949	720.90	1116	842.22
900	20	478	558.40	654	606.20	854	670.40	1054	801.00	1240	935.80
990	22	526	614.24	719	666.82	939	737.44	1159	881.10	1364	1029.38
1080	24	574	670.08	785	727.44	1025	804.48	1265	961.20	1488	1122.96
1170	26	621	725.92	850	788.06	1110	871.52	1370	1041.30	1612	1216.54
1260	28	669	781.76	916	848.68	1196	938.56	1476	1121.40	1736	1310.12
1350	30	717	837.60	981	909.30	1281	1005.60	1581	1201.50	1860	1403.70
1440	32	765	893.44	1046	969.92	1366	1072.64	1686	1281.60	1984	1497.28
1530	34	813	949.28	1112	1030.54	1452	1139.68	1792	1361.70	2108	1590.86
1620	36	860	1005.12	1177	1091.16	1537	1206.72	1897	1441.80	2232	1684.44
1710	38	908	1060.96	1243	1151.78	1623	1273.76	2003	1521.90	2356	1778.02
1800	40	956	1116.80	1308	1212.40	1708	1340.80	2108	1602.00	2480	1871.60
1890	42	1004	1172.64	1373	1273.02	1793	1407.84	2213	1682.10	2604	1965.18
1980	44	1052	1228.48	1439	1333.64	1879	1474.88	2319	1762.20	2728	2058.76
2070	46	1099	1284.32	1504	1394.26	1964	1541.92	2424	1842.30	2852	2152.34
2160	48	1147	1340.16	1570	1454.88	2050	1608.96	2530	1922.40	2976	2245.92
2250	50	1195	1396.00	1635	1515.50	2135	1676.00	2635	2002.50	3100	2339.50
2340	52	1243	1451.84	1700	1576.12	2220	1743.04	2740	2082.60	3224	2433.08
2430	54	1291	1507.68	1766	1636.74	2306	1810.08	2846	2162.70	3348	2526.66
2520	56	1338	1563.52	1831	1697.36	2391	1877.12	2951	2242.80	3472	2620.24
2610	58	1386	1619.36	1897	1757.98	2477	1944.16	3057	2322.90	3596	2713.82
2700	60	1434	1675.20	1962	1818.60	2562	2011.20	3162	2403.00	3720	2807.40

Maximum number of elements per block	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 350 MM

with heat outputs depending on length and depth



Model	2035	3035	4035	5035	6035
Order number	RRN20035...2.XA	RRN30035...2.XA	RRN40035...2.XA	RRN50035...2.XA	RRN60035...2.XA
Height H [mm]	350	350	350	350	350
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.53	0.79	1.06	1.38	1.67
Exponent n []	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s [watts/el.]	28	38	49	61	72
Price per element [EUR/el.]	28.45	31.19	34.69	40.86	48.10

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	166	170.70	228	187.14	296	208.14	366	245.16	429	288.60
360	8	222	227.60	304	249.52	395	277.52	488	326.88	572	384.80
450	10	277	284.50	380	311.90	494	346.90	610	408.60	715	481.00
540	12	332	341.40	456	374.28	593	416.28	732	490.32	858	577.20
630	14	388	398.30	532	436.66	692	485.66	854	572.04	1001	673.40
720	16	443	455.20	608	499.04	790	555.04	976	653.76	1144	769.60
810	18	499	512.10	684	561.42	889	624.42	1098	735.48	1287	865.80
900	20	554	569.00	760	623.80	988	693.80	1220	817.20	1430	962.00
990	22	609	625.90	836	686.18	1087	763.18	1342	898.92	1573	1058.20
1080	24	665	682.80	912	748.56	1186	832.56	1464	980.64	1716	1154.40
1170	26	720	739.70	988	810.94	1284	901.94	1586	1062.36	1859	1250.60
1260	28	776	796.60	1064	873.32	1383	971.32	1708	1144.08	2002	1346.80
1350	30	831	853.50	1140	935.70	1482	1040.70	1830	1225.80	2145	1443.00
1440	32	886	910.40	1216	998.08	1581	1110.08	1952	1307.52	2288	1539.20
1530	34	942	967.30	1292	1060.46	1680	1179.46	2074	1389.24	2431	1635.40
1620	36	997	1024.20	1368	1122.84	1778	1248.84	2196	1470.96	2574	1731.60
1710	38	1053	1081.10	1444	1185.22	1877	1318.22	2318	1552.68	2717	1827.80
1800	40	1108	1138.00	1520	1247.60	1976	1387.60	2440	1634.40	2860	1924.00
1890	42	1163	1194.90	1596	1309.98	2075	1456.98	2562	1716.12	3003	2020.20
1980	44	1219	1251.80	1672	1372.36	2174	1526.36	2684	1797.84	3146	2116.40
2070	46	1274	1308.70	1748	1434.74	2272	1595.74	2806	1879.56	3289	2212.60
2160	48	1330	1365.60	1824	1497.12	2371	1665.12	2928	1961.28	3432	2308.80
2250	50	1385	1422.50	1900	1559.50	2470	1734.50	3050	2043.00	3575	2405.00
2340	52	1440	1479.40	1976	1621.88	2569	1803.88	3172	2124.72	3718	2501.20
2430	54	1496	1536.30	2052	1684.26	2668	1873.26	3294	2206.44	3861	2597.40
2520	56	1551	1593.20	2128	1746.64	2766	1942.64	3416	2288.16	4004	2693.60
2610	58	1607	1650.10	2204	1809.02	2865	2012.02	3538	2369.88	4147	2789.80
2700	60	1662	1707.00	2280	1871.40	2964	2081.40	3660	2451.60	4290	2886.00

Maximum number of elements per block	66	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

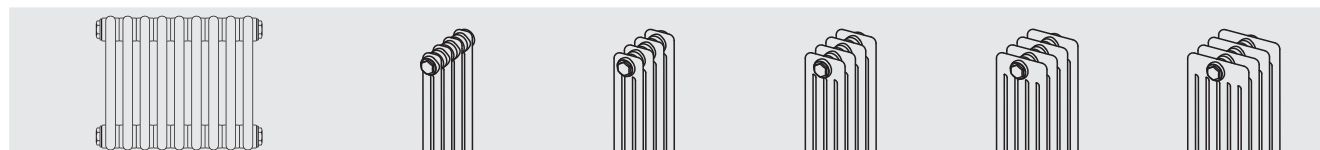
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	Valve on side at bottom 96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 400 MM

with heat outputs depending on length and depth



Model	2040	3040	4040	5040	6040
Order number	RRN20040...2.XA	RRN30040...2.XA	RRN40040...2.XA	RRN50040...2.XA	RRN60040...2.XA
Height H [mm]	400	400	400	400	400
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.59	0.88	1.18	1.53	1.85
Exponent n []	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s [watts/el.]	31	43	56	69	81
Price per element [EUR/el.]	28.71	32.26	35.37	42.13	49.58

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	188	172.26	259	193.56	335	212.22	414	252.78	485	297.48
360	8	251	229.68	345	258.08	447	282.96	552	337.04	646	396.64
450	10	314	287.10	431	322.60	559	353.70	690	421.30	808	495.80
540	12	377	344.52	517	387.12	671	424.44	828	505.56	970	594.96
630	14	440	401.94	603	451.64	783	495.18	966	589.82	1131	694.12
720	16	502	459.36	690	516.16	894	565.92	1104	674.08	1293	793.28
810	18	565	516.78	776	580.68	1006	636.66	1242	758.34	1454	892.44
900	20	628	574.20	862	645.20	1118	707.40	1380	842.60	1616	991.60
990	22	691	631.62	948	709.72	1230	778.14	1518	926.86	1778	1090.76
1080	24	754	689.04	1034	774.24	1342	848.88	1656	1011.12	1939	1189.92
1170	26	816	746.46	1121	838.76	1453	919.62	1794	1095.38	2101	1289.08
1260	28	879	803.88	1207	903.28	1565	990.36	1932	1179.64	2262	1388.24
1350	30	942	861.30	1293	967.80	1677	1061.10	2070	1263.90	2424	1487.40
1440	32	1005	918.72	1379	1032.32	1789	1131.84	2208	1348.16	2586	1586.56
1530	34	1068	976.14	1465	1096.84	1901	1202.58	2346	1432.42	2747	1685.72
1620	36	1130	1033.56	1552	1161.36	2012	1273.32	2484	1516.68	2909	1784.88
1710	38	1193	1090.98	1638	1225.88	2124	1344.06	2622	1600.94	3070	1884.04
1800	40	1256	1148.40	1724	1290.40	2236	1414.80	2760	1685.20	3232	1983.20
1890	42	1319	1205.82	1810	1354.92	2348	1485.54	2898	1769.46	3394	2082.36
1980	44	1382	1263.24	1896	1419.44	2460	1556.28	3036	1853.72	3555	2181.52
2070	46	1444	1320.66	1983	1483.96	2571	1627.02	3174	1937.98	3717	2280.68
2160	48	1507	1378.08	2069	1548.48	2683	1697.76	3312	2022.24	3878	2379.84
2250	50	1570	1435.50	2155	1613.00	2795	1768.50	3450	2106.50	4040	2479.00
2340	52	1633	1492.92	2241	1677.52	2907	1839.24	3588	2190.76	4202	2578.16
2430	54	1696	1550.34	2327	1742.04	3019	1909.98	3726	2275.02	4363	2677.32
2520	56	1758	1607.76	2414	1806.56	3130	1980.72	3864	2359.28	4525	2776.48
2610	58	1821	1665.18	2500	1871.08	3242	2051.46	4002	2443.54	4686	2875.64
2700	60	1884	1722.60	2586	1935.60	3354	2122.20	4140	2527.80	4848	2974.80

Maximum number of elements per block	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 450 MM

with heat outputs depending on length and depth



Model	2045	3045	4045	5045	6045
Order number	RRN20045...2.XA	RRN30045...2.XA	RRN40045...2.XA	RRN50045...2.XA	RRN60045...2.XA
Height H [mm]	450	450	450	450	450
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.65	0.97	1.30	1.68	2.03
Exponent n []	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s [watts/el.]	35	48	62	77	90
Price per element [EUR/el.]	29.47	33.05	36.85	44.03	51.43

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	210	176.82	289	198.30	374	221.10	461	264.18	540	308.58
360	8	280	235.76	386	264.40	498	294.80	615	352.24	720	411.44
450	10	350	294.70	482	330.50	623	368.50	769	440.30	900	514.30
540	12	420	353.64	578	396.60	748	442.20	923	528.36	1080	617.16
630	14	490	412.58	675	462.70	872	515.90	1077	616.42	1260	720.02
720	16	560	471.52	771	528.80	997	589.60	1230	704.48	1440	822.88
810	18	630	530.46	868	594.90	1121	663.30	1384	792.54	1620	925.74
900	20	700	589.40	964	661.00	1246	737.00	1538	880.60	1800	1028.60
990	22	770	648.34	1060	727.10	1371	810.70	1692	968.66	1980	1131.46
1080	24	840	707.28	1157	793.20	1495	884.40	1846	1056.72	2160	1234.32
1170	26	910	766.22	1253	859.30	1620	958.10	1999	1144.78	2340	1337.18
1260	28	980	825.16	1350	925.40	1744	1031.80	2153	1232.84	2520	1440.04
1350	30	1050	884.10	1446	991.50	1869	1105.50	2307	1320.90	2700	1542.90
1440	32	1120	943.04	1542	1057.60	1994	1179.20	2461	1408.96	2880	1645.76
1530	34	1190	1001.98	1639	1123.70	2118	1252.90	2615	1497.02	3060	1748.62
1620	36	1260	1060.92	1735	1189.80	2243	1326.60	2768	1585.08	3240	1851.48
1710	38	1330	1119.86	1832	1255.90	2367	1400.30	2922	1673.14	3420	1954.34
1800	40	1400	1178.80	1928	1322.00	2492	1474.00	3076	1761.20	3600	2057.20
1890	42	1470	1237.74	2024	1388.10	2617	1547.70	3230	1849.26	3780	2160.06
1980	44	1540	1296.68	2121	1454.20	2741	1621.40	3384	1937.32	3960	2262.92
2070	46	1610	1355.62	2217	1520.30	2866	1695.10	3537	2025.38	4140	2365.78
2160	48	1680	1414.56	2314	1586.40	2990	1768.80	3691	2113.44	4320	2468.64
2250	50	1750	1473.50	2410	1652.50	3115	1842.50	3845	2201.50	4500	2571.50
2340	52	1820	1532.44	2506	1718.60	3240	1916.20	3999	2289.56	4680	2674.36
2430	54	1890	1591.38	2603	1784.70	3364	1989.90	4153	2377.62	4860	2777.22
2520	56	1960	1650.32	2699	1850.80	3489	2063.60	4306	2465.68	5040	2880.08
2610	58	2030	1709.26	2796	1916.90	3613	2137.30	4460	2553.74	5220	2982.94
2700	60	2100	1768.20	2892	1983.00	3738	2211.00	4614	2641.80	5400	3085.80

Maximum number of elements per block	66	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

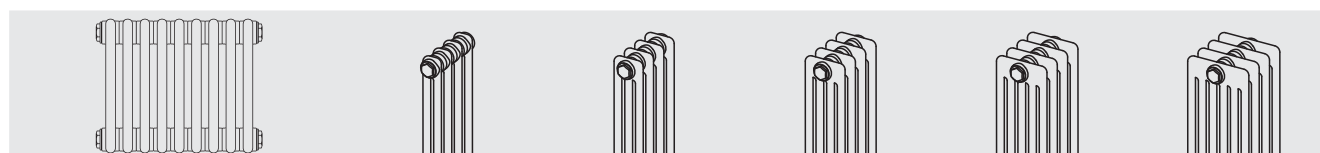
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	Valve on side at bottom 96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 500 MM

with heat outputs depending on length and depth



Model	2050	3050	4050	5050	6050
Order number	RRN20050...2.XA	RRN30050...2.XA	RRN40050...2.XA	RRN50050...2.XA	RRN60050...2.XA
Height H [mm]	500	500	500	500	500
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.71	1.06	1.42	1.83	2.21
Exponent n []	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_e [watts/el.]	39	53	69	85	99
Price per element [EUR/el.]	30.27	34.07	37.95	44.87	52.79

Length L [mm]	Length [el.]	Φ_e ΔT 50 K [watt]	Price [EUR]	Φ_e ΔT 50 K [watt]	Price [EUR]	Φ_e ΔT 50 K [watt]	Price [EUR]	Φ_e ΔT 50 K [watt]	Price [EUR]	Φ_e ΔT 50 K [watt]	Price [EUR]
270	6	232	181.62	319	204.42	412	227.70	509	269.22	595	316.74
360	8	309	242.16	426	272.56	549	303.60	678	358.96	793	422.32
450	10	386	302.70	532	340.70	686	379.50	848	448.70	991	527.90
540	12	463	363.24	638	408.84	823	455.40	1018	538.44	1189	633.48
630	14	540	423.78	745	476.98	960	531.30	1187	628.18	1387	739.06
720	16	618	484.32	851	545.12	1098	607.20	1357	717.92	1586	844.64
810	18	695	544.86	958	613.26	1235	683.10	1526	807.66	1784	950.22
900	20	772	605.40	1064	681.40	1372	759.00	1696	897.40	1982	1055.80
990	22	849	665.94	1170	749.54	1509	834.90	1866	987.14	2180	1161.38
1080	24	926	726.48	1277	817.68	1646	910.80	2035	1076.88	2378	1266.96
1170	26	1004	787.02	1383	885.82	1784	986.70	2205	1166.62	2577	1372.54
1260	28	1081	847.56	1490	953.96	1921	1062.60	2374	1256.36	2775	1478.12
1350	30	1158	908.10	1596	1022.10	2058	1138.50	2544	1346.10	2973	1583.70
1440	32	1235	968.64	1702	1090.24	2195	1214.40	2714	1435.84	3171	1689.28
1530	34	1312	1029.18	1809	1158.38	2332	1290.30	2883	1525.58	3369	1794.86
1620	36	1390	1089.72	1915	1226.52	2470	1366.20	3053	1615.32	3568	1900.44
1710	38	1467	1150.26	2022	1294.66	2607	1442.10	3222	1705.06	3766	2006.02
1800	40	1544	1210.80	2128	1362.80	2744	1518.00	3392	1794.80	3964	2111.60
1890	42	1621	1271.34	2234	1430.94	2881	1593.90	3562	1884.54	4162	2217.18
1980	44	1698	1331.88	2341	1499.08	3018	1669.80	3731	1974.28	4360	2322.76
2070	46	1776	1392.42	2447	1567.22	3156	1745.70	3901	2064.02	4559	2428.34
2160	48	1853	1452.96	2554	1635.36	3293	1821.60	4070	2153.76	4757	2533.92
2250	50	1930	1513.50	2660	1703.50	3430	1897.50	4240	2243.50	4955	2639.50
2340	52	2007	1574.04	2766	1771.64	3567	1973.40	4410	2333.24	5153	2745.08
2430	54	2084	1634.58	2873	1839.78	3704	2049.30	4579	2422.98	5351	2850.66
2520	56	2162	1695.12	2979	1907.92	3842	2125.20	4749	2512.72	5550	2956.24
2610	58	2239	1755.66	3086	1976.06	3979	2201.10	4918	2602.46	5748	3061.82
2700	60	2316	1816.20	3192	2044.20	4116	2277.00	5088	2692.20	5946	3167.40

Maximum number of elements per block	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 550 MM

with heat outputs depending on length and depth



Model		2055	3055	4055	5055	6055
Order number		RRN20055...2.XA	RRN30055...2.XA	RRN40055...2.XA	RRN50055...2.XA	RRN60055...2.XA
Height H	[mm]	550	550	550	550	550
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.77	1.16	1.54	1.99	2.40
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s	[watts/el.]	42	58	75	93	108
Price per element	[EUR/el.]	30.77	35.06	39.58	46.50	55.27

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
270	6	253	184.62	350	210.36	449	237.48	555	279.00	648	331.62
360	8	338	246.16	466	280.48	599	316.64	740	372.00	864	442.16
450	10	422	307.70	583	350.60	749	395.80	925	465.00	1080	552.70
540	12	506	369.24	700	420.72	899	474.96	1110	558.00	1296	663.24
630	14	591	430.78	816	490.84	1049	554.12	1295	651.00	1512	773.78
720	16	675	492.32	933	560.96	1198	633.28	1480	744.00	1728	884.32
810	18	760	553.86	1049	631.08	1348	712.44	1665	837.00	1944	994.86
900	20	844	615.40	1166	701.20	1498	791.60	1850	930.00	2160	1105.40
990	22	928	676.94	1283	771.32	1648	870.76	2035	1023.00	2376	1215.94
1080	24	1013	738.48	1399	841.44	1798	949.92	2220	1116.00	2592	1326.48
1170	26	1097	800.02	1516	911.56	1947	1029.08	2405	1209.00	2808	1437.02
1260	28	1182	861.56	1632	981.68	2097	1108.24	2590	1302.00	3024	1547.56
1350	30	1266	923.10	1749	1051.80	2247	1187.40	2775	1395.00	3240	1658.10
1440	32	1350	984.64	1866	1121.92	2397	1266.56	2960	1488.00	3456	1768.64
1530	34	1435	1046.18	1982	1192.04	2547	1345.72	3145	1581.00	3672	1879.18
1620	36	1519	1107.72	2099	1262.16	2696	1424.88	3330	1674.00	3888	1989.72
1710	38	1604	1169.26	2215	1332.28	2846	1504.04	3515	1767.00	4104	2100.26
1800	40	1688	1230.80	2332	1402.40	2996	1583.20	3700	1860.00	4320	2210.80
1890	42	1772	1292.34	2449	1472.52	3146	1662.36	3885	1953.00	4536	2321.34
1980	44	1857	1353.88	2565	1542.64	3296	1741.52	4070	2046.00	4752	2431.88
2070	46	1941	1415.42	2682	1612.76	3445	1820.68	4255	2139.00	4968	2542.42
2160	48	2026	1476.96	2798	1682.88	3595	1899.84	4440	2232.00	5184	2652.96
2250	50	2110	1538.50	2915	1753.00	3745	1979.00	4625	2325.00	5400	2763.50
2340	52	2194	1600.04	3032	1823.12	3895	2058.16	4810	2418.00	5616	2874.04
2430	54	2279	1661.58	3148	1893.24	4045	2137.32	4995	2511.00	5832	2984.58
2520	56	2363	1723.12	3265	1963.36	4194	2216.48	5180	2604.00	6048	3095.12
2610	58	2448	1784.66	3381	2033.48	4344	2295.64	5365	2697.00	6264	3205.66
2700	60	2532	1846.20	3498	2103.60	4494	2374.80	5550	2790.00	6480	3316.20

Maximum number of elements per block	66	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

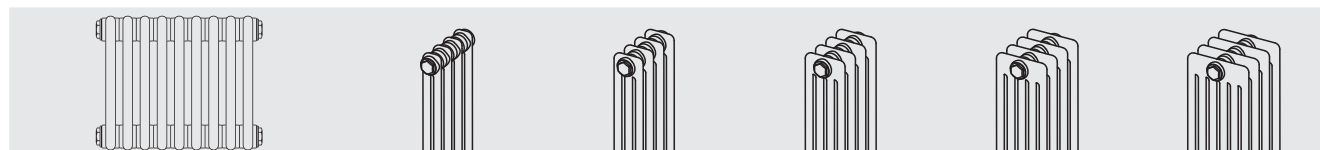
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	Valve on side at bottom 69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 600 MM

with heat outputs depending on length and depth



Model	2060	3060	4060	5060	6060
Order number	RRN20060...2.XA	RRN30060...2.XA	RRN40060...2.XA	RRN50060...2.XA	RRN60060...2.XA
Height H [mm]	600	600	600	600	600
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.83	1.25	1.66	2.14	2.58
Exponent n []	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s [watts/el.]	46	63	81	100	117
Price per element [EUR/el.]	31.68	36.17	40.95	48.60	57.31

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	275	190.08	379	217.02	487	245.70	600	291.60	702	343.86
360	8	366	253.44	506	289.36	649	327.60	800	388.80	936	458.48
450	10	458	316.80	632	361.70	811	409.50	1000	486.00	1170	573.10
540	12	550	380.16	758	434.04	973	491.40	1200	583.20	1404	687.72
630	14	641	443.52	885	506.38	1135	573.30	1400	680.40	1638	802.34
720	16	733	506.88	1011	578.72	1298	655.20	1600	777.60	1872	916.96
810	18	824	570.24	1138	651.06	1460	737.10	1800	874.80	2106	1031.58
900	20	916	633.60	1264	723.40	1622	819.00	2000	972.00	2340	1146.20
990	22	1008	696.96	1390	795.74	1784	900.90	2200	1069.20	2574	1260.82
1080	24	1099	760.32	1517	868.08	1946	982.80	2400	1166.40	2808	1375.44
1170	26	1191	823.68	1643	940.42	2109	1064.70	2600	1263.60	3042	1490.06
1260	28	1282	887.04	1770	1012.76	2271	1146.60	2800	1360.80	3276	1604.68
1350	30	1374	950.40	1896	1085.10	2433	1228.50	3000	1458.00	3510	1719.30
1440	32	1466	1013.76	2022	1157.44	2595	1310.40	3200	1555.20	3744	1833.92
1530	34	1557	1077.12	2149	1229.78	2757	1392.30	3400	1652.40	3978	1948.54
1620	36	1649	1140.48	2275	1302.12	2920	1474.20	3600	1749.60	4212	2063.16
1710	38	1740	1203.84	2402	1374.46	3082	1556.10	3800	1846.80	4446	2177.78
1800	40	1832	1267.20	2528	1446.80	3244	1638.00	4000	1944.00	4680	2292.40
1890	42	1924	1330.56	2654	1519.14	3406	1719.90	4200	2041.20	4914	2407.02
1980	44	2015	1393.92	2781	1591.48	3568	1801.80	4400	2138.40	5148	2521.64
2070	46	2107	1457.28	2907	1663.82	3731	1883.70	4600	2235.60	5382	2636.26
2160	48	2198	1520.64	3034	1736.16	3893	1965.60	4800	2332.80	5616	2750.88
2250	50	2290	1584.00	3160	1808.50	4055	2047.50	5000	2430.00	5850	2865.50
2340	52	2382	1647.36	3286	1880.84	4217	2129.40	5200	2527.20	6084	2980.12
2430	54	2473	1710.72	3413	1953.18	4379	2211.30	5400	2624.40	6318	3094.74
2520	56	2565	1774.08	3539	2025.52	4542	2293.20	5600	2721.60	6552	3209.36
2610	58	2656	1837.44	3666	2097.86	4704	2375.10	5800	2818.80	6786	3323.98
2700	60	2748	1900.80	3792	2170.20	4866	2457.00	6000	2916.00	7020	3438.60

Maximum number of elements per block	66	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 750 MM

with heat outputs depending on length and depth



Model		2075	3075	4075	5075	6075
Order number		RRN20075...2.XA	RRN30075...2.XA	RRN40075...2.XA	RRN50075...2.XA	RRN60075...2.XA
Height H	[mm]	750	750	750	750	750
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.02	1.52	2.03	2.59	3.12
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4000
Standard heat output Φ_s	[watts/el.]	57	78	100	123	143
Price per element	[EUR/el.]	32.99	38.80	46.50	55.94	65.31

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
270	6	339	197.94	467	232.80	597	279.00	738	335.64	858	391.86
360	8	452	263.92	623	310.40	796	372.00	984	447.52	1144	522.48
450	10	565	329.90	779	388.00	995	465.00	1230	559.40	1430	653.10
540	12	678	395.88	935	465.60	1194	558.00	1476	671.28	1716	783.72
630	14	791	461.86	1091	543.20	1393	651.00	1722	783.16	2002	914.34
720	16	904	527.84	1246	620.80	1592	744.00	1968	895.04	2288	1044.96
810	18	1017	593.82	1402	698.40	1791	837.00	2214	1006.92	2574	1175.58
900	20	1130	659.80	1558	776.00	1990	930.00	2460	1118.80	2860	1306.20
990	22	1243	725.78	1714	853.60	2189	1023.00	2706	1230.68	3146	1436.82
1080	24	1356	791.76	1870	931.20	2388	1116.00	2952	1342.56	3432	1567.44
1170	26	1469	857.74	2025	1008.80	2587	1209.00	3198	1454.44	3718	1698.06
1260	28	1582	923.72	2181	1086.40	2786	1302.00	3444	1566.32	4004	1828.68
1350	30	1695	989.70	2337	1164.00	2985	1395.00	3690	1678.20	4290	1959.30
1440	32	1808	1055.68	2493	1241.60	3184	1488.00	3936	1790.08	4576	2089.92
1530	34	1921	1121.66	2649	1319.20	3383	1581.00	4182	1901.96	4862	2220.54
1620	36	2034	1187.64	2804	1396.80	3582	1674.00	4428	2013.84	5148	2351.16
1710	38	2147	1253.62	2960	1474.40	3781	1767.00	4674	2125.72	5434	2481.78
1800	40	2260	1319.60	3116	1552.00	3980	1860.00	4920	2237.60	5720	2612.40
1890	42	2373	1385.58	3272	1629.60	4179	1953.00	5166	2349.48	6006	2743.02
1980	44	2486	1451.56	3428	1707.20	4378	2046.00	5412	2461.36	6292	2873.64
2070	46	2599	1517.54	3583	1784.80	4577	2139.00	5658	2573.24	6578	3004.26
2160	48	2712	1583.52	3739	1862.40	4776	2232.00	5904	2685.12	6864	3134.88
2250	50	2825	1649.50	3895	1940.00	4975	2325.00	6150	2797.00	7150	3265.50
2340	52	2938	1715.48	4051	2017.60	5174	2418.00	6396	2908.88	7436	3396.12
2430	54	3051	1781.46	4207	2095.20	5373	2511.00	6642	3020.76	7722	3526.74
2520	56	3164	1847.44	4362	2172.80	5572	2604.00	6888	3132.64	8008	3657.36
2610	58	3277	1913.42	4518	2250.40	5771	2697.00	7134	3244.52	8294	3787.98
2700	60	3390	1979.40	4674	2328.00	5970	2790.00	7380	3356.40	8580	3918.60
Maximum number of elements per block		66		66		66		66		66	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

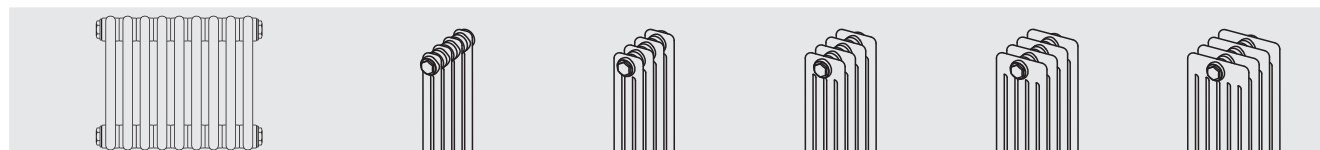
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	Valve on side at bottom 69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 900 MM

with heat outputs depending on length and depth



Model	2090	3090	4090	5090	6090
Order number	RRN20090...2.XA	RRN30090...2.XA	RRN40090...2.XA	RRN50090...2.XA	RRN60090...2.XA
Height H [mm]	900	900	900	900	900
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	1.20	1.79	2.39	3.05	3.67
Exponent n []	1.3100	1.3600	1.3500	1.3900	1.4000
Standard heat output Φ_s [watts/el.]	67	92	117	144	168
Price per element [EUR/el.]	35.15	41.77	53.62	63.46	73.46

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	402	210.90	554	250.62	702	321.72	864	380.76	1008	440.76
360	8	536	281.20	738	334.16	936	428.96	1152	507.68	1344	587.68
450	10	670	351.50	923	417.70	1170	536.20	1440	634.60	1680	734.60
540	12	804	421.80	1108	501.24	1404	643.44	1728	761.52	2016	881.52
630	14	938	492.10	1292	584.78	1638	750.68	2016	888.44	2352	1028.44
720	16	1072	562.40	1477	668.32	1872	857.92	2304	1015.36	2688	1175.36
810	18	1206	632.70	1661	751.86	2106	965.16	2592	1142.28	3024	1322.28
900	20	1340	703.00	1846	835.40	2340	1072.40	2880	1269.20	3360	1469.20
990	22	1474	773.30	2031	918.94	2574	1179.64	3168	1396.12	3696	1616.12
1080	24	1608	843.60	2215	1002.48	2808	1286.88	3456	1523.04	4032	1763.04
1170	26	1742	913.90	2400	1086.02	3042	1394.12	3744	1649.96	4368	1909.96
1260	28	1876	984.20	2584	1169.56	3276	1501.36	4032	1776.88	4704	2056.88
1350	30	2010	1054.50	2769	1253.10	3510	1608.60	4320	1903.80	5040	2203.80
1440	32	2144	1124.80	2954	1336.64	3744	1715.84	4608	2030.72	5376	2350.72
1530	34	2278	1195.10	3138	1420.18	3978	1823.08	4896	2157.64	5712	2497.64
1620	36	2412	1265.40	3323	1503.72	4212	1930.32	5184	2284.56	6048	2644.56
1710	38	2546	1335.70	3507	1587.26	4446	2037.56	5472	2411.48	6384	2791.48
1800	40	2680	1406.00	3692	1670.80	4680	2144.80	5760	2538.40	6720	2938.40
1890	42	2814	1476.30	3877	1754.34	4914	2252.04	6048	2665.32	7056	3085.32
1980	44	2948	1546.60	4061	1837.88	5148	2359.28	6336	2792.24	7392	3232.24
2070	46	3082	1616.90	4246	1921.42	5382	2466.52	6624	2919.16	7728	3379.16
2160	48	3216	1687.20	4430	2004.96	5616	2573.76	6912	3046.08	8064	3526.08
2250	50	3350	1757.50	4615	2088.50	5850	2681.00	7200	3173.00	8400	3673.00
2340	52	3484	1827.80	4800	2172.04	6084	2788.24	7488	3299.92	8736	3819.92
2430	54	3618	1898.10	4984	2255.58	6318	2895.48	7776	3426.84	9072	3966.84
2520	56	3752	1968.40	5169	2339.12	6552	3002.72	8064	3553.76	9408	4113.76
2610	58	3886	2038.70	5353	2422.66	6786	3109.96	8352	3680.68	9744	4260.68
2700	60	4020	2109.00	5538	2506.20	7020	3217.20	8640	3807.60	10080	4407.60

Maximum number of elements per block	66	66	66	66
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

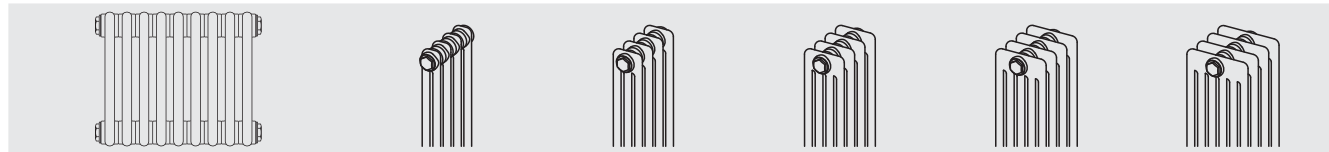
Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 1000 MM

with heat outputs depending on length and depth



Model	2100	3100	4100	5100	6100
Order number	RRN20100...2.XA	RRN30100...2.XA	RRN40100...2.XA	RRN50100...2.XA	RRN60100...2.XA
Height H [mm]	1000	1000	1000	1000	1000
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	1.32	1.98	2.63	3.35	4.03
Exponent n []	1.3200	1.3600	1.3500	1.3800	1.4000
Standard heat output Φ_s [watts/el.]	74	102	129	158	185
Price per element [EUR/el.]	36.76	43.80	57.93	67.65	79.20

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]
270	6	444	220.56	612	262.80	774	347.58	948	405.90	1110	475.20
360	8	592	294.08	816	350.40	1032	463.44	1264	541.20	1480	633.60
450	10	740	367.60	1020	438.00	1290	579.30	1580	676.50	1850	792.00
540	12	888	441.12	1224	525.60	1548	695.16	1896	811.80	2220	950.40
630	14	1036	514.64	1428	613.20	1806	811.02	2212	947.10	2590	1108.80
720	16	1184	588.16	1632	700.80	2064	926.88	2528	1082.40	2960	1267.20
810	18	1332	661.68	1836	788.40	2322	1042.74	2844	1217.70	3330	1425.60
900	20	1480	735.20	2040	876.00	2580	1158.60	3160	1353.00	3700	1584.00
990	22	1628	808.72	2244	963.60	2838	1274.46	3476	1488.30	4070	1742.40
1080	24	1776	882.24	2448	1051.20	3096	1390.32	3792	1623.60	4440	1900.80
1170	26	1924	955.76	2652	1138.80	3354	1506.18	4108	1758.90	4810	2059.20
1260	28	2072	1029.28	2856	1226.40	3612	1622.04	4424	1894.20	5180	2217.60
1350	30	2220	1102.80	3060	1314.00	3870	1737.90	4740	2029.50	5550	2376.00
1440	32	2368	1176.32	3264	1401.60	4128	1853.76	5056	2164.80	5920	2534.40
1530	34	2516	1249.84	3468	1489.20	4386	1969.62	5372	2300.10	6290	2692.80
1620	36	2664	1323.36	3672	1576.80	4644	2085.48	5688	2435.40	6660	2851.20
1710	38	2812	1396.88	3876	1664.40	4902	2201.34	6004	2570.70	7030	3009.60
1800	40	2960	1470.40	4080	1752.00	5160	2317.20	6320	2706.00	7400	3168.00
1890	42	3108	1543.92	4284	1839.60	5418	2433.06	6636	2841.30	7770	3326.40
1980	44	3256	1617.44	4488	1927.20	5676	2548.92	6952	2976.60	8140	3484.80
2070	46	3404	1690.96	4692	2014.80	5934	2664.78	7268	3111.90	8510	3643.20
2160	48	3552	1764.48	4896	2102.40	6192	2780.64	7584	3247.20	8880	3801.60
2250	50	3700	1838.00	5100	2190.00	6450	2896.50	7900	3382.50	9250	3960.00
2340	52	3848	1911.52	5304	2277.60	6708	3012.36	8216	3517.80	9620	4118.40
2430	54	3996	1985.04	5508	2365.20	6966	3128.22	8532	3653.10	9990	4276.80
2520	56	4144	2058.56	5712	2452.80	7224	3244.08	8848	3788.40	10360	4435.20
2610	58	4292	2132.08	5916	2540.40	7482	3359.94	9164	3923.70	10730	4593.60
2700	60	4440	2205.60	6120	2628.00	7740	3475.80	9480	4059.00	11100	4752.00
Maximum number of elements per block		66		66		66		66		58	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

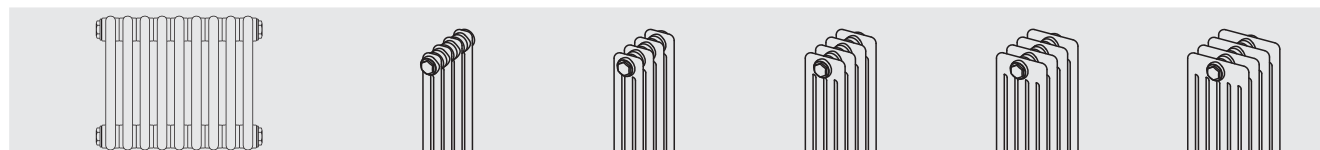
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	Valve on side at bottom 69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 1100 MM

with heat outputs depending on length and depth



Model	2110	3110	4110	5110	6110
Order number	RRN20110...2.XA	RRN30110...2.XA	RRN40110...2.XA	RRN50110...2.XA	RRN60110...2.XA
Height H [mm]	1100	1100	1100	1100	1100
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	1.44	2.16	2.88	3.65	4.40
Exponent n []	1.3200	1.3500	1.3500	1.3800	1.4000
Standard heat output Φ_s [watts/el.]	81	111	141	172	201
Price per element [EUR/el.]	38.20	49.16	64.02	78.49	93.39

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	486	229.20	666	294.96	846	384.12	1032	470.94	1206	560.34
360	8	648	305.60	888	393.28	1128	512.16	1376	627.92	1608	747.12
450	10	810	382.00	1110	491.60	1410	640.20	1720	784.90	2010	933.90
540	12	972	458.40	1332	589.92	1692	768.24	2064	941.88	2412	1120.68
630	14	1134	534.80	1554	688.24	1974	896.28	2408	1098.86	2814	1307.46
720	16	1296	611.20	1776	786.56	2256	1024.32	2752	1255.84	3216	1494.24
810	18	1458	687.60	1998	884.88	2538	1152.36	3096	1412.82	3618	1681.02
900	20	1620	764.00	2220	983.20	2820	1280.40	3440	1569.80	4020	1867.80
990	22	1782	840.40	2442	1081.52	3102	1408.44	3784	1726.78	4422	2054.58
1080	24	1944	916.80	2664	1179.84	3384	1536.48	4128	1883.76	4824	2241.36
1170	26	2106	993.20	2886	1278.16	3666	1664.52	4472	2040.74	5226	2428.14
1260	28	2268	1069.60	3108	1376.48	3948	1792.56	4816	2197.72	5628	2614.92
1350	30	2430	1146.00	3330	1474.80	4230	1920.60	5160	2354.70	6030	2801.70
1440	32	2592	1222.40	3552	1573.12	4512	2048.64	5504	2511.68	6432	2988.48
1530	34	2754	1298.80	3774	1671.44	4794	2176.68	5848	2668.66	6834	3175.26
1620	36	2916	1375.20	3996	1769.76	5076	2304.72	6192	2825.64	7236	3362.04
1710	38	3078	1451.60	4218	1868.08	5358	2432.76	6536	2982.62	7638	3548.82
1800	40	3240	1528.00	4440	1966.40	5640	2560.80	6880	3139.60	8040	3735.60
1890	42	3402	1604.40	4662	2064.72	5922	2688.84	7224	3296.58	8442	3922.38
1980	44	3564	1680.80	4884	2163.04	6204	2816.88	7568	3453.56	8844	4109.16
2070	46	3726	1757.20	5106	2261.36	6486	2944.92				
2160	48	3888	1833.60	5328	2359.68	6768	3072.96				
2250	50	4050	1910.00	5550	2458.00	7050	3201.00				
2340	52	4212	1986.40	5772	2556.32	7332	3329.04				
2430	54	4374	2062.80	5994	2654.64	7614	3457.08				
2520	56	4536	2139.20	6216	2752.96	7896	3585.12				
2610	58	4698	2215.60	6438	2851.28	8178	3713.16				
2700	60	4860	2292.00	6660	2949.60	8460	3841.20				

Maximum number of elements per block	66	66	66	44	44
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 1200 MM

with heat outputs depending on length and depth



Model	2120	3120	4120	5120	6120
Order number	RRN20120...2.XA	RRN30120...2.XA	RRN40120...2.XA	RRN50120...2.XA	RRN60120...2.XA
Height H [mm]	1200	1200	1200	1200	1200
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	1.56	2.34	3.12	3.96	4.76
Exponent n []	1.3200	1.3500	1.3500	1.3800	1.4000
Standard heat output Φ_s [watts/el.]	88	120	152	186	217
Price per element [EUR/el.]	40.78	57.48	72.32	90.83	105.81

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	528	244.68	720	344.88	912	433.92	1116	544.98	1302	634.86
360	8	704	326.24	960	459.84	1216	578.56	1488	726.64	1736	846.48
450	10	880	407.80	1200	574.80	1520	723.20	1860	908.30	2170	1058.10
540	12	1056	489.36	1440	689.76	1824	867.84	2232	1089.96	2604	1269.72
630	14	1232	570.92	1680	804.72	2128	1012.48	2604	1271.62	3038	1481.34
720	16	1408	652.48	1920	919.68	2432	1157.12	2976	1453.28	3472	1692.96
810	18	1584	734.04	2160	1034.64	2736	1301.76	3348	1634.94	3906	1904.58
900	20	1760	815.60	2400	1149.60	3040	1446.40	3720	1816.60	4340	2116.20
990	22	1936	897.16	2640	1264.56	3344	1591.04	4092	1998.26	4774	2327.82
1080	24	2112	978.72	2880	1379.52	3648	1735.68	4464	2179.92	5208	2539.44
1170	26	2288	1060.28	3120	1494.48	3952	1880.32	4836	2361.58	5642	2751.06
1260	28	2464	1141.84	3360	1609.44	4256	2024.96	5208	2543.24	6076	2962.68
1350	30	2640	1223.40	3600	1724.40	4560	2169.60	5580	2724.90	6510	3174.30
1440	32	2816	1304.96	3840	1839.36	4864	2314.24	5952	2906.56	6944	3385.92
1530	34	2992	1386.52	4080	1954.32	5168	2458.88	6324	3088.22	7378	3597.54
1620	36	3168	1468.08	4320	2069.28	5472	2603.52	6696	3269.88	7812	3809.16
1710	38	3344	1549.64	4560	2184.24	5776	2748.16	7068	3451.54	8246	4020.78
1800	40	3520	1631.20	4800	2299.20	6080	2892.80	7440	3633.20	8680	4232.40
1890	42	3696	1712.76	5040	2414.16	6384	3037.44	7812	3814.86	9114	4444.02
1980	44	3872	1794.32	5280	2529.12	6688	3182.08	8184	3996.52	9548	4655.64
2070	46	4048	1875.88	5520	2644.08	6992	3326.72				
2160	48	4224	1957.44	5760	2759.04	7296	3471.36				
2250	50	4400	2039.00	6000	2874.00	7600	3616.00				
2340	52	4576	2120.56	6240	2988.96	7904	3760.64				
2430	54	4752	2202.12	6480	3103.92	8208	3905.28				
2520	56	4928	2283.68	6720	3218.88	8512	4049.92				
2610	58	5104	2365.24	6960	3333.84	8816	4194.56				
2700	60	5280	2446.80	7200	3448.80	9120	4339.20				
Maximum number of elements per block		66		66		66		44		44	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

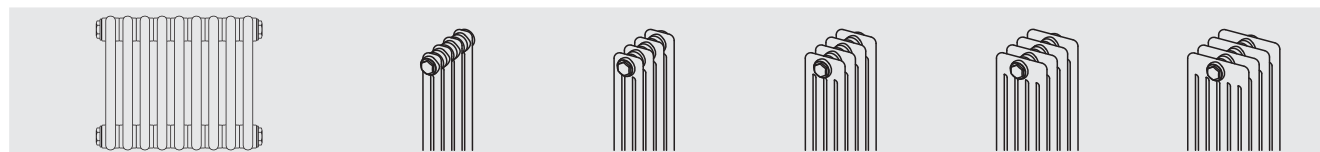
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	Valve on side at bottom	
61, 81, 62, and 82	69, 89, 50, and 70	342.43 €
	96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 1500 MM

with heat outputs depending on length and depth



Model	2150	3150	4150	5150	6150
Order number	RRN20150...2.XA	RRN30150...2.XA	RRN40150...2.XA	RRN50150...2.XA	RRN60150...2.XA
Height H [mm]	1500	1500	1500	1500	1500
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	1.93	2.89	3.85	4.87	5.85
Exponent n []	1.3200	1.3500	1.3500	1.3700	1.4000
Standard heat output Φ_s [watts/el.]	109	147	186	225	264
Price per element [EUR/el.]	52.17	74.56	97.43	122.00	145.34

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]	$\Phi_s \Delta T$ 50 K [watt]	Price [EUR]
270	6	654	313.02	882	447.36	1116	584.58	1350	732.00	1584	872.04
360	8	872	417.36	1176	596.48	1488	779.44	1800	976.00	2112	1162.72
450	10	1090	521.70	1470	745.60	1860	974.30	2250	1220.00	2640	1453.40
540	12	1308	626.04	1764	894.72	2232	1169.16	2700	1464.00	3168	1744.08
630	14	1526	730.38	2058	1043.84	2604	1364.02	3150	1708.00	3696	2034.76
720	16	1744	834.72	2352	1192.96	2976	1558.88	3600	1952.00	4224	2325.44
810	18	1962	939.06	2646	1342.08	3348	1753.74	4050	2196.00	4752	2616.12
900	20	2180	1043.40	2940	1491.20	3720	1948.60	4500	2440.00	5280	2906.80
990	22	2398	1147.74	3234	1640.32	4092	2143.46	4950	2684.00	5808	3197.48
1080	24	2616	1252.08	3528	1789.44	4464	2338.32	5400	2928.00	6336	3488.16
1170	26	2834	1356.42	3822	1938.56	4836	2533.18	5850	3172.00	6864	3778.84
1260	28	3052	1460.76	4116	2087.68	5208	2728.04	6300	3416.00	7392	4069.52
1350	30	3270	1565.10	4410	2236.80	5580	2922.90	6750	3660.00	7920	4360.20
1440	32	3488	1669.44	4704	2385.92	5952	3117.76				
1530	34	3706	1773.78	4998	2535.04	6324	3312.62				
1620	36	3924	1878.12	5292	2684.16	6696	3507.48				
1710	38	4142	1982.46	5586	2833.28	7068	3702.34				
1800	40	4360	2086.80	5880	2982.40	7440	3897.20				
1890	42	4578	2191.14	6174	3131.52	7812	4092.06				
1980	44	4796	2295.48	6468	3280.64	8184	4286.92				
2070	46	5014	2399.82	6762	3429.76	8556	4481.78				
2160	48	5232	2504.16	7056	3578.88	8928	4676.64				
2250	50	5450	2608.50	7350	3728.00	9300	4871.50				
2340	52	5668	2712.84	7644	3877.12	9672	5066.36				
2430	54	5886	2817.18	7938	4026.24	10044	5261.22				
2520	56	6104	2921.52	8232	4175.36	10416	5456.08				
2610	58	6322	3025.86	8526	4324.48	10788	5650.94				
2700	60	6540	3130.20	8820	4473.60	11160	5845.80				

Maximum number of elements per block	66	66	54	30	30
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

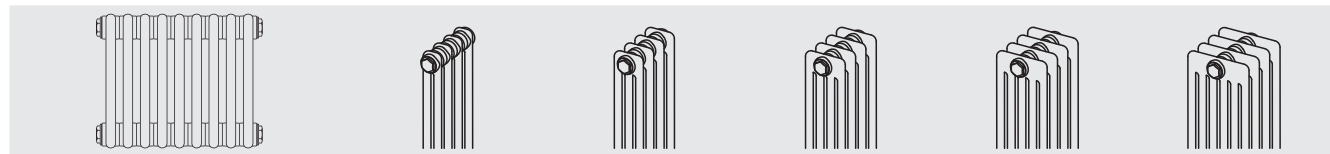
Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 1800 MM

with heat outputs depending on length and depth



Model	2180	3180	4180	5180	6180
Order number	RRN20180...2.XA	RRN30180...2.XA	RRN40180...2.XA	RRN50180...2.XA	RRN60180...2.XA
Height H [mm]	1800	1800	1800	1800	1800
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	2.29	3.43	4.58	5.78	6.95
Exponent n []	1.3200	1.3500	1.3400	1.3700	1.3900
Standard heat output Φ_s [watts/el.]	130	173	219	263	309
Price per element [EUR/el.]	61.66	91.97	117.06	143.52	170.44

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	780	369.96	1038	551.82	1314	702.36	1578	861.12	1854	1022.64
360	8	1040	493.28	1384	735.76	1752	936.48	2104	1148.16	2472	1363.52
450	10	1300	616.60	1730	919.70	2190	1170.60	2630	1435.20	3090	1704.40
540	12	1560	739.92	2076	1103.64	2628	1404.72	3156	1722.24	3708	2045.28
630	14	1820	863.24	2422	1287.58	3066	1638.84	3682	2009.28	4326	2386.16
720	16	2080	986.56	2768	1471.52	3504	1872.96	4208	2296.32	4944	2727.04
810	18	2340	1109.88	3114	1655.46	3942	2107.08	4734	2583.36	5562	3067.92
900	20	2600	1233.20	3460	1839.40	4380	2341.20	5260	2870.40	6180	3408.80
990	22	2860	1356.52	3806	2023.34	4818	2575.32	5786	3157.44	6798	3749.68
1080	24	3120	1479.84	4152	2207.28	5256	2809.44	6312	3444.48	7416	4090.56
1170	26	3380	1603.16	4498	2391.22	5694	3043.56	6838	3731.52	8034	4431.44
1260	28	3640	1726.48	4844	2575.16	6132	3277.68	7364	4018.56	8652	4772.32
1350	30	3900	1849.80	5190	2759.10	6570	3511.80	7890	4305.60	9270	5113.20
1440	32	4160	1973.12	5536	2943.04	7008	3745.92				
1530	34	4420	2096.44	5882	3126.98	7446	3980.04				
1620	36	4680	2219.76	6228	3310.92	7884	4214.16				
1710	38	4940	2343.08	6574	3494.86	8322	4448.28				
1800	40	5200	2466.40	6920	3678.80	8760	4682.40				
1890	42	5460	2589.72	7266	3862.74	9198	4916.52				
1980	44	5720	2713.04	7612	4046.68	9636	5150.64				
2070	46	5980	2836.36	7958	4230.62	10074	5384.76				
2160	48	6240	2959.68	8304	4414.56	10512	5618.88				
2250	50	6500	3083.00	8650	4598.50	10950	5853.00				
2340	52	6760	3206.32	8996	4782.44	11388	6087.12				
2430	54	7020	3329.64	9342	4966.38	11826	6321.24				
2520	56	7280	3452.96	9688	5150.32	12264	6555.36				
2610	58	7540	3576.28	10034	5334.26	12702	6789.48				
2700	60	7800	3699.60	10380	5518.20	13140	7023.60				

Maximum number of elements per block	66	66	54	30	30
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

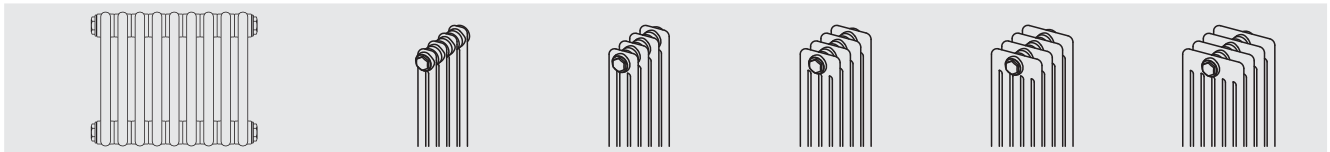
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	Valve on side at bottom 69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 2000 MM

with heat outputs depending on length and depth



Model	2200	3200	4200	5200	6200
Order number	RRN20200...2.XA	RRN30200...2.XA	RRN40200...2.XA	RRN50200...2.XA	RRN60200...2.XA
Height H [mm]	2000	2000	2000	2000	2000
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	2.53	3.80	5.06	6.38	7.67
Exponent n []	1.3200	1.3400	1.3400	1.3700	1.3900
Standard heat output Φ_s [watts/el.]	144	190	241	287	339
Price per element [EUR/el.]	69.01	98.56	129.66	158.69	187.94

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	864	414.06	1140	591.36	1446	777.96	1722	952.14	2034	1127.64
360	8	1152	552.08	1520	788.48	1928	1037.28	2296	1269.52	2712	1503.52
450	10	1440	690.10	1900	985.60	2410	1296.60	2870	1586.90	3390	1879.40
540	12	1728	828.12	2280	1182.72	2892	1555.92	3444	1904.28	4068	2255.28
630	14	2016	966.14	2660	1379.84	3374	1815.24	4018	2221.66	4746	2631.16
720	16	2304	1104.16	3040	1576.96	3856	2074.56	4592	2539.04	5424	3007.04
810	18	2592	1242.18	3420	1774.08	4338	2333.88	5166	2856.42	6102	3382.92
900	20	2880	1380.20	3800	1971.20	4820	2593.20	5740	3173.80	6780	3758.80
990	22	3168	1518.22	4180	2168.32	5302	2852.52	6314	3491.18	7458	4134.68
1080	24	3456	1656.24	4560	2365.44	5784	3111.84	6888	3808.56	8136	4510.56
1170	26	3744	1794.26	4940	2562.56	6266	3371.16	7462	4125.94	8814	4886.44
1260	28	4032	1932.28	5320	2759.68	6748	3630.48	8036	4443.32	9492	5262.32
1350	30	4320	2070.30	5700	2956.80	7230	3889.80	8610	4760.70	10170	5638.20
1440	32	4608	2208.32	6080	3153.92	7712	4149.12				
1530	34	4896	2346.34	6460	3351.04	8194	4408.44				
1620	36	5184	2484.36	6840	3548.16	8676	4667.76				
1710	38	5472	2622.38	7220	3745.28	9158	4927.08				
1800	40	5760	2760.40	7600	3942.40	9640	5186.40				
1890	42	6048	2898.42	7980	4139.52	10122	5445.72				
1980	44	6336	3036.44	8360	4336.64	10604	5705.04				
2070	46	6624	3174.46	8740	4533.76	11086	5964.36				
2160	48	6912	3312.48	9120	4730.88	11568	6223.68				
2250	50	7200	3450.50	9500	4928.00	12050	6483.00				
2340	52	7488	3588.52	9880	5125.12	12532	6742.32				
2430	54	7776	3726.54	10260	5322.24	13014	7001.64				
2520	56	8064	3864.56	10640	5519.36	13496	7260.96				
2610	58	8352	4002.58	11020	5716.48	13978	7520.28				
2700	60	8640	4140.60	11400	5913.60	14460	7779.60				

Maximum number of elements per block	66	59	44	30	30
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.

General information

Model standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information



PRICES AND OUTPUTS – HEIGHT OF 2200 MM

with heat outputs depending on length and depth



Model	2220	3220	4220	5220	6220
Order number	RRN20220...2.XA	RRN30220...2.XA	RRN40220...2.XA	RRN50220...2.XA	RRN60220...2.XA
Height H [mm]	2200	2200	2200	2200	2200
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	2.78	4.16	5.55	6.99	8.40
Exponent n []	1.3200	1.3400	1.3400	1.3600	1.3900
Standard heat output Φ_s [watts/el.]	158	207	262	310	367
Price per element [EUR/el.]	77.45	112.23	145.69	178.43	211.70

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	948	464.70	1242	673.38	1572	874.14	1860	1070.58	2202	1270.20
360	8	1264	619.60	1656	897.84	2096	1165.52	2480	1427.44	2936	1693.60
450	10	1580	774.50	2070	1122.30	2620	1456.90	3100	1784.30	3670	2117.00
540	12	1896	929.40	2484	1346.76	3144	1748.28	3720	2141.16	4404	2540.40
630	14	2212	1084.30	2898	1571.22	3668	2039.66	4340	2498.02	5138	2963.80
720	16	2528	1239.20	3312	1795.68	4192	2331.04	4960	2854.88	5872	3387.20
810	18	2844	1394.10	3726	2020.14	4716	2622.42	5580	3211.74	6606	3810.60
900	20	3160	1549.00	4140	2244.60	5240	2913.80	6200	3568.60	7340	4234.00
990	22	3476	1703.90	4554	2469.06	5764	3205.18	6820	3925.46	8074	4657.40
1080	24	3792	1858.80	4968	2693.52	6288	3496.56	7440	4282.32	8808	5080.80
1170	26	4108	2013.70	5382	2917.98	6812	3787.94	8060	4639.18	9542	5504.20
1260	28	4424	2168.60	5796	3142.44	7336	4079.32	8680	4996.04	10276	5927.60
1350	30	4740	2323.50	6210	3366.90	7860	4370.70	9300	5352.90	11010	6351.00
1440	32	5056	2478.40	6624	3591.36	8384	4662.08				
1530	34	5372	2633.30	7038	3815.82	8908	4953.46				
1620	36	5688	2788.20	7452	4040.28	9432	5244.84				
1710	38	6004	2943.10	7866	4264.74	9956	5536.22				
1800	40	6320	3098.00	8280	4489.20	10480	5827.60				
1890	42	6636	3252.90	8694	4713.66	11004	6118.98				
1980	44	6952	3407.80	9108	4938.12	11528	6410.36				
2070	46	7268	3562.70	9522	5162.58	12052	6701.74				
2160	48	7584	3717.60	9936	5387.04	12576	6993.12				
2250	50	7900	3872.50	10350	5611.50	13100	7284.50				
2340	52	8216	4027.40	10764	5835.96	13624	7575.88				
2430	54	8532	4182.30	11178	6060.42	14148	7867.26				
2520	56	8848	4337.20	11592	6284.88	14672	8158.64				
2610	58	9164	4492.10	12006	6509.34	15196	8450.02				
2700	60	9480	4647.00	12420	6733.80	15720	8741.40				

Maximum number of elements per block	42	59	44	30	22
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

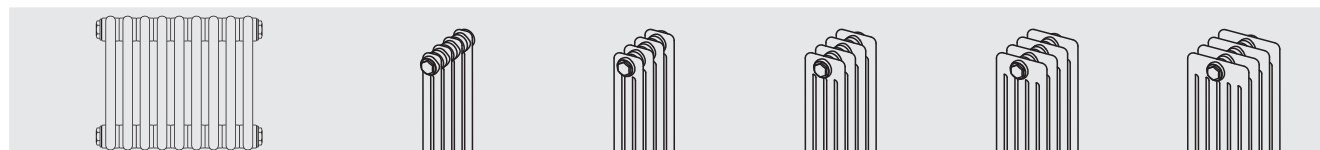
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	Valve on side at bottom 69, 89, 50, and 70	342.43 €
61, 81, 62, and 82	96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 2500 MM

with heat outputs depending on length and depth



Model	2250	3250	4250	5250	6250
Order number	RRN20250...2.XA	RRN30250...2.XA	RRN40250...2.XA	RRN50250...2.XA	RRN60250...2.XA
Height H [mm]	2500	2500	2500	2500	2500
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	3.14	4.71	6.27	7.90	9.49
Exponent n []	1.3200	1.3400	1.3400	1.3600	1.3900
Standard heat output Φ_s [watts/el.]	179	231	293	343	408
Price per element [EUR/el.]	85.88	125.89	161.92	198.01	235.66

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	1074	515.28	1386	755.34	1758	971.52	2058	1188.06	2448	1413.96
360	8	1432	687.04	1848	1007.12	2344	1295.36	2744	1584.08	3264	1885.28
450	10	1790	858.80	2310	1258.90	2930	1619.20	3430	1980.10	4080	2356.60
540	12	2148	1030.56	2772	1510.68	3516	1943.04	4116	2376.12	4896	2827.92
630	14	2506	1202.32	3234	1762.46	4102	2266.88	4802	2772.14	5712	3299.24
720	16	2864	1374.08	3696	2014.24	4688	2590.72	5488	3168.16	6528	3770.56
810	18	3222	1545.84	4158	2266.02	5274	2914.56	6174	3564.18	7344	4241.88
900	20	3580	1717.60	4620	2517.80	5860	3238.40	6860	3960.20	8160	4713.20
990	22	3938	1889.36	5082	2769.58	6446	3562.24	7546	4356.22	8976	5184.52
1080	24	4296	2061.12	5544	3021.36	7032	3886.08	8232	4752.24	9792	5655.84
1170	26	4654	2232.88	6006	3273.14	7618	4209.92	8918	5148.26	10608	6127.16
1260	28	5012	2404.64	6468	3524.92	8204	4533.76	9604	5544.28	11424	6598.48
1350	30	5370	2576.40	6930	3776.70	8790	4857.60	10290	5940.30	12240	7069.80
1440	32	5728	2748.16								
1530	34	6086	2919.92								
1620	36	6444	3091.68								
1710	38	6802	3263.44								
1800	40	7160	3435.20								
1890	42	7518	3606.96								
1980	44	7876	3778.72								
2070	46	8234	3950.48								
2160	48	8592	4122.24								
2250	50	8950	4294.00								
2340	52	9308	4465.76								
2430	54	9666	4637.52								
2520	56	10024	4809.28								
2610	58	10382	4981.04								
2700	60	10740	5152.80								

Maximum number of elements per block	42	30	30	30	22
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

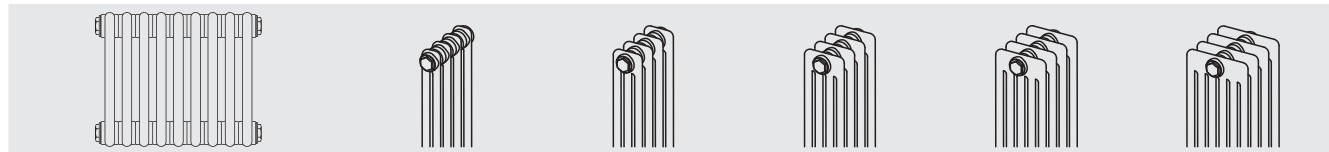
Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 2800 MM

with heat outputs depending on length and depth



Model	2280	3280	4280	5280	6280
Order number	RRN20280...2.XA	RRN30280...2.XA	RRN40280...2.XA	RRN50280...2.XA	RRN60280...2.XA
Height H [mm]	2800	2800	2800	2800	2800
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	3.50	5.25	7.00	8.81	10.59
Exponent n []	1.3300	1.3400	1.3400	1.3500	1.3800
Standard heat output Φ _s [watts/el.]	200	255	323	374	448
Price per element [EUR/el.]	96.65	140.21	183.19	220.17	264.68

Length L [mm]	Length [el.]	Φ _s ΔT 50 K [watt]	Price [EUR]	Φ _s ΔT 50 K [watt]	Price [EUR]	Φ _s ΔT 50 K [watt]	Price [EUR]	Φ _s ΔT 50 K [watt]	Price [EUR]	Φ _s ΔT 50 K [watt]	Price [EUR]
270	6	1200	579.90	1530	841.26	1938	1099.14	2244	1321.02	2688	1588.08
360	8	1600	773.20	2040	1121.68	2584	1465.52	2992	1761.36	3584	2117.44
450	10	2000	966.50	2550	1402.10	3230	1831.90	3740	2201.70	4480	2646.80
540	12	2400	1159.80	3060	1682.52	3876	2198.28	4488	2642.04	5376	3176.16
630	14	2800	1353.10	3570	1962.94	4522	2564.66	5236	3082.38	6272	3705.52
720	16	3200	1546.40	4080	2243.36	5168	2931.04	5984	3522.72	7168	4234.88
810	18	3600	1739.70	4590	2523.78	5814	3297.42	6732	3963.06	8064	4764.24
900	20	4000	1933.00	5100	2804.20	6460	3663.80	7480	4403.40	8960	5293.60
990	22	4400	2126.30	5610	3084.62	7106	4030.18	8228	4843.74	9856	5822.96
1080	24	4800	2319.60	6120	3365.04	7752	4396.56	8976	5284.08	10752	6352.32
1170	26	5200	2512.90	6630	3645.46	8398	4762.94	9724	5724.42	11648	6881.68
1260	28	5600	2706.20	7140	3925.88	9044	5129.32	10472	6164.76	12544	7411.04
1350	30	6000	2899.50	7650	4206.30	9690	5495.70	11220	6605.10	13440	7940.40
1440	32	6400	3092.80								
1530	34	6800	3286.10								
1620	36	7200	3479.40								
1710	38	7600	3672.70								
1800	40	8000	3866.00								
1890	42	8400	4059.30								
1980	44	8800	4252.60								
2070	46	9200	4445.90								
2160	48	9600	4639.20								
2250	50	10000	4832.50								
2340	52	10400	5025.80								
2430	54	10800	5219.10								
2520	56	11200	5412.40								
2610	58	11600	5605.70								
2700	60	12000	5799.00								

Maximum number of elements per block	42	30	30	26	22
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_s at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

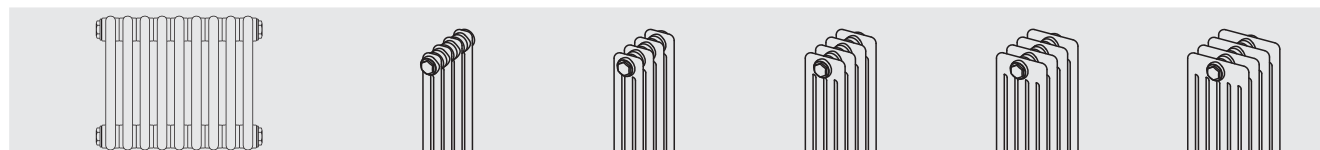
Connection system	Connection arrangement	Surcharge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98 50 and 70	356.38 € 243.66 €
	61, 81, 62, and 82	342.43 €
	Valve on side at bottom 96, 98, 05, and 07	455.15 €

The specifications in orange font on the connection system and connection sequence are available via the order number.



PRICES AND OUTPUTS – HEIGHT OF 3000 MM

with heat outputs depending on length and depth



Model	2300	3300	4300	5300	6300
Order number	RRN20300...2.XA	RRN30300...2.XA	RRN40300...2.XA	RRN50300...2.XA	RRN60300...2.XA
Height H [mm]	3000	3000	3000	3000	3000
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	3.75	5.62	7.49	9.42	11.31
Exponent n []	1.3300	1.3300	1.3400	1.3500	1.3800
Standard heat output Φ_s [watts/el.]	214	270	343	394	474
Price per element [EUR/el.]	103.26	151.78	196.14	235.66	281.81

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	1284	619.56	1620	910.68	2058	1176.84	2364	1413.96	2844	1690.86
360	8	1712	826.08	2160	1214.24	2744	1569.12	3152	1885.28	3792	2254.48
450	10	2140	1032.60	2700	1517.80	3430	1961.40	3940	2356.60	4740	2818.10
540	12	2568	1239.12	3240	1821.36	4116	2353.68	4728	2827.92	5688	3381.72
630	14	2996	1445.64	3780	2124.92	4802	2745.96	5516	3299.24	6636	3945.34
720	16	3424	1652.16	4320	2428.48	5488	3138.24	6304	3770.56	7584	4508.96
810	18	3852	1858.68	4860	2732.04	6174	3530.52	7092	4241.88	8532	5072.58
900	20	4280	2065.20	5400	3035.60	6860	3922.80	7880	4713.20	9480	5636.20
990	22	4708	2271.72	5940	3339.16	7546	4315.08	8668	5184.52	10428	6199.82
1080	24	5136	2478.24	6480	3642.72	8232	4707.36	9456	5655.84	11376	6763.44
1170	26	5564	2684.76	7020	3946.28	8918	5099.64	10244	6127.16	12324	7327.06
1260	28	5992	2891.28	7560	4249.84	9604	5491.92	11032	6598.48	13272	7890.68
1350	30	6420	3097.80	8100	4553.40	10290	5884.20	11820	7069.80	14220	8454.30
1440	32	6848	3304.32								
1530	34	7276	3510.84								
1620	36	7704	3717.36								
1710	38	8132	3923.88								
1800	40	8560	4130.40								
1890	42	8988	4336.92								
1980	44	9416	4543.44								
2070	46	9844	4749.96								
2160	48	10272	4956.48								
2250	50	10700	5163.00								
2340	52	11128	5369.52								
2430	54	11556	5576.04								
2520	56	11984	5782.56								
2610	58	12412	5989.08								
2700	60	12840	6195.60								

Maximum number of elements per block	42	30	30	26	22
Maximum number of elements for second block / third block	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Scope of delivery:

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Arbonia column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



2-PIPE CONNECTIONS WITHOUT BUILT-IN VALVE

Connection system	Order code I51	ζ value	Position ordering code				Connection size	Order code 7		Surcharge per radiator [EUR]
			6					VL	RL	
2-pipe, laterally	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			–
2-pipe, on side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			22.30
2-pipe, side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			53.65
2-pipe, from bottom, from top	2	2.5					G 3/8" G 1/2" G 3/4"	38 12 34 10	38 12 34 10	113.91
2-pipe, from bottom, from top, side by side	2	2.5					G 3/8" G 1/2"			
2-pipe, from bottom, from top	2	2.5					G 3/8" G 1/2" G 3/4"			156.83
2-pipe, from bottom, from top, centre	2	2.5					G 1/2"			
Special connections – design according to drawing – ordering code I51 = 99										On request

L: recommended position for air vent connection;

○ Standard cut-off wheel; ● 100 % tight cut-off wheel

The connection options 69, 89, 50, 70, 96, 98, 07, and 05 are not possible for all lengths (see price and output tables).

Starting from a height of 1800 mm, a drain is additionally built in for process engineering reasons.

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Code for the order number at position 13

R R N **2** X A

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Standard column radiator without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; air vent and blanking plug are included.



DIMENSIONAL DRAWINGS FOR STANDARD COLUMN RADIATORS



- L1: 1/2 x el. x 45 - 25
- L2: 1/2 x (el. - 1) x 45 - 25
- L3: 1/2 x (el. + 1) x 45 - 25
- H: height
- L: length
- N: hub distance

Number of columns	T [mm]	T1 [mm]
2 columns	65	32.5
3 columns	105	52.5
4 columns	145	72.5
5 columns	185	92.5
6 columns	225	112.5

General information

Model standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information



2-TUBE CONNECTIONS WITH BUILT-IN VALVE



General

- In this special version of the column radiator, a factory k_v -preset valve is built in.
- Maximum length like column radiators or Cambiotherm without built-in valve (see "Maximum length"):
 - Can be nipped with valve arranged at top (delivery in sub-blocks possible)
 - Cannot be nipped with valve arranged at bottom (delivered in a single piece)
 - Surface finish like column radiators without built-in valve

Range available

- Factory k_v -preset built-in valve, arranged at top or bottom, right or left
- Standard connection:
 - 2-pipe connection bottom or top, on same side (on the side of the valve) or centre with hub distance 50 mm
 - Connection size: G 1/2" internal thread or G 3/4" external thread
 - Flow welded into the 1st element, return into the 2nd element
 - For the version with valve arranged at the bottom, two air vents are provided
- Thermostatic sensor head is not included in the scope of delivery and must be ordered as an accessory
- Not available in high-pressure version

Special versions

- 2-pipe connections (for valve arranged at top or bottom, on request):
 - From top, on alternating sides
- Version as nipped additional block:
 - With valve arranged at top
 - Length 2 elements
- Column radiator, angled or curved version:
 - With valve arranged at top
 - The first three elements in each case cannot be angled or bent
- In the case of a connection from the top, the heat output can be reduced

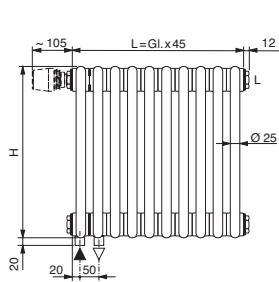
Connection system	Order code	Arrangement ordering code	Conn. size	Order code 7		Surcharge per radiator [EUR]	
				VL	RL		
2-pipe from bottom, built-in valve integrated laterally on top	31 Standard valve with M30 x 1.5 connection		G 1/2"	12	12	243.66	
	41 Valve with fine adjustment and M30 x 1.5 connection						
	32 Standard valve with clamp connection		G 3/4"	84	84	261.97	
	42 Valve with fine adjustment and clamp connection						
	2-pipe from bottom, built-in valve integrated on side at bottom	61 Standard valve with M30 x 1.5 connection		G 1/2"	12	12	342.43
		81 Valve with fine adjustment and M30 x 1.5 connection					
62 Standard valve with clamp connection			G 3/4"	84	84	360.74	
82 Valve with fine adjustment and clamp connection							
2-pipe from top, built-in valve integrated laterally on top	61 Standard valve with M30 x 1.5 connection		G 1/2"	12	12	455.15	
	81 Valve with fine adjustment and M30 x 1.5 connection						
	62 Standard valve with clamp connection		G 3/4"	84	84	473.46	
82 Valve with fine adjustment and clamp connection							
2-pipe from top, built-in valve integrated laterally at bottom	31 Standard valve with M30 x 1.5 connection		G 1/2"	12	12	243.66	
	41 Valve with fine adjustment and M30 x 1.5 connection						
	32 Standard valve with clamp connection		G 3/4"	84	84	261.97	
	42 Valve with fine adjustment and clamp connection						
	2-pipe from top, built-in valve integrated laterally at bottom	61 Standard valve with M30 x 1.5 connection		G 1/2"	12	12	342.43
		81 Valve with fine adjustment and M30 x 1.5 connection					
62 Standard valve with clamp connection			G 3/4"	84	84	360.74	
82 Valve with fine adjustment and clamp connection							
2-pipe from top, built-in valve integrated laterally at bottom	61 Standard valve with M30 x 1.5 connection		G 1/2"	12	12	455.15	
	81 Valve with fine adjustment and M30 x 1.5 connection						
	62 Standard valve with clamp connection		G 3/4"	84	84	473.46	
82 Valve with fine adjustment and clamp connection							

L: recommended position for air vent connection; G 1/2": internal thread; G 3/4": external thread



DIMENSIONAL DRAWINGS BUILT-IN VALVE AT TOP

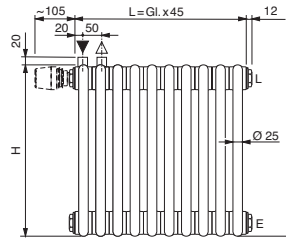
Connection (69) at bottom laterally^{1) 2)}



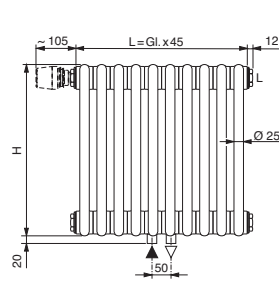
¹⁾ Minimum length: 4 elements

²⁾ For reasons of construction, there is no flow through the first element

Connection (50) top laterally^{1) 2)}



Connection (98) bottom centre³⁾

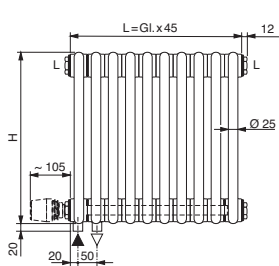


³⁾ Minimum length: 8 elements

Centre connection only possible with an even number of elements (for uneven number of elements connections are offset right or left)

DIMENSIONAL DRAWINGS BUILT-IN VALVE AT BOTTOM

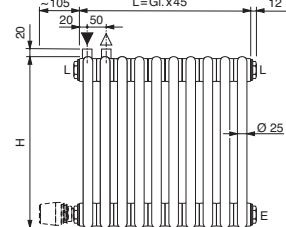
Connection (69) at bottom laterally^{1) 2)}



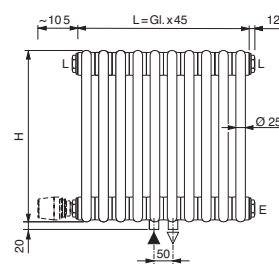
¹⁾ Minimum length: 4 elements

²⁾ For reasons of construction, there is no flow through the first element

Connection (50) at top laterally^{1) 2)}



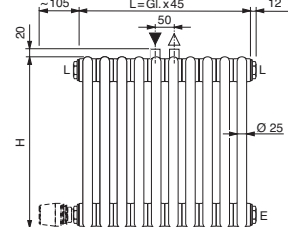
Connection (98) bottom centre³⁾



³⁾ Minimum length: 8 elements

Centre connection only possible with an even number of elements (for uneven number of elements connections offset right or left)

Connection (07) top centre³⁾



Note:

Please note the valve performance limits in the section "General information"

For connection images 98 and 96 with built-in valve on the side at bottom, the hot-dip galvanised version is not possible.

Order standard column radiators using completely configured order numbers

Standard column radiators with up to the maximum number of elements per block can be ordered with an order number.

Standard column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Code for the order number at position 13

R R V **6** X A

- Standard column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
 - Standard column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; air vent is installed.

General information

Model standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiators

Arbonia Individual



Fixing and dimensional drawings

Accessories

Further information



AIR VENT AND DRAIN

Description	Feature	Order code	Surcharge per radiator [EUR]
Air vent			
Type			
Air vent connection	8	4	–
Built-in air vent with rotatable outlet – standard version	8	1	9.83
No air vent, only if mandatory	8	3	–
Position			
Position recommended by factory – standard version ¹⁾	9	–	–
Position on request ²⁾	9		23.72
Connection size			
G 3/8" internal thread	10	38	–
G 1/2" internal thread	10	12	–
Drain			
Type			
No drain, only if mandatory – standard version ³⁾	11	3	–
Drain connection	11	4	–
Position			
Position recommended by factory – standard version ¹⁾	12	–	–
Position on request ²⁾	12		23.72
Connection size			
G 3/8" internal thread	13	38	–
G 1/2" internal thread	13	12	–

¹⁾ For position see diagrams for arrangement of the connections in the table "Connection options flow/return"

²⁾ If for technical reasons the connection cannot be placed at the desired position, it will instead be placed in the position recommended by the factory

³⁾ If for technical reasons a drain connection is necessary, it is built-in at the factory as standard

ARBONIA COLUMN RADIATORS: SANO RADIATORS



In the following section,
you will find:

- General, tender specifications
- Description
- Technical data
- Prices and outputs
- Connection options and dimensional drawing
- Air vent and drain



SANO RADIATORS

The Sano radiator is a special version for hospitals, retirement homes, sanatoriums, schools, children's homes, etc. The increased element spacing makes the Sano radiator especially easy to clean and hygienic.

You have made a good choice when you decide to install Arbonia Sano radiators. These beautiful, top quality, state-of-the-art products provide the comfort that a discerning developer expects: More comfort thanks to the ideal distribution of the heat through radiation and convection, more options thanks to the wide range of radiator dimensions available, but also more safety (complies with statutory accident insurance conditions), as they have no corners or sharp edges.

Special features:

- Especially easy to clean and hygienic
- A classic and timeless design
- Top in quality and comfort
- A uniquely large variety of models
- Powerful and comfortable
- High accident safety (compliant with statutory accident insurance)
- Safe and easy to install in accordance with VDI 6036

TENDER SPECIFICATIONS

Arbonia Sano radiators

2–6 columns made of steel; individual elements (length 65 mm) as a welded assembly, consisting of head pieces (band steel pressings) and round precision steel pipes. Blocks welded together from elements up to the maximum length of the delivery unit.

Ready to install with 4 threaded plugs for flow and return as well as for air vent and drain. Edges rounded on all sides with $R_{\min} = 2$ mm.

Coating according to DIN 55900 part 1 and part 2.

Design features comply with the basic principles for the testing of the occupational safety of radiators (statutory accident insurance).

Awarded for compliance with demanding hygiene requirements by a laboratory for microbiology and hygiene.

Pressure and leak tested.

Heat output tested and registered in accordance with EN 442.

CE-compliant.

Suitable for closed water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permissible operating temperature: 110 °C

Max. operating pressure:

2–6 columns 10 bar / 1000 kPa

2–6 columns 16 bar / 1600 kPa (high-pressure version)

Packed safely for transport.

RANGE AVAILABLE

- 5 depths: 65–225 mm (2–6 columns)
- 20 standard heights: 260–3000 mm
- Length:
 - Calculation: (number of elements x 65 mm) – 20 mm
 - Length gradation: 65 mm (1 element)
 - Minimum length: 370 mm (6 elements)
 - Maximum length see paragraph "Maximum length"
- 2-pipe connections, at side

For Sano radiators with connections on the same end, from a certain length and height an insert pipe is supplied at an extra charge to guarantee proper water circulation.

MAXIMUM LENGTH

For reasons of weight and transport, Sano radiators can only be shipped from the factory as a single piece up to a maximum length. If the maximum length is exceeded in a single piece, the Sano radiators will be delivered in several blocks (see price tables).

These blocks will have to be coupled together on site, or if necessary at the factory. The overall length for Sano radiators is limited to three blocks.

Sano radiators in high-pressure version cannot be nippedled. The overall length for the high-pressure version is thus limited to the number of elements per block.



General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information

SANO RADIATORS

The Sano radiator is a special version for hospitals, retirement homes, sanatoriums, schools, children's homes, etc. The increased element spacing makes the Sano radiator especially easy to clean and hygienic.

You have made a good choice when you decide to install Arbonia Sano radiators. These beautiful, top quality, state-of-the-art products provide the comfort that a discerning developer expects: More comfort thanks to the ideal distribution of the heat through radiation and convection, more options thanks to the wide range of radiator dimensions available, but also more safety (complies with statutory accident insurance conditions), as they have no corners or sharp edges.

Special features:

- Increased efficiency thanks to preset valves
- Especially easy to clean and hygienic
- A classic and timeless design
- Top in quality and comfort
- A uniquely large variety of models
- Powerful and comfortable
- High accident safety (compliant with statutory accident insurance)
- Safe and easy to install in accordance with VDI 6036

TENDER SPECIFICATIONS

Arbonia Sano radiators with built-in valve

2–6 columns made of steel; individual elements (length 65 mm) as a welded assembly, consisting of head pieces (band steel pressings) and round precision steel pipes. Blocks welded together from elements up to the maximum length of the delivery unit.

With integrated, adjustable valve insert. The k_v value is preset at the factory and adjusted to the heat output.

Ready to install with connections for flow and return as well as for air vent. Connection for drain optional. Edges rounded on all sides with $R_{min} = 2$ mm.

Coating according to DIN 55900 part 1 and part 2.

Design features comply with the basic principles for the testing of the occupational safety of radiators (statutory accident insurance).

Awarded for compliance with demanding hygiene requirements by a laboratory for microbiology and hygiene.

Pressure and leak tested.

Heat output tested and registered in accordance with EN 442.

CE-compliant.

Suitable for closed water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permissible operating temperature: 110 °C

Max. operating pressure:

2–6 columns 10 bar / 1000 kPa

Packed safely for transport.

RANGE AVAILABLE

- 5 depths: 65–225 mm (2–6 columns)
- 20 standard heights: 260–3000 mm
- Length:
 - Calculation: (number of elements x 65 mm) – 20 mm
 - Length gradation: 65 mm (1 element)
 - Minimum length: 370 mm (6 elements)
 - Maximum length see paragraph "Maximum length"
- Factory k_v -preset built-in valve, arranged at top or bottom, right or left
- Standard connection:
 - 2-pipe connection at bottom or top, on same side (on the side of the valve) with hub distance 50 mm
 - Connection size: G 1/2" internal thread
 - Flow welded into the 1st element, return into the 2nd element
 - For the version with valve arranged at the bottom, two air vents are provided
- Thermostatic sensor head is not included in the scope of delivery and must be ordered as an accessory
- Not available in high-pressure version

MAXIMUM LENGTH

For reasons of weight and transport, Sano radiators can only be shipped from the factory as a single piece up to a maximum length. If the maximum length is exceeded in a single piece, then the Sano radiators will be delivered in several blocks (see price tables).

These blocks will have to be coupled together on site, or if necessary at the factory. The overall length for Sano radiators is limited to three blocks.

Sano radiators in high-pressure version cannot be nippedled. The overall length for the high-pressure version is thus limited to the number of elements per block.



TECHNICAL DATA AND PRICE PER ELEMENT – HEIGHT 260–550 MM

Height H [mm]	Depth T [mm]	Model	Heat output EN 442				Exponent n []	Ø Mass per element M [kg/el.]	Surface per element A [m ² /el.]	Water content per element W [l/el.]	Standard water flow q _m [kg/h el.]	Radiation component s [%]	Price per element [EUR/el.]
			Φ ΔT 60 K 90/70/20 °C [watt/el.]	Φ _L ΔT 50 K 75/65/20 °C [watt/el.]	Φ ΔT 42 70/55/20 °C [watt/el.]	Φ ΔT 30 K 55/45/20 °C [watt/el.]							
260	65	M2026	31	25	20	13	1.25	0.42	0.04	0.34	1.6	49	54.06
	105	M3026	41	33	26	17	1.31	0.63	0.07	0.48	2.2	38	61.40
	145	M4026	53	42	34	21	1.30	0.84	0.09	0.63	2.8	33	67.36
	185	M5026	64	51	41	26	1.33	1.11	0.11	0.78	3.6	30	75.77
	225	M6026	78	61	49	30	1.36	1.34	0.13	0.93	4.0	27	84.22
300	65	M2030	35	28	23	15	1.26	0.47	0.05	0.37	1.9	49	54.54
	105	M3030	47	37	30	19	1.33	0.70	0.08	0.53	2.7	38	61.79
	145	M4030	60	48	38	24	1.33	0.93	0.10	0.69	3.4	33	68.32
	185	M5030	74	58	46	29	1.36	1.23	0.13	0.86	4.1	30	76.21
	225	M6030	89	70	55	34	1.39	1.49	0.15	1.02	4.9	27	84.65
350	65	M2035	40	32	25	16	1.31	0.53	0.06	0.41	2.2	49	54.64
	105	M3035	55	43	34	21	1.36	0.79	0.09	0.59	3.1	38	61.98
	145	M4035	70	55	44	27	1.35	1.06	0.12	0.77	4.0	33	69.36
	185	M5035	85	67	53	33	1.39	1.38	0.15	0.96	4.8	30	77.30
	225	M6035	103	81	63	39	1.41	1.67	0.18	1.14	5.7	27	86.05
400	65	M2040	45	36	28	18	1.31	0.59	0.07	0.45	2.4	49	55.15
	105	M3040	62	48	38	24	1.36	0.88	0.10	0.65	3.5	38	62.29
	145	M4040	79	62	49	31	1.35	1.18	0.13	0.85	4.5	33	70.25
	185	M5040	97	76	60	37	1.39	1.53	0.17	1.06	5.5	30	78.20
	225	M6040	117	91	72	44	1.41	1.85	0.20	1.26	6.5	27	87.54
450	65	M2045	49	39	31	20	1.31	0.65	0.07	0.49	2.8	49	55.57
	105	M3045	68	54	43	27	1.36	0.97	0.11	0.71	4.0	38	62.50
	145	M4045	88	69	55	34	1.35	1.30	0.15	0.93	5.0	33	71.37
	185	M5045	108	84	67	41	1.39	1.68	0.19	1.16	6.2	30	79.57
	225	M6045	131	102	80	49	1.41	2.03	0.22	1.38	7.2	27	88.68
500	65	M2050	54	43	34	22	1.31	0.71	0.08	0.53	3.2	49	56.47
	105	M3050	75	59	47	29	1.36	1.06	0.12	0.77	4.4	38	63.20
	145	M4050	97	76	61	38	1.35	1.42	0.17	1.01	5.6	33	72.93
	185	M5050	119	93	73	45	1.39	1.83	0.21	1.26	6.9	30	80.91
	225	M6050	144	112	88	54	1.41	2.21	0.25	1.50	8.1	27	90.24
550	65	M2055	59	47	37	24	1.31	0.77	0.09	0.57	3.5	49	57.43
	105	M3055	82	65	51	32	1.36	1.16	0.14	0.83	4.7	38	64.20
	145	M4055	106	83	66	41	1.35	1.54	0.18	1.09	6.1	33	74.46
	185	M5055	129	101	80	49	1.39	1.99	0.23	1.36	7.5	30	82.45
	225	M6055	158	123	97	59	1.41	2.40	0.27	1.62	8.9	27	92.47

For individual heat output calculations, see "General information"
Length calculation: length in mm = number of elements x 65 mm – 20 mm
Price calculation: price per radiator = length in elements x price per element
Note extra charge for specific connection images.

TECHNICAL DATA AND PRICE PER ELEMENT – HEIGHT 600–1500 MM

Height H [mm]	Depth T [mm]	Model	Heat output EN 442				Exponent n []	Ø Mass per element M [kg/el.]	Surface per element A [m ² /el.]	Water content per element W [l/el.]	Standard water flow q _m [kg/h el.]	Radiation component s [%]	Price per element [EUR/el.]
			Φ ΔT 60 K 90/70/20 °C [watt/el.]	Φ ΔT 50 K 75/65/20 °C [watt/el.]	Φ ΔT 42 70/55/20 °C [watt/el.]	Φ ΔT 30 K 55/45/20 °C [watt/el.]							
600	65	M2060	63	50	40	26	1.31	0.83	0.10	0.61	3.8	49	58.02
	105	M3060	89	70	55	35	1.36	1.25	0.15	0.89	5.2	38	65.76
	145	M4060	114	90	72	45	1.35	1.66	0.20	1.17	6.6	33	76.01
	185	M5060	141	110	87	54	1.39	2.14	0.25	1.45	8.2	30	84.22
	225	M6060	171	133	105	64	1.41	2.58	0.29	1.74	9.7	27	94.50
750	65	M2075	77	61	49	31	1.31	1.02	0.12	0.73	4.7	49	61.11
	105	M3075	109	86	68	42	1.36	1.52	0.18	1.07	6.5	38	69.54
	145	M4075	141	111	88	55	1.35	2.03	0.24	1.41	8.2	33	81.33
	185	M5075	172	135	107	66	1.39	2.59	0.30	1.75	10.1	30	91.59
	225	M6075	209	163	129	79	1.40	3.12	0.37	2.10	11.8	27	102.47
900	65	M2090	91	72	58	37	1.31	1.20	0.15	0.84	5.8	49	84.00
	105	M3090	128	101	80	50	1.36	1.79	0.22	1.25	7.7	38	96.65
	145	M4090	166	131	104	65	1.35	2.39	0.29	1.65	9.6	33	114.72
	185	M5090	204	160	126	78	1.39	3.05	0.36	2.05	11.9	30	127.41
	225	M6090	247	193	152	94	1.40	3.67	0.44	2.45	14.0	27	143.26
1000	65	M2100	100	79	63	40	1.32	1.32	0.16	0.92	6.3	49	85.41
	105	M3100	141	111	88	55	1.36	1.98	0.24	1.37	8.4	38	99.72
	145	M4100	183	144	115	72	1.35	2.63	0.32	1.81	10.7	33	119.02
	185	M5100	224	176	139	86	1.38	3.35	0.40	2.25	13.0	30	131.91
	225	M6100	271	212	167	103	1.40	4.03	0.48	2.69	15.5	27	149.01
1100	65	M2110	109	87	69	44	1.32	1.44	0.18	1.00	6.9	49	88.46
	105	M3110	155	122	97	61	1.35	2.16	0.27	1.49	9.2	38	105.35
	145	M4110	199	157	125	78	1.35	2.88	0.35	1.97	11.6	33	125.16
	185	M5110	245	192	152	94	1.38	3.65	0.44	2.45	14.2	30	142.23
	225	M6110	297	232	183	113	1.40	4.40	0.53	2.93	16.9	27	162.67
1200	65	M2120	119	94	75	48	1.32	1.56	0.19	1.08	7.4	49	91.59
	105	M3120	167	132	105	66	1.35	2.34	0.29	1.60	10.0	38	113.46
	145	M4120	216	170	135	85	1.35	3.12	0.38	2.13	12.6	33	133.30
	185	M5120	267	209	165	102	1.38	3.96	0.48	2.65	15.4	30	154.02
	225	M6120	321	251	198	122	1.40	4.76	0.58	3.17	18.0	27	174.42
1500	65	M2150	148	117	94	59	1.32	1.93	0.24	1.32	9.1	49	102.47
	105	M3150	207	163	130	81	1.35	2.89	0.36	1.96	12.3	38	130.04
	145	M4150	264	208	165	104	1.35	3.85	0.48	2.60	15.5	33	157.69
	185	M5150	327	257	204	127	1.37	4.87	0.60	3.24	18.5	30	184.55
	225	M6150	393	307	242	149	1.40	5.85	0.72	3.88	21.5	27	212.56

For individual heat output calculations, see "General information"
 Length calculation: length in mm = number of elements x 65 mm – 20 mm
 Price calculation: price per radiator = length in elements x price per element
 Note extra charge for specific connection images.



TECHNICAL DATA AND PRICE PER ELEMENT – HEIGHT 1800–3000 MM

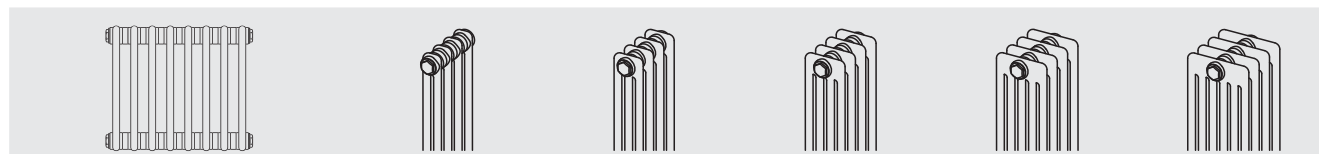
Height H [mm]	Depth T [mm]	Model	Heat output EN 442				Exponent n []	Ø Mass per element M [kg/el.]	Surface per element A [m²/el.]	Water content per element W [l/el.]	Standard water flow q _m [kg/h el.]	Radiation component s [%]	Price per element [EUR/el.]
			Φ ΔT 60 K 90/70/20 °C [watt/el.]	Φ _L ΔT 50 K 75/65/20 °C [watt/el.]	Φ ΔT 42 70/55/20 °C [watt/el.]	Φ ΔT 30 K 55/45/20 °C [watt/el.]							
1800	65	M2180	178	141	113	71	1.32	2.29	0.29	1.56	10.8	49	111.76
	105	M3180	245	193	153	96	1.35	3.43	0.43	2.32	14.6	38	147.08
	145	M4180	312	246	196	123	1.34	4.58	0.57	3.08	18.4	33	176.79
	185	M5180	388	305	242	150	1.37	5.78	0.72	3.84	22.0	30	206.73
	225	M6180	461	361	285	176	1.39	6.95	0.86	4.60	25.5	27	238.94
2000	65	M2200	198	157	125	79	1.32	2.53	0.32	1.72	12.0	49	119.59
	105	M3200	271	214	170	107	1.34	3.80	0.48	2.56	16.3	38	154.38
	145	M4200	342	270	215	135	1.34	5.06	0.64	3.40	20.4	33	190.22
	185	M5200	429	337	267	166	1.37	6.38	0.80	4.24	24.3	30	223.01
	225	M6200	507	397	314	194	1.39	7.67	0.95	5.08	28.4	27	257.72
2200	65	M2220	221	175	140	88	1.32	2.78	0.35	1.88	13.2	49	127.79
	105	M3220	298	235	187	118	1.34	4.16	0.52	2.80	17.9	38	167.70
	145	M4220	374	295	235	148	1.34	5.55	0.70	3.72	22.4	33	206.02
	185	M5220	469	369	293	183	1.36	6.99	0.87	4.64	26.5	30	242.14
	225	M6220	552	432	341	211	1.39	8.40	1.05	5.55	31.0	27	281.17
2500	65	M2250	254	201	161	102	1.32	3.14	0.40	2.12	15.0	49	136.04
	105	M3250	337	266	212	133	1.34	4.71	0.59	3.16	20.3	38	181.00
	145	M4250	419	331	264	166	1.34	6.27	0.79	4.19	25.4	33	221.91
	185	M5250	530	417	331	206	1.36	7.90	0.99	5.23	29.8	30	261.34
	225	M6250	617	483	382	235	1.39	9.49	1.19	6.27	37.4	27	304.47
2800	65	M2280	291	230	184	116	1.33	3.50	0.44	2.36	16.8	49	146.70
	105	M3280	376	297	237	149	1.34	5.25	0.67	3.51	22.5	38	195.17
	145	M4280	464	366	292	183	1.34	7.00	0.89	4.67	28.2	33	242.69
	185	M5280	591	466	371	232	1.35	8.81	1.11	5.83	33.1	30	283.06
	225	M6280	680	533	422	261	1.38	10.59	1.33	6.99	38.6	27	332.71
3000	65	M2300	316	250	199	126	1.33	3.75	0.48	2.51	17.9	49	153.07
	105	M3300	402	318	254	160	1.33	5.62	0.71	3.75	24.0	38	206.28
	145	M4300	494	390	311	195	1.34	7.49	0.95	4.99	30.1	33	255.31
	185	M5300	632	498	396	248	1.35	9.42	1.19	6.23	35.3	30	298.16
	225	M6300	722	566	448	277	1.38	11.31	1.43	7.46	41.3	27	349.49

For individual heat output calculations, see "General information"
 Length calculation: length in mm = number of elements x 65 mm – 20 mm
 Price calculation: price per radiator = length in elements x price per element
 Note extra charge for specific connection images.



PRICES AND OUTPUTS – HEIGHT OF 260 MM

with heat outputs depending on length and depth



Model		M2026	M3026	M4026	M5026	M6026
Height H	[mm]	260	260	260	260	260
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.42	0.63	0.84	1.11	1.34
Exponent n	[]	1.2500	1.3100	1.3000	1.3300	1.3600
Standard heat output Φ_s	[watts/el.]	25	33	42	51	61
Price per element	[EUR/el.]	54.06	61.40	67.36	75.77	84.22

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	149	324.36	197	368.40	251	404.16	306	454.62	367	505.32
500	8	198	432.48	262	491.20	334	538.88	408	606.16	489	673.76
630	10	248	540.60	328	614.00	418	673.60	510	757.70	611	842.20
760	12	298	648.72	394	736.80	502	808.32	612	909.24	733	1010.64
890	14	347	756.84	459	859.60	585	943.04	714	1060.78	855	1179.08
1020	16	397	864.96	525	982.40	669	1077.76	816	1212.32	978	1347.52
1150	18	446	973.08	590	1105.20	752	1212.48	918	1363.86	1100	1515.96
1280	20	496	1081.20	656	1228.00	836	1347.20	1020	1515.40	1222	1684.40
1410	22	546	1189.32	722	1350.80	920	1481.92	1122	1666.94	1344	1852.84
1540	24	595	1297.44	787	1473.60	1003	1616.64	1224	1818.48	1466	2021.28
1670	26	645	1405.56	853	1596.40	1087	1751.36	1326	1970.02	1589	2189.72
1800	28	694	1513.68	918	1719.20	1170	1886.08	1428	2121.56	1711	2358.16
1930	30	744	1621.80	984	1842.00	1254	2020.80	1530	2273.10	1833	2526.60
2060	32	794	1729.92	1050	1964.80	1338	2155.52	1632	2424.64	1955	2695.04
2190	34	843	1838.04	1115	2087.60	1421	2290.24	1734	2576.18	2077	2863.48
2320	36	893	1946.16	1181	2210.40	1505	2424.96	1836	2727.72	2200	3031.92
2450	38	942	2054.28	1246	2333.20	1588	2559.68	1938	2879.26	2322	3200.36
2580	40	992	2162.40	1312	2456.00	1672	2694.40	2040	3030.80	2444	3368.80
2710	42	1042	2270.52	1378	2578.80	1756	2829.12	2142	3182.34	2566	3537.24
2840	44	1091	2378.64	1443	2701.60	1839	2963.84	2244	3333.88	2688	3705.68
2970	46	1141	2486.76	1509	2824.40	1923	3098.56	2346	3485.42	2811	3874.12
3100	48	1190	2594.88	1574	2947.20	2006	3233.28	2448	3636.96	2933	4042.56
3230	50	1240	2703.00	1640	3070.00	2090	3368.00	2550	3788.50	3055	4211.00
3360	52	1290	2811.12	1706	3192.80	2174	3502.72	2652	3940.04	3177	4379.44
3490	54	1339	2919.24	1771	3315.60	2257	3637.44	2754	4091.58	3299	4547.88
3620	56	1389	3027.36	1837	3438.40	2341	3772.16	2856	4243.12	3422	4716.32
3750	58	1438	3135.48	1902	3561.20	2424	3906.88	2958	4394.66	3544	4884.76
3880	60	1488	3243.60	1968	3684.00	2508	4041.60	3060	4546.20	3666	5053.20

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 300 MM

with heat outputs depending on length and depth



Model		M2030	M3030	M4030	M5030	M6030
Height H	[mm]	300	300	300	300	300
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.47	0.70	0.93	1.23	1.49
Exponent n	[]	1.2600	1.3300	1.3300	1.3600	1.3900
Standard heat output Φ_s	[watts/el.]	28	37	48	58	70
Price per element	[EUR/el.]	54.54	61.79	68.32	76.21	84.65

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K	
		Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]				
370	6	167	327.24	224	370.74	286	409.92	349	457.26	419	507.90
500	8	223	436.32	298	494.32	382	546.56	465	609.68	558	677.20
630	10	279	545.40	373	617.90	477	683.20	581	762.10	698	846.50
760	12	335	654.48	448	741.48	572	819.84	697	914.52	838	1015.80
890	14	391	763.56	522	865.06	668	956.48	813	1066.94	977	1185.10
1020	16	446	872.64	597	988.64	763	1093.12	930	1219.36	1117	1354.40
1150	18	502	981.72	671	1112.22	859	1229.76	1046	1371.78	1256	1523.70
1280	20	558	1090.80	746	1235.80	954	1366.40	1162	1524.20	1396	1693.00
1410	22	614	1199.88	821	1359.38	1049	1503.04	1278	1676.62	1536	1862.30
1540	24	670	1308.96	895	1482.96	1145	1639.68	1394	1829.04	1675	2031.60
1670	26	725	1418.04	970	1606.54	1240	1776.32	1511	1981.46	1815	2200.90
1800	28	781	1527.12	1044	1730.12	1336	1912.96	1627	2133.88	1954	2370.20
1930	30	837	1636.20	1119	1853.70	1431	2049.60	1743	2286.30	2094	2539.50
2060	32	893	1745.28	1194	1977.28	1526	2186.24	1859	2438.72	2234	2708.80
2190	34	949	1854.36	1268	2100.86	1622	2322.88	1975	2591.14	2373	2878.10
2320	36	1004	1963.44	1343	2224.44	1717	2459.52	2092	2743.56	2513	3047.40
2450	38	1060	2072.52	1417	2348.02	1813	2596.16	2208	2895.98	2652	3216.70
2580	40	1116	2181.60	1492	2471.60	1908	2732.80	2324	3048.40	2792	3386.00
2710	42	1172	2290.68	1567	2595.18	2003	2869.44	2440	3200.82	2932	3555.30
2840	44	1228	2399.76	1641	2718.76	2099	3006.08	2556	3353.24	3071	3724.60
2970	46	1283	2508.84	1716	2842.34	2194	3142.72	2673	3505.66	3211	3893.90
3100	48	1339	2617.92	1790	2965.92	2290	3279.36	2789	3658.08	3350	4063.20
3230	50	1395	2727.00	1865	3089.50	2385	3416.00	2905	3810.50	3490	4232.50
3360	52	1451	2836.08	1940	3213.08	2480	3552.64	3021	3962.92	3630	4401.80
3490	54	1507	2945.16	2014	3336.66	2576	3689.28	3137	4115.34	3769	4571.10
3620	56	1562	3054.24	2089	3460.24	2671	3825.92	3254	4267.76	3909	4740.40
3750	58	1618	3163.32	2163	3583.82	2767	3962.56	3370	4420.18	4048	4909.70
3880	60	1674	3272.40	2238	3707.40	2862	4099.20	3486	4572.60	4188	5079.00
Maximum number of elements per block		46		46		46		46		46	
Maximum number of elements for second block / third block		15 / 15		15 / 15		15 / 15		15 / 15		15 / 15	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

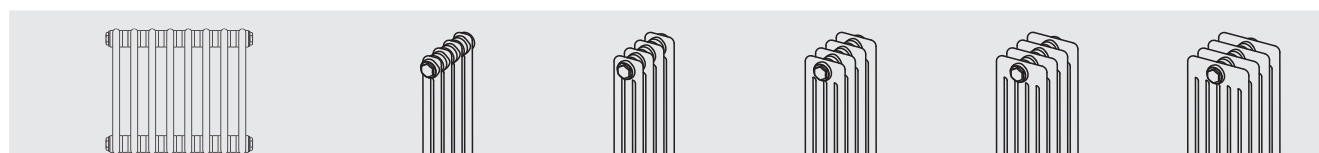
Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 350 MM

with heat outputs depending on length and depth



Model		M2035	M3035	M4035	M5035	M6035
Height H	[mm]	350	350	350	350	350
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.53	0.79	1.06	1.38	1.67
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s	[watts/el.]	32	43	55	67	81
Price per element	[EUR/el.]	54.64	61.98	69.36	77.30	86.05

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	190	327.84	257	371.88	329	416.16	401	463.80	484	516.30
500	8	254	437.12	343	495.84	439	554.88	535	618.40	645	688.40
630	10	317	546.40	429	619.80	549	693.60	669	773.00	806	860.50
760	12	380	655.68	515	743.76	659	832.32	803	927.60	967	1032.60
890	14	444	764.96	601	867.72	769	971.04	937	1082.20	1128	1204.70
1020	16	507	874.24	686	991.68	878	1109.76	1070	1236.80	1290	1376.80
1150	18	571	983.52	772	1115.64	988	1248.48	1204	1391.40	1451	1548.90
1280	20	634	1092.80	858	1239.60	1098	1387.20	1338	1546.00	1612	1721.00
1410	22	697	1202.08	944	1363.56	1208	1525.92	1472	1700.60	1773	1893.10
1540	24	761	1311.36	1030	1487.52	1318	1664.64	1606	1855.20	1934	2065.20
1670	26	824	1420.64	1115	1611.48	1427	1803.36	1739	2009.80	2096	2237.30
1800	28	888	1529.92	1201	1735.44	1537	1942.08	1873	2164.40	2257	2409.40
1930	30	951	1639.20	1287	1859.40	1647	2080.80	2007	2319.00	2418	2581.50
2060	32	1014	1748.48	1373	1983.36	1757	2219.52	2141	2473.60	2579	2753.60
2190	34	1078	1857.76	1459	2107.32	1867	2358.24	2275	2628.20	2740	2925.70
2320	36	1141	1967.04	1544	2231.28	1976	2496.96	2408	2782.80	2902	3097.80
2450	38	1205	2076.32	1630	2355.24	2086	2635.68	2542	2937.40	3063	3269.90
2580	40	1268	2185.60	1716	2479.20	2196	2774.40	2676	3092.00	3224	3442.00
2710	42	1331	2294.88	1802	2603.16	2306	2913.12	2810	3246.60	3385	3614.10
2840	44	1395	2404.16	1888	2727.12	2416	3051.84	2944	3401.20	3546	3786.20
2970	46	1458	2513.44	1973	2851.08	2525	3190.56	3077	3555.80	3708	3958.30
3100	48	1522	2622.72	2059	2975.04	2635	3329.28	3211	3710.40	3869	4130.40
3230	50	1585	2732.00	2145	3099.00	2745	3468.00	3345	3865.00	4030	4302.50
3360	52	1648	2841.28	2231	3222.96	2855	3606.72	3479	4019.60	4191	4474.60
3490	54	1712	2950.56	2317	3346.92	2965	3745.44	3613	4174.20	4352	4646.70
3620	56	1775	3059.84	2402	3470.88	3074	3884.16	3746	4328.80	4514	4818.80
3750	58	1839	3169.12	2488	3594.84	3184	4022.88	3880	4483.40	4675	4990.90
3880	60	1902	3278.40	2574	3718.80	3294	4161.60	4014	4638.00	4836	5163.00

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

✂ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 400 MM

with heat outputs depending on length and depth



Model		M2040	M3040	M4040	M5040	M6040
Height H	[mm]	400	400	400	400	400
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.59	0.88	1.18	1.53	1.85
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s	[watts/el.]	36	48	62	76	91
Price per element	[EUR/el.]	55.15	62.29	70.25	78.20	87.54

Length L	Length	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	213	330.90	290	373.74	373	421.50	454	469.20	547	525.24
500	8	284	441.20	387	498.32	497	562.00	605	625.60	730	700.32
630	10	355	551.50	484	622.90	621	702.50	756	782.00	912	875.40
760	12	426	661.80	581	747.48	745	843.00	907	938.40	1094	1050.48
890	14	497	772.10	678	872.06	869	983.50	1058	1094.80	1277	1225.56
1020	16	568	882.40	774	996.64	994	1124.00	1210	1251.20	1459	1400.64
1150	18	639	992.70	871	1121.22	1118	1264.50	1361	1407.60	1642	1575.72
1280	20	710	1103.00	968	1245.80	1242	1405.00	1512	1564.00	1824	1750.80
1410	22	781	1213.30	1065	1370.38	1366	1545.50	1663	1720.40	2006	1925.88
1540	24	852	1323.60	1162	1494.96	1490	1686.00	1814	1876.80	2189	2100.96
1670	26	923	1433.90	1258	1619.54	1615	1826.50	1966	2033.20	2371	2276.04
1800	28	994	1544.20	1355	1744.12	1739	1967.00	2117	2189.60	2554	2451.12
1930	30	1065	1654.50	1452	1868.70	1863	2107.50	2268	2346.00	2736	2626.20
2060	32	1136	1764.80	1549	1993.28	1987	2248.00	2419	2502.40	2918	2801.28
2190	34	1207	1875.10	1646	2117.86	2111	2388.50	2570	2658.80	3101	2976.36
2320	36	1278	1985.40	1742	2242.44	2236	2529.00	2722	2815.20	3283	3151.44
2450	38	1349	2095.70	1839	2367.02	2360	2669.50	2873	2971.60	3466	3326.52
2580	40	1420	2206.00	1936	2491.60	2484	2810.00	3024	3128.00	3648	3501.60
2710	42	1491	2316.30	2033	2616.18	2608	2950.50	3175	3284.40	3830	3676.68
2840	44	1562	2426.60	2130	2740.76	2732	3091.00	3326	3440.80	4013	3851.76
2970	46	1633	2536.90	2226	2865.34	2857	3231.50	3478	3597.20	4195	4026.84
3100	48	1704	2647.20	2323	2989.92	2981	3372.00	3629	3753.60	4378	4201.92
3230	50	1775	2757.50	2420	3114.50	3105	3512.50	3780	3910.00	4560	4377.00
3360	52	1846	2867.80	2517	3239.08	3229	3653.00	3931	4066.40	4742	4552.08
3490	54	1917	2978.10	2614	3363.66	3353	3793.50	4082	4222.80	4925	4727.16
3620	56	1988	3088.40	2710	3488.24	3478	3934.00	4234	4379.20	5107	4902.24
3750	58	2059	3198.70	2807	3612.82	3602	4074.50	4385	4535.60	5290	5077.32
3880	60	2130	3309.00	2904	3737.40	3726	4215.00	4536	4692.00	5472	5252.40

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 450 MM

with heat outputs depending on length and depth



Model		M2045	M3045	M4045	M5045	M6045
Height H	[mm]	450	450	450	450	450
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.65	0.97	1.30	1.68	2.03
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s	[watts/el.]	39	54	69	84	102
Price per element	[EUR/el.]	55.57	62.50	71.37	79.57	88.68

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	235	333.42	323	375.00	415	428.22	506	477.42	612	532.08
500	8	314	444.56	430	500.00	554	570.96	674	636.56	816	709.44
630	10	392	555.70	538	625.00	692	713.70	843	795.70	1020	886.80
760	12	470	666.84	646	750.00	830	856.44	1012	954.84	1224	1064.16
890	14	549	777.98	753	875.00	969	999.18	1180	1113.98	1428	1241.52
1020	16	627	889.12	861	1000.00	1107	1141.92	1349	1273.12	1632	1418.88
1150	18	706	1000.26	968	1125.00	1246	1284.66	1517	1432.26	1836	1596.24
1280	20	784	1111.40	1076	1250.00	1384	1427.40	1686	1591.40	2040	1773.60
1410	22	862	1222.54	1184	1375.00	1522	1570.14	1855	1750.54	2244	1950.96
1540	24	941	1333.68	1291	1500.00	1661	1712.88	2023	1909.68	2448	2128.32
1670	26	1019	1444.82	1399	1625.00	1799	1855.62	2192	2068.82	2652	2305.68
1800	28	1098	1555.96	1506	1750.00	1938	1998.36	2360	2227.96	2856	2483.04
1930	30	1176	1667.10	1614	1875.00	2076	2141.10	2529	2387.10	3060	2660.40
2060	32	1254	1778.24	1722	2000.00	2214	2283.84	2698	2546.24	3264	2837.76
2190	34	1333	1889.38	1829	2125.00	2353	2426.58	2866	2705.38	3468	3015.12
2320	36	1411	2000.52	1937	2250.00	2491	2569.32	3035	2864.52	3672	3192.48
2450	38	1490	2111.66	2044	2375.00	2630	2712.06	3203	3023.66	3876	3369.84
2580	40	1568	2222.80	2152	2500.00	2768	2854.80	3372	3182.80	4080	3547.20
2710	42	1646	2333.94	2260	2625.00	2906	2997.54	3541	3341.94	4284	3724.56
2840	44	1725	2445.08	2367	2750.00	3045	3140.28	3709	3501.08	4488	3901.92
2970	46	1803	2556.22	2475	2875.00	3183	3283.02	3878	3660.22	4692	4079.28
3100	48	1882	2667.36	2582	3000.00	3322	3425.76	4046	3819.36	4896	4256.64
3230	50	1960	2778.50	2690	3125.00	3460	3568.50	4215	3978.50	5100	4434.00
3360	52	2038	2889.64	2798	3250.00	3598	3711.24	4384	4137.64	5304	4611.36
3490	54	2117	3000.78	2905	3375.00	3737	3853.98	4552	4296.78	5508	4788.72
3620	56	2195	3111.92	3013	3500.00	3875	3996.72	4721	4455.92	5712	4966.08
3750	58	2274	3223.06	3120	3625.00	4014	4139.46	4889	4615.06	5916	5143.44
3880	60	2352	3334.20	3228	3750.00	4152	4282.20	5058	4774.20	6120	5320.80

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 500 MM

with heat outputs depending on length and depth



Model		M2050	M3050	M4050	M5050	M6050
Height H	[mm]	500	500	500	500	500
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.71	1.06	1.42	1.83	2.21
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s	[watts/el.]	43	59	76	93	112
Price per element	[EUR/el.]	56.47	63.20	72.93	80.91	90.24

Length L [mm]	Length [el.]	Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K	
		Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]				
370	6	257	338.82	355	379.20	457	437.58	557	485.46	672	541.44
500	8	343	451.76	473	505.60	610	583.44	742	647.28	896	721.92
630	10	429	564.70	591	632.00	762	729.30	928	809.10	1120	902.40
760	12	515	677.64	709	758.40	914	875.16	1114	970.92	1344	1082.88
890	14	601	790.58	827	884.80	1067	1021.02	1299	1132.74	1568	1263.36
1020	16	686	903.52	946	1011.20	1219	1166.88	1485	1294.56	1792	1443.84
1150	18	772	1016.46	1064	1137.60	1372	1312.74	1670	1456.38	2016	1624.32
1280	20	858	1129.40	1182	1264.00	1524	1458.60	1856	1618.20	2240	1804.80
1410	22	944	1242.34	1300	1390.40	1676	1604.46	2042	1780.02	2464	1985.28
1540	24	1030	1355.28	1418	1516.80	1829	1750.32	2227	1941.84	2688	2165.76
1670	26	1115	1468.22	1537	1643.20	1981	1896.18	2413	2103.66	2912	2346.24
1800	28	1201	1581.16	1655	1769.60	2134	2042.04	2598	2265.48	3136	2526.72
1930	30	1287	1694.10	1773	1896.00	2286	2187.90	2784	2427.30	3360	2707.20
2060	32	1373	1807.04	1891	2022.40	2438	2333.76	2970	2589.12	3584	2887.68
2190	34	1459	1919.98	2009	2148.80	2591	2479.62	3155	2750.94	3808	3068.16
2320	36	1544	2032.92	2128	2275.20	2743	2625.48	3341	2912.76	4032	3248.64
2450	38	1630	2145.86	2246	2401.60	2896	2771.34	3526	3074.58	4256	3429.12
2580	40	1716	2258.80	2364	2528.00	3048	2917.20	3712	3236.40	4480	3609.60
2710	42	1802	2371.74	2482	2654.40	3200	3063.06	3898	3398.22	4704	3790.08
2840	44	1888	2484.68	2600	2780.80	3353	3208.92	4083	3560.04	4928	3970.56
2970	46	1973	2597.62	2719	2907.20	3505	3354.78	4269	3721.86	5152	4151.04
3100	48	2059	2710.56	2837	3033.60	3658	3500.64	4454	3883.68	5376	4331.52
3230	50	2145	2823.50	2955	3160.00	3810	3646.50	4640	4045.50	5600	4512.00
3360	52	2231	2936.44	3073	3286.40	3962	3792.36	4826	4207.32	5824	4692.48
3490	54	2317	3049.38	3191	3412.80	4115	3938.22	5011	4369.14	6048	4872.96
3620	56	2402	3162.32	3310	3539.20	4267	4084.08	5197	4530.96	6272	5053.44
3750	58	2488	3275.26	3428	3665.60	4420	4229.94	5382	4692.78	6496	5233.92
3880	60	2574	3388.20	3546	3792.00	4572	4375.80	5568	4854.60	6720	5414.40

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

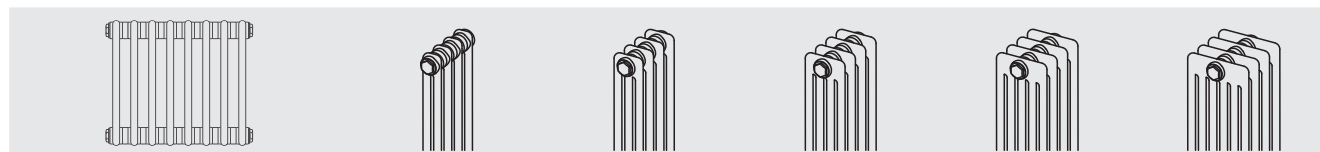
Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 550 MM

with heat outputs depending on length and depth



Model		M2055	M3055	M4055	M5055	M6055
Height H	[mm]	550	550	550	550	550
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.77	1.16	1.54	1.99	2.40
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_s	[watts/el.]	47	65	83	101	123
Price per element	[EUR/el.]	57.43	64.20	74.46	82.45	92.47

Length L	Length	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	279	344.58	387	385.20	499	446.76	606	494.70	738	554.82
500	8	372	459.44	516	513.60	666	595.68	808	659.60	984	739.76
630	10	465	574.30	645	642.00	832	744.60	1010	824.50	1230	924.70
760	12	558	689.16	774	770.40	998	893.52	1212	989.40	1476	1109.64
890	14	651	804.02	903	898.80	1165	1042.44	1414	1154.30	1722	1294.58
1020	16	744	918.88	1032	1027.20	1331	1191.36	1616	1319.20	1968	1479.52
1150	18	837	1033.74	1161	1155.60	1498	1340.28	1818	1484.10	2214	1664.46
1280	20	930	1148.60	1290	1284.00	1664	1489.20	2020	1649.00	2460	1849.40
1410	22	1023	1263.46	1419	1412.40	1830	1638.12	2222	1813.90	2706	2034.34
1540	24	1116	1378.32	1548	1540.80	1997	1787.04	2424	1978.80	2952	2219.28
1670	26	1209	1493.18	1677	1669.20	2163	1935.96	2626	2143.70	3198	2404.22
1800	28	1302	1608.04	1806	1797.60	2330	2084.88	2828	2308.60	3444	2589.16
1930	30	1395	1722.90	1935	1926.00	2496	2233.80	3030	2473.50	3690	2774.10
2060	32	1488	1837.76	2064	2054.40	2662	2382.72	3232	2638.40	3936	2959.04
2190	34	1581	1952.62	2193	2182.80	2829	2531.64	3434	2803.30	4182	3143.98
2320	36	1674	2067.48	2322	2311.20	2995	2680.56	3636	2968.20	4428	3328.92
2450	38	1767	2182.34	2451	2439.60	3162	2829.48	3838	3133.10	4674	3513.86
2580	40	1860	2297.20	2580	2568.00	3328	2978.40	4040	3298.00	4920	3698.80
2710	42	1953	2412.06	2709	2696.40	3494	3127.32	4242	3462.90	5166	3883.74
2840	44	2046	2526.92	2838	2824.80	3661	3276.24	4444	3627.80	5412	4068.68
2970	46	2139	2641.78	2967	2953.20	3827	3425.16	4646	3792.70	5658	4253.62
3100	48	2232	2756.64	3096	3081.60	3994	3574.08	4848	3957.60	5904	4438.56
3230	50	2325	2871.50	3225	3210.00	4160	3723.00	5050	4122.50	6150	4623.50
3360	52	2418	2986.36	3354	3338.40	4326	3871.92	5252	4287.40	6396	4808.44
3490	54	2511	3101.22	3483	3466.80	4493	4020.84	5454	4452.30	6642	4993.38
3620	56	2604	3216.08	3612	3595.20	4659	4169.76	5656	4617.20	6888	5178.32
3750	58	2697	3330.94	3741	3723.60	4826	4318.68	5858	4782.10	7134	5363.26
3880	60	2790	3445.80	3870	3852.00	4992	4467.60	6060	4947.00	7380	5548.20

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊗ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 600 MM

with heat outputs depending on length and depth



Model		M2060	M3060	M4060	M5060	M6060
Height H	[mm]	600	600	600	600	600
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.83	1.25	1.66	2.14	2.58
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4100
Standard heat output Φ_t	[watts/el.]	50	70	90	110	133
Price per element	[EUR/el.]	58.02	65.76	76.01	84.22	94.50

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K	
		Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]		
370	6	301	348.12	419	394.56	541	456.06	660	505.32	798	567.00
500	8	402	464.16	558	526.08	721	608.08	880	673.76	1064	756.00
630	10	502	580.20	698	657.60	901	760.10	1100	842.20	1330	945.00
760	12	602	696.24	838	789.12	1081	912.12	1320	1010.64	1596	1134.00
890	14	703	812.28	977	920.64	1261	1064.14	1540	1179.08	1862	1323.00
1020	16	803	928.32	1117	1052.16	1442	1216.16	1760	1347.52	2128	1512.00
1150	18	904	1044.36	1256	1183.68	1622	1368.18	1980	1515.96	2394	1701.00
1280	20	1004	1160.40	1396	1315.20	1802	1520.20	2200	1684.40	2660	1890.00
1410	22	1104	1276.44	1536	1446.72	1982	1672.22	2420	1852.84	2926	2079.00
1540	24	1205	1392.48	1675	1578.24	2162	1824.24	2640	2021.28	3192	2268.00
1670	26	1305	1508.52	1815	1709.76	2343	1976.26	2860	2189.72	3458	2457.00
1800	28	1406	1624.56	1954	1841.28	2523	2128.28	3080	2358.16	3724	2646.00
1930	30	1506	1740.60	2094	1972.80	2703	2280.30	3300	2526.60	3990	2835.00
2060	32	1606	1856.64	2234	2104.32	2883	2432.32	3520	2695.04	4256	3024.00
2190	34	1707	1972.68	2373	2235.84	3063	2584.34	3740	2863.48	4522	3213.00
2320	36	1807	2088.72	2513	2367.36	3244	2736.36	3960	3031.92	4788	3402.00
2450	38	1908	2204.76	2652	2498.88	3424	2888.38	4180	3200.36	5054	3591.00
2580	40	2008	2320.80	2792	2630.40	3604	3040.40	4400	3368.80	5320	3780.00
2710	42	2108	2436.84	2932	2761.92	3784	3192.42	4620	3537.24	5586	3969.00
2840	44	2209	2552.88	3071	2893.44	3964	3344.44	4840	3705.68	5852	4158.00
2970	46	2309	2668.92	3211	3024.96	4145	3496.46	5060	3874.12	6118	4347.00
3100	48	2410	2784.96	3350	3156.48	4325	3648.48	5280	4042.56	6384	4536.00
3230	50	2510	2901.00	3490	3288.00	4505	3800.50	5500	4211.00	6650	4725.00
3360	52	2610	3017.04	3630	3419.52	4685	3952.52	5720	4379.44	6916	4914.00
3490	54	2711	3133.08	3769	3551.04	4865	4104.54	5940	4547.88	7182	5103.00
3620	56	2811	3249.12	3909	3682.56	5046	4256.56	6160	4716.32	7448	5292.00
3750	58	2912	3365.16	4048	3814.08	5226	4408.58	6380	4884.76	7714	5481.00
3880	60	3012	3481.20	4188	3945.60	5406	4560.60	6600	5053.20	7980	5670.00
Maximum number of elements per block		46		46		46		46		46	
Maximum number of elements for second block / third block		15 / 15		15 / 15		15 / 15		15 / 15		15 / 15	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_t and Φ_s at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

✂ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

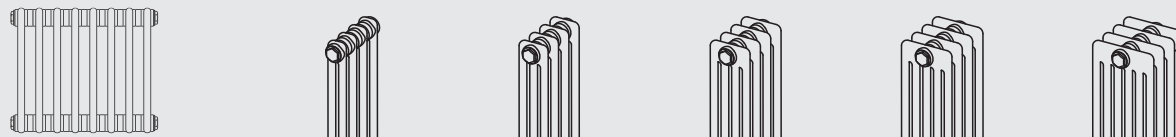
Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 750 MM

with heat outputs depending on length and depth



Model		M2075	M3075	M4075	M5075	M6075
Height H	[mm]	750	750	750	750	750
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.02	1.52	2.03	2.59	3.12
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4000
Standard heat output Φ_s	[watts/el.]	61	86	111	135	163
Price per element	[EUR/el.]	61.11	69.54	81.33	91.59	102.47

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	366	366.66	513	417.24	666	487.98	810	549.54	978	614.82
500	8	488	488.88	684	556.32	888	650.64	1080	732.72	1304	819.76
630	10	610	611.10	855	695.40	1110	813.30	1350	915.90	1630	1024.70
760	12	732	733.32	1026	834.48	1332	975.96	1620	1099.08	1956	1229.64
890	14	854	855.54	1197	973.56	1554	1138.62	1890	1282.26	2282	1434.58
1020	16	976	977.76	1368	1112.64	1776	1301.28	2160	1465.44	2608	1639.52
1150	18	1098	1099.98	1539	1251.72	1998	1463.94	2430	1648.62	2934	1844.46
1280	20	1220	1222.20	1710	1390.80	2220	1626.60	2700	1831.80	3260	2049.40
1410	22	1342	1344.42	1881	1529.88	2442	1789.26	2970	2014.98	3586	2254.34
1540	24	1464	1466.64	2052	1668.96	2664	1951.92	3240	2198.16	3912	2459.28
1670	26	1586	1588.86	2223	1808.04	2886	2114.58	3510	2381.34	4238	2664.22
1800	28	1708	1711.08	2394	1947.12	3108	2277.24	3780	2564.52	4564	2869.16
1930	30	1830	1833.30	2565	2086.20	3330	2439.90	4050	2747.70	4890	3074.10
2060	32	1952	1955.52	2736	2225.28	3552	2602.56	4320	2930.88	5216	3279.04
2190	34	2074	2077.74	2907	2364.36	3774	2765.22	4590	3114.06	5542	3483.98
2320	36	2196	2199.96	3078	2503.44	3996	2927.88	4860	3297.24	5868	3688.92
2450	38	2318	2322.18	3249	2642.52	4218	3090.54	5130	3480.42	6194	3893.86
2580	40	2440	2444.40	3420	2781.60	4440	3253.20	5400	3663.60	6520	4098.80
2710	42	2562	2566.62	3591	2920.68	4662	3415.86	5670	3846.78	6846	4303.74
2840	44	2684	2688.84	3762	3059.76	4884	3578.52	5940	4029.96	7172	4508.68
2970	46	2806	2811.06	3933	3198.84	5106	3741.18	6210	4213.14	7498	4713.62
3100	48	2928	2933.28	4104	3337.92	5328	3903.84	6480	4396.32	7824	4918.56
3230	50	3050	3055.50	4275	3477.00	5550	4066.50	6750	4579.50	8150	5123.50
3360	52	3172	3177.72	4446	3616.08	5772	4229.16	7020	4762.68	8476	5328.44
3490	54	3294	3299.94	4617	3755.16	5994	4391.82	7290	4945.86	8802	5533.38
3620	56	3416	3422.16	4788	3894.24	6216	4554.48	7560	5129.04	9128	5738.32
3750	58	3538	3544.38	4959	4033.32	6438	4717.14	7830	5312.22	9454	5943.26
3880	60	3660	3666.60	5130	4172.40	6660	4879.80	8100	5495.40	9780	6148.20
Maximum number of elements per block		46		46		46		46		46	
Maximum number of elements for second block / third block		15 / 15		15 / 15		15 / 15		15 / 15		15 / 15	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 900 MM

with heat outputs depending on length and depth



Model		M2090	M3090	M4090	M5090	M6090
Height H	[mm]	900	900	900	900	900
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.20	1.79	2.39	3.05	3.67
Exponent n	[]	1.3100	1.3600	1.3500	1.3900	1.4000
Standard heat output Φ_s	[watts/el.]	72	101	131	160	193
Price per element	[EUR/el.]	84.00	96.65	114.72	127.41	143.26

Length L [mm]	Length [el.]	Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K	
		[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	431	504.00	606	579.90	786	688.32	960	764.46	1158	859.56
500	8	575	672.00	808	773.20	1048	917.76	1280	1019.28	1544	1146.08
630	10	719	840.00	1010	966.50	1310	1147.20	1600	1274.10	1930	1432.60
760	12	863	1008.00	1212	1159.80	1572	1376.64	1920	1528.92	2316	1719.12
890	14	1007	1176.00	1414	1353.10	1834	1606.08	2240	1783.74	2702	2005.64
1020	16	1150	1344.00	1616	1546.40	2096	1835.52	2560	2038.56	3088	2292.16
1150	18	1294	1512.00	1818	1739.70	2358	2064.96	2880	2293.38	3474	2578.68
1280	20	1438	1680.00	2020	1933.00	2620	2294.40	3200	2548.20	3860	2865.20
1410	22	1582	1848.00	2222	2126.30	2882	2523.84	3520	2803.02	4246	3151.72
1540	24	1726	2016.00	2424	2319.60	3144	2753.28	3840	3057.84	4632	3438.24
1670	26	1869	2184.00	2626	2512.90	3406	2982.72	4160	3312.66	5018	3724.76
1800	28	2013	2352.00	2828	2706.20	3668	3212.16	4480	3567.48	5404	4011.28
1930	30	2157	2520.00	3030	2899.50	3930	3441.60	4800	3822.30	5790	4297.80
2060	32	2301	2688.00	3232	3092.80	4192	3671.04	5120	4077.12	6176	4584.32
2190	34	2445	2856.00	3434	3286.10	4454	3900.48	5440	4331.94	6562	4870.84
2320	36	2588	3024.00	3636	3479.40	4716	4129.92	5760	4586.76	6948	5157.36
2450	38	2732	3192.00	3838	3672.70	4978	4359.36	6080	4841.58	7334	5443.88
2580	40	2876	3360.00	4040	3866.00	5240	4588.80	6400	5096.40	7720	5730.40
2710	42	3020	3528.00	4242	4059.30	5502	4818.24	6720	5351.22	8106	6016.92
2840	44	3164	3696.00	4444	4252.60	5764	5047.68	7040	5606.04	8492	6303.44
2970	46	3307	3864.00	4646	4445.90	6026	5277.12	7360	5860.86	8878	6589.96
3100	48	3451	4032.00	4848	4639.20	6288	5506.56	7680	6115.68	9264	6876.48
3230	50	3595	4200.00	5050	4832.50	6550	5736.00	8000	6370.50	9650	7163.00
3360	52	3739	4368.00	5252	5025.80	6812	5965.44	8320	6625.32	10036	7449.52
3490	54	3883	4536.00	5454	5219.10	7074	6194.88	8640	6880.14	10422	7736.04
3620	56	4026	4704.00	5656	5412.40	7336	6424.32	8960	7134.96	10808	8022.56
3750	58	4170	4872.00	5858	5605.70	7598	6653.76	9280	7389.78	11194	8309.08
3880	60	4314	5040.00	6060	5799.00	7860	6883.20	9600	7644.60	11580	8595.60

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 1000 MM

with heat outputs depending on length and depth

Model	M2100	M3100	M4100	M5100	M6100
Height H [mm]	1000	1000	1000	1000	1000
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	1.32	1.98	2.63	3.35	4.03
Exponent n []	1.3200	1.3600	1.3500	1.3800	1.4000
Standard heat output Φ_s [watts/el.]	79	111	144	176	212
Price per element [EUR/el.]	85.41	99.72	119.02	131.91	149.01

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
370	6	476	512.46	666	598.32	864	714.12	1056	791.46	1272	894.06
500	8	634	683.28	888	797.76	1152	952.16	1408	1055.28	1696	1192.08
630	10	793	854.10	1110	997.20	1440	1190.20	1760	1319.10	2120	1490.10
760	12	952	1024.92	1332	1196.64	1728	1428.24	2112	1582.92	2544	1788.12
890	14	1110	1195.74	1554	1396.08	2016	1666.28	2464	1846.74	2968	2086.14
1020	16	1269	1366.56	1776	1595.52	2304	1904.32	2816	2110.56	3392	2384.16
1150	18	1427	1537.38	1998	1794.96	2592	2142.36	3168	2374.38	3816	2682.18
1280	20	1586	1708.20	2220	1994.40	2880	2380.40	3520	2638.20	4240	2980.20
1410	22	1745	1879.02	2442	2193.84	3168	2618.44	3872	2902.02	4664	3278.22
1540	24	1903	2049.84	2664	2393.28	3456	2856.48	4224	3165.84	5088	3576.24
1670	26	2062	2220.66	2886	2592.72	3744	3094.52	4576	3429.66	5512	3874.26
1800	28	2220	2391.48	3108	2792.16	4032	3332.56	4928	3693.48	5936	4172.28
1930	30	2379	2562.30	3330	2991.60	4320	3570.60	5280	3957.30	6360	4470.30
2060	32	2538	2733.12	3552	3191.04	4608	3808.64	5632	4221.12	6784	4768.32
2190	34	2696	2903.94	3774	3390.48	4896	4046.68	5984	4484.94	7208	5066.34
2320	36	2855	3074.76	3996	3589.92	5184	4284.72	6336	4748.76	7632	5364.36
2450	38	3013	3245.58	4218	3789.36	5472	4522.76	6688	5012.58	8056	5662.38
2580	40	3172	3416.40	4440	3988.80	5760	4760.80	7040	5276.40	8480	5960.40
2710	42	3331	3587.22	4662	4188.24	6048	4998.84	7392	5540.22	8904	6258.42
2840	44	3489	3758.04	4884	4387.68	6336	5236.88	7744	5804.04	9328	6556.44
2970	46	3648	3928.86	5106	4587.12	6624	5474.92	8096	6067.86	9752	6854.46
3100	48	3806	4099.68	5328	4786.56	6912	5712.96	8448	6331.68	10176	7152.48
3230	50	3965	4270.50	5550	4986.00	7200	5951.00	8800	6595.50	10600	7450.50
3360	52	4124	4441.32	5772	5185.44	7488	6189.04	9152	6859.32	11024	7748.52
3490	54	4282	4612.14	5994	5384.88	7776	6427.08	9504	7123.14	11448	8046.54
3620	56	4441	4782.96	6216	5584.32	8064	6665.12	9856	7386.96	11872	8344.56
3750	58	4599	4953.78	6438	5783.76	8352	6903.16	10208	7650.78	12296	8642.58
3880	60	4758	5124.60	6660	5983.20	8640	7141.20	10560	7914.60	12720	8940.60

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

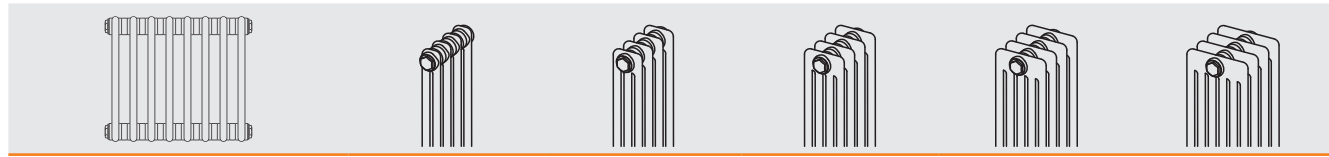
Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 1100 MM

with heat outputs depending on length and depth



Model		M2110	M3110	M4110	M5110	M6110
Height H	[mm]	1100	1100	1100	1100	1100
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.44	2.16	2.88	3.65	4.40
Exponent n	[]	1.3200	1.3500	1.3500	1.3800	1.4000
Standard heat output Φ_s	[watts/el.]	87	122	157	192	232
Price per element	[EUR/el.]	88.46	105.35	125.16	142.23	162.67

Length L [mm]	Length [el.]	Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K	
		[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	520	530.76	732	632.10	942	750.96	1152	853.38	1392	976.02
500	8	693	707.68	976	842.80	1256	1001.28	1536	1137.84	1856	1301.36
630	10	866	884.60	1220	1053.50	1570	1251.60	1920	1422.30	2320	1626.70
760	12	1039	1061.52	1464	1264.20	1884	1501.92	2304	1706.76	2784	1952.04
890	14	1212	1238.44	1708	1474.90	2198	1752.24	2688	1991.22	3248	2277.38
1020	16	1386	1415.36	1952	1685.60	2512	2002.56	3072	2275.68	3712	2602.72
1150	18	1559	1592.28	2196	1896.30	2826	2252.88	3456	2560.14	4176	2928.06
1280	20	1732	1769.20	2440	2107.00	3140	2503.20	3840	2844.60	4640	3253.40
1410	22	1905	1946.12	2684	2317.70	3454	2753.52	4224	3129.06	5104	3578.74
1540	24	2078	2123.04	2928	2528.40	3768	3003.84	4608	3413.52	5568	3904.08
1670	26	2252	2299.96	3172	2739.10	4082	3254.16	4992	3697.98	6032	4229.42
1800	28	2425	2476.88	3416	2949.80	4396	3504.48	5376	3982.44	6496	4554.76
1930	30	2598	2653.80	3660	3160.50	4710	3754.80	5760	4266.90	6960	4880.10
2060	32	2771	2830.72	3904	3371.20	5024	4005.12	6144	4551.36	7424	5205.44
2190	34	2944	3007.64	4148	3581.90	5338	4255.44	6528	4835.82	7888	5530.78
2320	36	3118	3184.56	4392	3792.60	5652	4505.76	6912	5120.28	8352	5856.12
2450	38	3291	3361.48	4636	4003.30	5966	4756.08	7296	5404.74	8816	6181.46
2580	40	3464	3538.40	4880	4214.00	6280	5006.40	7680	5689.20	9280	6506.80
2710	42	3637	3715.32	5124	4424.70	6594	5256.72	8064	5973.66	9744	6832.14
2840	44	3810	3892.24	5368	4635.40	6908	5507.04	8448	6258.12	10208	7157.48
2970	46	3984	4069.16	5612	4846.10	7222	5757.36				
3100	48	4157	4246.08	5856	5056.80	7536	6007.68				
3230	50	4330	4423.00	6100	5267.50	7850	6258.00				
3360	52	4503	4599.92	6344	5478.20	8164	6508.32				
3490	54	4676	4776.84	6588	5688.90	8478	6758.64				
3620	56	4850	4953.76	6832	5899.60	8792	7008.96				
3750	58	5023	5130.68	7076	6110.30	9106	7259.28				
3880	60	5196	5307.60	7320	6321.00	9420	7509.60				
Maximum number of elements per block		46		46		46		46		46	
Maximum number of elements for second block / third block		15 / 15		15 / 15		15 / 15		15 / 15		15 / 15	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

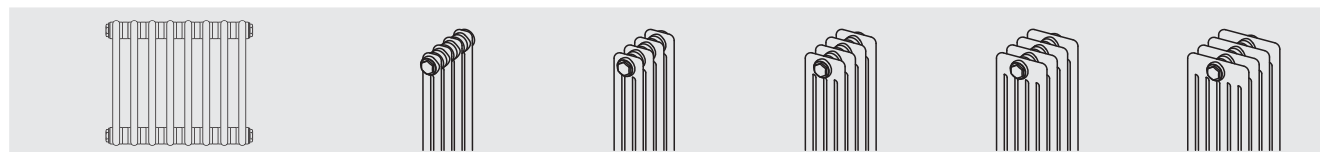
Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 1200 MM

with heat outputs depending on length and depth



Model		M2120	M3120	M4120	M5120	M6120
Height H	[mm]	1200	1200	1200	1200	1200
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.56	2.34	3.12	3.96	4.76
Exponent n	[]	1.3200	1.3500	1.3500	1.3800	1.4000
Standard heat output Φ_s	[watts/el.]	94	132	170	209	251
Price per element	[EUR/el.]	91.59	113.46	133.30	154.02	174.42

Length L	Length	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	565	549.54	792	680.76	1020	799.80	1254	924.12	1506	1046.52
500	8	753	732.72	1056	907.68	1360	1066.40	1672	1232.16	2008	1395.36
630	10	941	915.90	1320	1134.60	1700	1333.00	2090	1540.20	2510	1744.20
760	12	1129	1099.08	1584	1361.52	2040	1599.60	2508	1848.24	3012	2093.04
890	14	1317	1282.26	1848	1588.44	2380	1866.20	2926	2156.28	3514	2441.88
1020	16	1506	1465.44	2112	1815.36	2720	2132.80	3344	2464.32	4016	2790.72
1150	18	1694	1648.62	2376	2042.28	3060	2399.40	3762	2772.36	4518	3139.56
1280	20	1882	1831.80	2640	2269.20	3400	2666.00	4180	3080.40	5020	3488.40
1410	22	2070	2014.98	2904	2496.12	3740	2932.60	4598	3388.44	5522	3837.24
1540	24	2258	2198.16	3168	2723.04	4080	3199.20	5016	3696.48	6024	4186.08
1670	26	2447	2381.34	3432	2949.96	4420	3465.80	5434	4004.52	6526	4534.92
1800	28	2635	2564.52	3696	3176.88	4760	3732.40	5852	4312.56	7028	4883.76
1930	30	2823	2747.70	3960	3403.80	5100	3999.00	6270	4620.60	7530	5232.60
2060	32	3011	2930.88	4224	3630.72	5440	4265.60	6688	4928.64	8032	5581.44
2190	34	3199	3114.06	4488	3857.64	5780	4532.20	7106	5236.68	8534	5930.28
2320	36	3388	3297.24	4752	4084.56	6120	4798.80	7524	5544.72	9036	6279.12
2450	38	3576	3480.42	5016	4311.48	6460	5065.40	7942	5852.76	9538	6627.96
2580	40	3764	3663.60	5280	4538.40	6800	5332.00	8360	6160.80	10040	6976.80
2710	42	3952	3846.78	5544	4765.32	7140	5598.60	8778	6468.84	10542	7325.64
2840	44	4140	4029.96	5808	4992.24	7480	5865.20	9196	6776.88	11044	7674.48
2970	46	4329	4213.14	6072	5219.16	7820	6131.80				
3100	48	4517	4396.32	6336	5446.08	8160	6398.40				
3230	50	4705	4579.50	6600	5673.00	8500	6665.00				
3360	52	4893	4762.68	6864	5899.92	8840	6931.60				
3490	54	5081	4945.86	7128	6126.84	9180	7198.20				
3620	56	5270	5129.04	7392	6353.76	9520	7464.80				
3750	58	5458	5312.22	7656	6580.68	9860	7731.40				
3880	60	5646	5495.40	7920	6807.60	10200	7998.00				

Maximum number of elements per block	46	46	46	46
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
	05 and 07 455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 1500 MM

with heat outputs depending on length and depth



Model		M2150	M3150	M4150	M5150	M6150
Height H	[mm]	1500	1500	1500	1500	1500
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.93	2.89	3.85	4.87	5.85
Exponent n	[]	1.3200	1.3500	1.3500	1.3700	1.4000
Standard heat output Φ_t	[watts/el.]	117	163	208	257	307
Price per element	[EUR/el.]	102.47	130.04	157.69	184.55	212.56

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K	
		Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]		
370	6	702	614.82	978	780.24	1248	946.14	1542	1107.30	1842	1275.36
500	8	936	819.76	1304	1040.32	1664	1261.52	2056	1476.40	2456	1700.48
630	10	1170	1024.70	1630	1300.40	2080	1576.90	2570	1845.50	3070	2125.60
760	12	1404	1229.64	1956	1560.48	2496	1892.28	3084	2214.60	3684	2550.72
890	14	1638	1434.58	2282	1820.56	2912	2207.66	3598	2583.70	4298	2975.84
1020	16	1872	1639.52	2608	2080.64	3328	2523.04	4112	2952.80	4912	3400.96
1150	18	2106	1844.46	2934	2340.72	3744	2838.42	4626	3321.90	5526	3826.08
1280	20	2340	2049.40	3260	2600.80	4160	3153.80	5140	3691.00	6140	4251.20
1410	22	2574	2254.34	3586	2860.88	4576	3469.18	5654	4060.10	6754	4676.32
1540	24	2808	2459.28	3912	3120.96	4992	3784.56	6168	4429.20	7368	5101.44
1670	26	3042	2664.22	4238	3381.04	5408	4099.94	6682	4798.30	7982	5526.56
1800	28	3276	2869.16	4564	3641.12	5824	4415.32	7196	5167.40	8596	5951.68
1930	30	3510	3074.10	4890	3901.20	6240	4730.70	7710	5536.50	9210	6376.80
2060	32	3744	3279.04	5216	4161.28	6656	5046.08				
2190	34	3978	3483.98	5542	4421.36	7072	5361.46				
2320	36	4212	3688.92	5868	4681.44	7488	5676.84				
2450	38	4446	3893.86	6194	4941.52	7904	5992.22				
2580	40	4680	4098.80	6520	5201.60	8320	6307.60				
2710	42	4914	4303.74	6846	5461.68	8736	6622.98				
2840	44	5148	4508.68	7172	5721.76	9152	6938.36				
2970	46	5382	4713.62	7498	5981.84	9568	7253.74				
3100	48	5616	4918.56	7824	6241.92	9984	7569.12				
3230	50	5850	5123.50	8150	6502.00	10400	7884.50				
3360	52	6084	5328.44	8476	6762.08	10816	8199.88				
3490	54	6318	5533.38	8802	7022.16	11232	8515.26				
3620	56	6552	5738.32	9128	7282.24	11648	8830.64				
3750	58	6786	5943.26	9454	7542.32	12064	9146.02				
3880	60	7020	6148.20	9780	7802.40	12480	9461.40				
Maximum number of elements per block		46		46		46		46		42	
Maximum number of elements for second block / third block		15 / 15		15 / 15		15 / 15		15 / 15		15 / 15	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_t and Φ_s at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

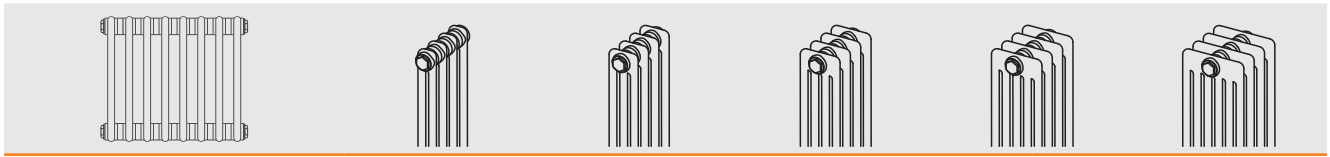
Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 1800 MM

with heat outputs depending on length and depth



Model		M2180	M3180	M4180	M5180	M6180
Height H	[mm]	1800	1800	1800	1800	1800
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	2.29	3.43	4.58	5.78	6.95
Exponent n	[]	1.3200	1.3500	1.3400	1.3700	1.3900
Standard heat output Φ_s	[watts/el.]	141	193	246	305	361
Price per element	[EUR/el.]	111.76	147.08	176.79	206.73	238.94

Length L	Length	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	846	670.56	1158	882.48	1476	1060.74	1830	1240.38	2166	1433.64
500	8	1128	894.08	1544	1176.64	1968	1414.32	2440	1653.84	2888	1911.52
630	10	1410	1117.60	1930	1470.80	2460	1767.90	3050	2067.30	3610	2389.40
760	12	1692	1341.12	2316	1764.96	2952	2121.48	3660	2480.76	4332	2867.28
890	14	1974	1564.64	2702	2059.12	3444	2475.06	4270	2894.22	5054	3345.16
1020	16	2256	1788.16	3088	2353.28	3936	2828.64	4880	3307.68	5776	3823.04
1150	18	2538	2011.68	3474	2647.44	4428	3182.22	5490	3721.14	6498	4300.92
1280	20	2820	2235.20	3860	2941.60	4920	3535.80	6100	4134.60	7220	4778.80
1410	22	3102	2458.72	4246	3235.76	5412	3889.38	6710	4548.06	7942	5256.68
1540	24	3384	2682.24	4632	3529.92	5904	4242.96	7320	4961.52	8664	5734.56
1670	26	3666	2905.76	5018	3824.08	6396	4596.54	7930	5374.98	9386	6212.44
1800	28	3948	3129.28	5404	4118.24	6888	4950.12	8540	5788.44	10108	6690.32
1930	30	4230	3352.80	5790	4412.40	7380	5303.70	9150	6201.90	10830	7168.20
2060	32	4512	3576.32	6176	4706.56	7872	5657.28				
2190	34	4794	3799.84	6562	5000.72	8364	6010.86				
2320	36	5076	4023.36	6948	5294.88	8856	6364.44				
2450	38	5358	4246.88	7334	5589.04	9348	6718.02				
2580	40	5640	4470.40	7720	5883.20	9840	7071.60				
2710	42	5922	4693.92	8106	6177.36	10332	7425.18				
2840	44	6204	4917.44	8492	6471.52	10824	7778.76				
2970	46	6486	5140.96	8878	6765.68	11316	8132.34				
3100	48	6768	5364.48	9264	7059.84	11808	8485.92				
3230	50	7050	5588.00	9650	7354.00	12300	8839.50				
3360	52	7332	5811.52	10036	7648.16	12792	9193.08				
3490	54	7614	6035.04	10422	7942.32	13284	9546.66				
3620	56	7896	6258.56	10808	8236.48	13776	9900.24				
3750	58	8178	6482.08	11194	8530.64	14268	10253.82				
3880	60	8460	6705.60	11580	8824.80	14760	10607.40				

Maximum number of elements per block	46	46	46	38	32
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15

Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.

General information

Model Standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information



PRICES AND OUTPUTS – HEIGHT OF 2000 MM

with heat outputs depending on length and depth



Model		M2200	M3200	M4200	M5200	M6200
Height H	[mm]	2000	2000	2000	2000	2000
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	2.53	3.80	5.06	6.38	7.67
Exponent n	[]	1.3200	1.3400	1.3400	1.3700	1.3900
Standard heat output Φ_s	[watts/el.]	157	214	270	337	397
Price per element	[EUR/el.]	119.59	154.38	190.22	223.01	257.72

Length L [mm]	Length [el.]	$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K	
		Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]	Price [EUR]				
370	6	942	717.54	1284	926.28	1620	1141.32	2022	1338.06	2382	1546.32
500	8	1256	956.72	1712	1235.04	2160	1521.76	2696	1784.08	3176	2061.76
630	10	1570	1195.90	2140	1543.80	2700	1902.20	3370	2230.10	3970	2577.20
760	12	1884	1435.08	2568	1852.56	3240	2282.64	4044	2676.12	4764	3092.64
890	14	2198	1674.26	2996	2161.32	3780	2663.08	4718	3122.14	5558	3608.08
1020	16	2512	1913.44	3424	2470.08	4320	3043.52	5392	3568.16	6352	4123.52
1150	18	2826	2152.62	3852	2778.84	4860	3423.96	6066	4014.18	7146	4638.96
1280	20	3140	2391.80	4280	3087.60	5400	3804.40	6740	4460.20	7940	5154.40
1410	22	3454	2630.98	4708	3396.36	5940	4184.84	7414	4906.22	8734	5669.84
1540	24	3768	2870.16	5136	3705.12	6480	4565.28	8088	5352.24	9528	6185.28
1670	26	4082	3109.34	5564	4013.88	7020	4945.72	8762	5798.26	10322	6700.72
1800	28	4396	3348.52	5992	4322.64	7560	5326.16	9436	6244.28	11116	7216.16
1930	30	4710	3587.70	6420	4631.40	8100	5706.60	10110	6690.30	11910	7731.60
2060	32	5024	3826.88	6848	4940.16	8640	6087.04				
2190	34	5338	4066.06	7276	5248.92	9180	6467.48				
2320	36	5652	4305.24	7704	5557.68	9720	6847.92				
2450	38	5966	4544.42	8132	5866.44	10260	7228.36				
2580	40	6280	4783.60	8560	6175.20	10800	7608.80				
2710	42	6594	5022.78	8988	6483.96	11340	7989.24				
2840	44	6908	5261.96	9416	6792.72	11880	8369.68				
2970	46	7222	5501.14	9844	7101.48	12420	8750.12				
3100	48	7536	5740.32	10272	7410.24	12960	9130.56				
3230	50	7850	5979.50	10700	7719.00	13500	9511.00				
3360	52	8164	6218.68	11128	8027.76	14040	9891.44				
3490	54	8478	6457.86	11556	8336.52	14580	10271.88				
3620	56	8792	6697.04	11984	8645.28	15120	10652.32				
3750	58	9106	6936.22	12412	8954.04	15660	11032.76				
3880	60	9420	7175.40	12840	9262.80	16200	11413.20				
Maximum number of elements per block		46		46		46		38		32	
Maximum number of elements for second block / third block		15 / 15		15 / 15		15 / 15		15 / 15		15 / 15	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

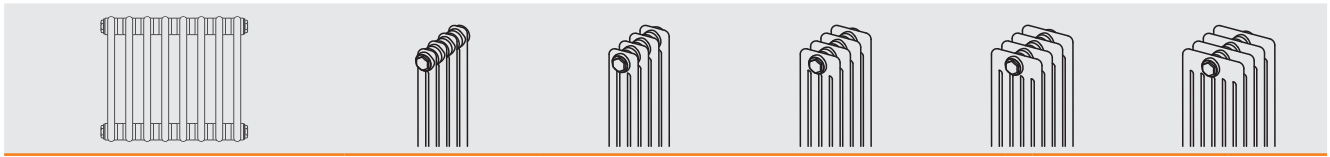
Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 2200 MM

with heat outputs depending on length and depth



Model		M2220	M3220	M4220	M5220	M6220
Height H	[mm]	2200	2200	2200	2200	2200
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	2.78	4.16	5.55	6.99	8.40
Exponent n	[]	1.3200	1.3400	1.3400	1.3600	1.3900
Standard heat output Φ_s	[watts/el.]	175	235	295	369	432
Price per element	[EUR/el.]	127.79	167.70	206.02	242.14	281.17

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	1050	766.74	1410	1006.20	1770	1236.12	2214	1452.84	2592	1687.02
500	8	1400	1022.32	1880	1341.60	2360	1648.16	2952	1937.12	3456	2249.36
630	10	1750	1277.90	2350	1677.00	2950	2060.20	3690	2421.40	4320	2811.70
760	12	2100	1533.48	2820	2012.40	3540	2472.24	4428	2905.68	5184	3374.04
890	14	2450	1789.06	3290	2347.80	4130	2884.28	5166	3389.96	6048	3936.38
1020	16	2800	2044.64	3760	2683.20	4720	3296.32	5904	3874.24	6912	4498.72
1150	18	3150	2300.22	4230	3018.60	5310	3708.36	6642	4358.52	7776	5061.06
1280	20	3500	2555.80	4700	3354.00	5900	4120.40	7380	4842.80	8640	5623.40
1410	22	3850	2811.38	5170	3689.40	6490	4532.44	8118	5327.08	9504	6185.74
1540	24	4200	3066.96	5640	4024.80	7080	4944.48	8856	5811.36	10368	6748.08
1670	26	4550	3322.54	6110	4360.20	7670	5356.52	9594	6295.64	11232	7310.42
1800	28	4900	3578.12	6580	4695.60	8260	5768.56	10332	6779.92	12096	7872.76
1930	30	5250	3833.70	7050	5031.00	8850	6180.60	11070	7264.20	12960	8435.10
2060	32	5600	4089.28	7520	5366.40	9440	6592.64				
2190	34	5950	4344.86	7990	5701.80	10030	7004.68				
2320	36	6300	4600.44	8460	6037.20	10620	7416.72				
2450	38	6650	4856.02	8930	6372.60	11210	7828.76				
2580	40	7000	5111.60	9400	6708.00	11800	8240.80				
2710	42	7350	5367.18	9870	7043.40	12390	8652.84				
2840	44	7700	5622.76	10340	7378.80	12980	9064.88				
2970	46	8050	5878.34	10810	7714.20	13570	9476.92				
3100	48	8400	6133.92	11280	8049.60	14160	9888.96				
3230	50	8750	6389.50	11750	8385.00	14750	10301.00				
3360	52	9100	6645.08	12220	8720.40	15340	10713.04				
3490	54	9450	6900.66	12690	9055.80	15930	11125.08				
3620	56	9800	7156.24	13160	9391.20	16520	11537.12				
3750	58	10150	7411.82	13630	9726.60	17110	11949.16				
3880	60	10500	7667.40	14100	10062.00	17700	12361.20				

Maximum number of elements per block	30	30	30	30	26
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
	05 and 07 455.15 €	

For an overview of the connection versions please see connection options.

General information

Model Standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information



PRICES AND OUTPUTS – HEIGHT OF 2500 MM

with heat outputs depending on length and depth



Model		M2250	M3250	M4250	M5250	M6250
Height H	[mm]	2500	2500	2500	2500	2500
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	3.14	4.71	6.27	7.90	9.49
Exponent n	[]	1.3200	1.3400	1.3400	1.3600	1.3900
Standard heat output Φ_s	[watts/el.]	201	266	331	417	483
Price per element	[EUR/el.]	136.04	181.00	221.91	261.34	304.47

Length L	Length	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	1206	816.24	1596	1086.00	1986	1331.46	2502	1568.04	2898	1826.82
500	8	1608	1088.32	2128	1448.00	2648	1775.28	3336	2090.72	3864	2435.76
630	10	2010	1360.40	2660	1810.00	3310	2219.10	4170	2613.40	4830	3044.70
760	12	2412	1632.48	3192	2172.00	3972	2662.92	5004	3136.08	5796	3653.64
890	14	2814	1904.56	3724	2534.00	4634	3106.74	5838	3658.76	6762	4262.58
1020	16	3216	2176.64	4256	2896.00	5296	3550.56	6672	4181.44	7728	4871.52
1150	18	3618	2448.72	4788	3258.00	5958	3994.38	7506	4704.12	8694	5480.46
1280	20	4020	2720.80	5320	3620.00	6620	4438.20	8340	5226.80	9660	6089.40
1410	22	4422	2992.88	5852	3982.00	7282	4882.02	9174	5749.48	10626	6698.34
1540	24	4824	3264.96	6384	4344.00	7944	5325.84	10008	6272.16	11592	7307.28
1670	26	5226	3537.04	6916	4706.00	8606	5769.66	10842	6794.84	12558	7916.22
1800	28	5628	3809.12	7448	5068.00	9268	6213.48	11676	7317.52	13524	8525.16
1930	30	6030	4081.20	7980	5430.00	9930	6657.30	12510	7840.20	14490	9134.10
2060	32	6432	4353.28								
2190	34	6834	4625.36								
2320	36	7236	4897.44								
2450	38	7638	5169.52								
2580	40	8040	5441.60								
2710	42	8442	5713.68								
2840	44	8844	5985.76								
2970	46	9246	6257.84								
3100	48	9648	6529.92								
3230	50	10050	6802.00								
3360	52	10452	7074.08								
3490	54	10854	7346.16								
3620	56	11256	7618.24								
3750	58	11658	7890.32								
3880	60	12060	8162.40								

Maximum number of elements per block	30	30	30	30	26
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_2 at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	Valve on side at top	69, 89 96, 98 50 and 70 69, 89, 50, and 70 96 and 98 05 and 07	243.66 € 356.38 € 243.66 € 342.43 € 455.15 € 455.15 €

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 2800 MM

with heat outputs depending on length and depth



Model	M2280	M3280	M4280	M5280	M6280
Height H [mm]	2800	2800	2800	2800	2800
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	3.50	5.25	7.00	8.81	10.59
Exponent n []	1.3300	1.3400	1.3400	1.3500	1.3800
Standard heat output Φ_s [watts/el.]	230	297	366	466	533
Price per element [EUR/el.]	146.70	195.17	242.69	283.06	332.71

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
370	6	1380	880.20	1782	1171.02	2196	1456.14	2796	1698.36	3198	1996.26
500	8	1840	1173.60	2376	1561.36	2928	1941.52	3728	2264.48	4264	2661.68
630	10	2300	1467.00	2970	1951.70	3660	2426.90	4660	2830.60	5330	3327.10
760	12	2760	1760.40	3564	2342.04	4392	2912.28	5592	3396.72	6396	3992.52
890	14	3220	2053.80	4158	2732.38	5124	3397.66	6524	3962.84	7462	4657.94
1020	16	3680	2347.20	4752	3122.72	5856	3883.04	7456	4528.96	8528	5323.36
1150	18	4140	2640.60	5346	3513.06	6588	4368.42	8388	5095.08	9594	5988.78
1280	20	4600	2934.00	5940	3903.40	7320	4853.80	9320	5661.20	10660	6654.20
1410	22	5060	3227.40	6534	4293.74	8052	5339.18	10252	6227.32	11726	7319.62
1540	24	5520	3520.80	7128	4684.08	8784	5824.56	11184	6793.44	12792	7985.04
1670	26	5980	3814.20	7722	5074.42	9516	6309.94	12116	7359.56	13858	8650.46
1800	28	6440	4107.60	8316	5464.76	10248	6795.32	13048	7925.68	14924	9315.88
1930	30	6900	4401.00	8910	5855.10	10980	7280.70	13980	8491.80	15990	9981.30
2060	32	7360	4694.40								
2190	34	7820	4987.80								
2320	36	8280	5281.20								
2450	38	8740	5574.60								
2580	40	9200	5868.00								
2710	42	9660	6161.40								
2840	44	10120	6454.80								
2970	46	10580	6748.20								
3100	48	11040	7041.60								
3230	50	11500	7335.00								
3360	52	11960	7628.40								
3490	54	12420	7921.80								
3620	56	12880	8215.20								
3750	58	13340	8508.60								
3880	60	13800	8802.00								

Maximum number of elements per block	30	30	30	26	21
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, and 98	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge
31, 41, 32, 42	Valve on side at top	69, 89 243.66 €
	Valve on side at bottom	96, 98 356.38 €
		50 and 70 243.66 €
		69, 89, 50, and 70 342.43 €
		96 and 98 455.15 €
05 and 07 455.15 €		

For an overview of the connection versions please see connection options.



PRICES AND OUTPUTS – HEIGHT OF 3000 MM

with heat outputs depending on length and depth



Model		M2300	M3300	M4300	M5300	M6300
Height H	[mm]	3000	3000	3000	3000	3000
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	3.75	5.62	7.49	9.42	11.31
Exponent n	[]	1.3300	1.3300	1.3400	1.3500	1.3800
Standard heat output Φ_s	[watts/el.]	250	318	390	498	566
Price per element	[EUR/el.]	153.07	206.28	255.31	298.16	349.49

Length L	Length	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
370	6	1500	918.42	1908	1237.68	2340	1531.86	2988	1788.96	3396	2096.94
500	8	2000	1224.56	2544	1650.24	3120	2042.48	3984	2385.28	4528	2795.92
630	10	2500	1530.70	3180	2062.80	3900	2553.10	4980	2981.60	5660	3494.90
760	12	3000	1836.84	3816	2475.36	4680	3063.72	5976	3577.92	6792	4193.88
890	14	3500	2142.98	4452	2887.92	5460	3574.34	6972	4174.24	7924	4892.86
1020	16	4000	2449.12	5088	3300.48	6240	4084.96	7968	4770.56	9056	5591.84
1150	18	4500	2755.26	5724	3713.04	7020	4595.58	8964	5366.88	10188	6290.82
1280	20	5000	3061.40	6360	4125.60	7800	5106.20	9960	5963.20	11320	6989.80
1410	22	5500	3367.54	6996	4538.16	8580	5616.82	10956	6559.52	12452	7688.78
1540	24	6000	3673.68	7632	4950.72	9360	6127.44	11952	7155.84	13584	8387.76
1670	26	6500	3979.82	8268	5363.28	10140	6638.06	12948	7752.16	14716	9086.74
1800	28	7000	4285.96	8904	5775.84	10920	7148.68	13944	8348.48	15848	9785.72
1930	30	7500	4592.10	9540	6188.40	11700	7659.30	14940	8944.80	16980	10484.70
2060	32	8000	4898.24								
2190	34	8500	5204.38								
2320	36	9000	5510.52								
2450	38	9500	5816.66								
2580	40	10000	6122.80								
2710	42	10500	6428.94								
2840	44	11000	6735.08								
2970	46	11500	7041.22								
3100	48	12000	7347.36								
3230	50	12500	7653.50								
3360	52	13000	7959.64								
3490	54	13500	8265.78								
3620	56	14000	8571.92								
3750	58	14500	8878.06								
3880	60	15000	9184.20								

Maximum number of elements per block	30	30	30	26	21
Maximum number of elements for second block / third block	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_r at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Surcharge
2	12, 34, 14, and 32	–
	24 and 42	22.30 €
	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

Connection system	Connection arrangement	Surcharge	
31, 41, 32, 42	69, 89	243.66 €	
	Valve on side at top	96, 98	356.38 €
	Valve on side at bottom	50 and 70	243.66 €
		69, 89, 50, and 70	342.43 €
		96 and 98	455.15 €
	05 and 07	455.15 €	

For an overview of the connection versions please see connection options.



2-PIPE CONNECTIONS WITHOUT BUILT-IN VALVE

Connection system	Order code [5]	ζ value	Position ordering code [6]				Connection size	Order code [7]		Surcharge per radiator [EUR]
			VL	RL	VL	RL				
2-pipe, side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			–
2-pipe, on side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			22.30
2-pipe, side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			53.65
2-pipe, from bottom, from top	2	2.5					G 3/8" G 1/2" G 3/4"	38 12 34 10	38 12 34 10	113.91
2-pipe, from bottom, from top, side by side	2	2.5					G 3/8" G 1/2"			
2-pipe, from bottom, from top	2	2.5					G 3/8" G 1/2" G 3/4"			156.83
2-pipe, from bottom, from top, centre	2	2.5					G 1/2"			
Special connections – design according to drawing – order code I51 = 99										On request

L: recommended position for air vent connection;

○ Standard cut-off wheel; ● 100 % tight cut-off wheel

The connection options 69, 89, 50, 70, 98, 96, 07, and 05 are not possible for all lengths (see price and output tables).

Starting from a height of 1800 mm a drain is additionally built in for process engineering reasons.

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

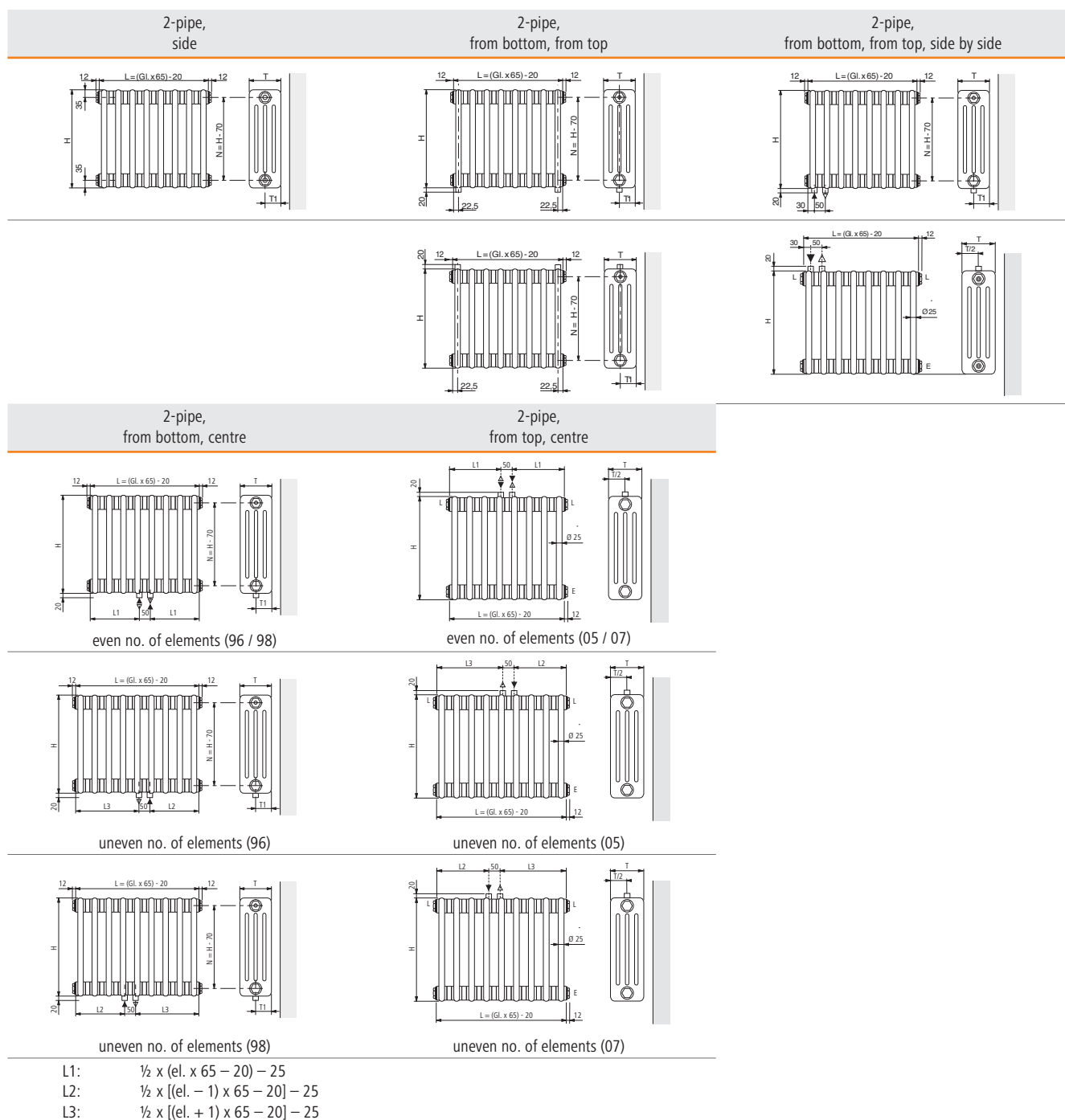
Fixing and dimensional drawings

Accessories

Further information



DIMENSIONAL DRAWINGS FOR SANO RADIATORS



H: height
 L: length
 N: hub distance

Number of columns	T [mm]	T1 [mm]
2 columns	65	32.5
3 columns	105	52.5
4 columns	145	72.5
5 columns	185	92.5
6 columns	225	112.5



2-PIPE CONNECTIONS WITH BUILT-IN VALVE



General

In this special version of the column radiator, a factory k_v -preset valve is built in.

- Maximum length as Sano radiators without built-in valve (see "Maximum length"):
 - Can be nipped with valve arranged at top (delivery in sub-blocks possible)
 - Cannot be nipped with valve arranged at bottom (delivered in a single piece)
- Surface finish as with column radiators without built-in valve

Range available

- Factory k_v -preset built-in valve, arranged at top or bottom, right or left
- Standard connection:
 - 2-pipe connection bottom or top, on same side (on the side of the valve) or centre with hub distance 50 mm
 - Connection size: G 1/2" internal thread or G 3/4" external thread
 - Flow welded into the 1st element, return into the 2nd element
 - For the version with valve arranged at the bottom, two air vents are provided
- Thermostatic sensor head is not included in the scope of delivery and must be ordered as an accessory
- Not available in high-pressure version

Special versions

- 2-pipe connections (for valve arranged at top or bottom, on request):
 - From top, on alternating sides
- Version as additional block that can be nipped:
 - With valve arranged at top
 - Length 2 elements
- Column radiator angled version:
 - With valve arranged at top
 - The first three elements cannot be angled in each case
- In the case of a connection from the top, the heat output can be reduced

Connection system	Order code 5	Position ordering code 6	Conn. size	Order code 7		Surcharge per radiator [EUR]
				VL	RL	
2-pipe from bottom, built-in valve integrated on side at top	31 Standard valve with M30 x 1.5 connection					
	41 Valve with fine adjustment and M30 x 1.5 connection		G 1/2"	12	12	243.66
	32 Standard valve with clamp connection		G 3/4"	84	84	261.97
	42 Valve with fine adjustment and clamp connection					
	31 Standard valve with M30 x 1.5 connection					
	41 Valve with fine adjustment and M30 x 1.5 connection		G 1/2"	12	12	356.38
	32 Standard valve with clamp connection		G 3/4"	84	84	374.69
	42 Valve with fine adjustment and clamp connection					
2-pipe from bottom, built-in valve integrated on side at bottom	61 Standard valve with M30 x 1.5 connection					
	81 Valve with fine adjustment and M30 x 1.5 connection		G 1/2"	12	12	342.43
	62 Standard valve with clamp connection		G 3/4"	84	84	360.74
	82 Valve with fine adjustment and clamp connection					
	61 Standard valve with M30 x 1.5 connection					
	81 Valve with fine adjustment and M30 x 1.5 connection		G 1/2"	12	12	455.15
	62 Standard valve with clamp connection		G 3/4"	84	84	473.46
	82 Valve with fine adjustment and clamp connection					
2-pipe from top, built-in valve integrated on side at top	31 Standard valve with M30 x 1.5 connection					
	41 Valve with fine adjustment and M30 x 1.5 connection		G 1/2"	12	12	243.66
	32 Standard valve with clamp connection		G 3/4"	84	84	261.97
	42 Valve with fine adjustment and clamp connection					
2-pipe from top, built-in valve integrated on side at bottom	61 Standard valve with M30 x 1.5 connection					
	81 Valve with fine adjustment and M30 x 1.5 connection		G 1/2"	12	12	342.43
	62 Standard valve with clamp connection		G 3/4"	84	84	360.74
	82 Valve with fine adjustment and clamp connection					
	61 Standard valve with M30 x 1.5 connection					
	81 Valve with fine adjustment and M30 x 1.5 connection		G 1/2"	12	12	455.15
	62 Standard valve with clamp connection		G 3/4"	84	84	473.46
	82 Valve with fine adjustment and clamp connection					

L: recommended position for air vent connection
 G 1/2": internal thread; G 3/4": external thread

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

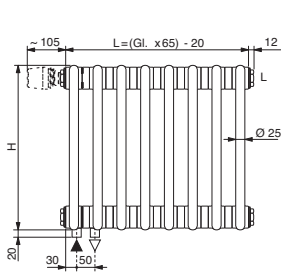
Accessories

Further information



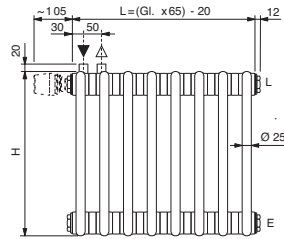
DIMENSIONAL DRAWINGS BUILT-IN VALVE AT TOP

Connection (69) at bottom on side¹⁾

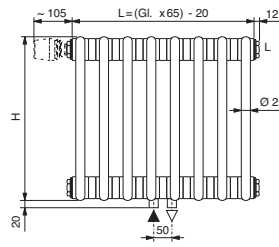


¹⁾ Minimum length: 4 elements

Connection (50) at top on side¹⁾



Connection (98) at bottom centre³⁾

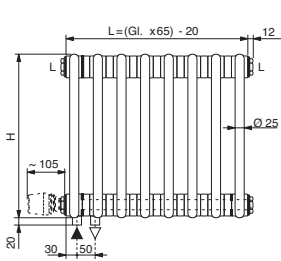


³⁾ Minimum length: 8 elements

Centre connection only possible with an even number of elements (for uneven number of elements connections are offset right or left)

DIMENSIONAL DRAWINGS BUILT-IN VALVE AT BOTTOM

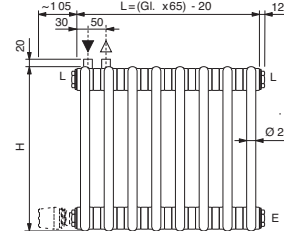
Connection (69) at bottom on side^{1) 2)}



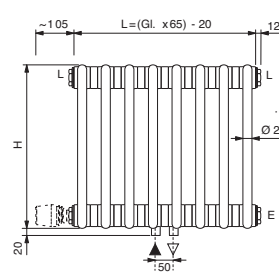
¹⁾ Minimum length: 4 elements

²⁾ For design reasons, there is no flow through the first element

Connection (50) at top on side¹⁾



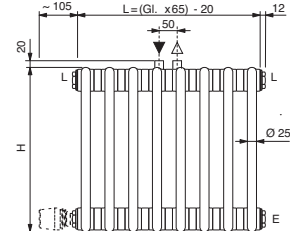
Connection (98) at bottom centre²⁾



²⁾ Minimum length: 8 elements

Centre connection only possible with an even number of elements (for uneven number of elements connections are offset right or left)

Connection (07) at top centre²⁾

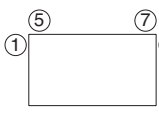
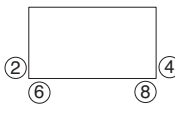


Note:

Please note the valve performance limits in the section "General information"

For connection images 98 and 96 with built-in valve on the side at bottom, the hot-dip galvanised version is not possible.

AIR VENT AND DRAIN

Description	Feature	Order code	Surcharge per radiator [EUR]
Air vent			
Type			
Air vent connection	8	4	–
Built-in air vent with rotatable outlet – standard version	8	1	9.83
No air vent, only if mandatory	8	3	–
Position			
Position recommended by factory – standard version ¹⁾	9	–	–
Position on request ²⁾	9		23.72
Connection size			
G 3/8" internal thread	10	38	–
G 1/2" internal thread	10	12	–
Drain			
Type			
No drain, only if mandatory – standard version ³⁾	11	3	–
Drain connection	11	4	–
Position			
Position recommended by factory – standard version ¹⁾	12	–	–
Position on request ²⁾	12		23.72
Connection size			
G 3/8" internal thread	13	38	–
G 1/2" internal thread	13	12	–

¹⁾ For position see diagrams for arrangement of the connections in the table "Connection options flow/return"

²⁾ If for technical reasons the connection cannot be placed at the desired position, it will instead be placed in the position recommended by the factory

³⁾ If for technical reasons a drain connection is necessary, it is built in at the factory as standard

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information

ARBONIA COLUMN RADIATORS: CAMBIOTHERM®



In the following section,
you will find:

- General, tender specifications
- Description
- Technical data
- Prices and outputs
- Connection options and dimensional drawing
- Air vent and drain



CAMBIO THERM®

The attractive, safe, and insurance-compliant Cambiotherm is a column radiator with a special hub distance. It is ideally suited to the replacement of steel/cast iron radiators in accordance with DIN 4722 (from 1938).

As not only the performance and hub distance, but also the element length (45 mm) match, cost-saving replacement is ensured. The replacement with Cambiotherm can be made without changing the pipes to suit the hub distance.

The Cambiotherm has the technical properties – except height, hub distance, and heat output – of the column radiators.

Note

The element length for steel/cast iron radiators in accordance with DIN 4722 from 1961 is 50 mm. When replacing with Cambiotherm (element length: 45 mm), attention must be paid to the different length.

Special features:

- A fast, efficient, and economical replacement solution
- A classic and timeless design
- Top in quality and comfort
- A uniquely large variety of models
- Powerful and comfortable
- High accident safety (compliant with statutory accident insurance)
- Safe and easy to install in accordance with VDI 6036

TENDER SPECIFICATIONS

Arbonia Cambiotherm®

2–6 columns made of steel; individual elements (length 45 mm) as a welded assembly, consisting of head pieces (band steel pressings) and round precision steel pipes. Blocks welded together from elements up to the maximum length of the delivery unit.

Ready to install with 4 threaded plugs for flow and return as well as for air vent and drain. With identical pipe connection dimensions as with DIN steel radiators and DIN cast iron radiators according to DIN 4703. Edges rounded on all sides with $R_{min} = 2$ mm.

Coating according to DIN 55900 part 1 and part 2.

Design features comply with the basic principles for the testing of the health and safety of radiators (statutory accident insurance).

Awarded for compliance with demanding hygiene requirements by a laboratory for microbiology and hygiene.

Compressive strength and watertightness tested.

Heat output tested and registered in accordance with EN 442.

Awarded with the RAL quality mark.

CE-compliant.

Suitable for closed water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permissible operating temperature: 110 °C

Max. operating pressure:

2–6 columns 10 bar / 1000 kPa

2–6 columns 16 bar / 1600 kPa (high-pressure version)

Packed safely for transport.

RANGE AVAILABLE

- 5 depths: 65–225 mm (2–6 columns)
- 7 heights: 270–1070 mm (hub distance: 200–1000 mm)
- More heights (hub distance) on request
- Length:
 - Calculation: number of elements x 45 mm
 - Length gradation: 45 mm (1 element)
 - Minimum length: 270 mm (6 elements)
 - Maximum length see paragraph “Maximum length”
- 2-pipe connections, at side

For Cambiotherm with connections on the same end, from a certain length and height an insert pipe is supplied to guarantee correct water circulation.

MAXIMUM LENGTH

For reasons of weight and transport, Cambiotherm can be delivered ex works in one piece only up to a maximum length. If the maximum length is exceeded in a single piece, then the Cambiotherm will be delivered in several blocks (see price tables).

These blocks will have to be coupled together on site, or if necessary at the factory. The overall length of Cambiotherm is limited to three blocks.

Cambiotherm in high-pressure version cannot be fitted. The overall length for the high-pressure version is thus limited to the number of elements per block.



CAMBIO THERM®

The attractive, safe, and insurance-compliant Cambiotherm is a column radiator with a special hub distance. It is ideally suited to the replacement of steel/cast iron radiators in accordance with DIN 4722 (from 1938).

As not only the performance and hub distance, but also the element length (45 mm) match, cost-saving replacement is ensured. The replacement with Cambiotherm can be made without changing the pipes to suit the hub distance.

The Cambiotherm has the technical properties – except height, hub distance, and heat output – of the column radiators.

Note

The element length for steel/cast iron radiators in accordance with DIN 4722 from 1961 is 50 mm. When replacing with Cambiotherm (element length: 45 mm), attention must be paid to the different length.

Special features:

- A fast, efficient, and economical replacement solution
- Increased efficiency thanks to preset valves
- A classic and timeless design
- Top in quality and comfort
- A uniquely large variety of models
- Powerful and comfortable
- High accident safety (compliant with statutory accident insurance)
- Safe and easy to install in accordance with VDI 6036

TENDER SPECIFICATIONS

Arbonia Cambiotherm® with built-in valve

2–6 columns made of steel; individual elements (length 45 mm) as a welded assembly, consisting of head pieces (band steel pressings) and round precision steel pipes. Blocks welded together from elements up to the maximum length of the delivery unit.

With integrated, adjustable valve insert. The k_v value is preset at the factory and adjusted to the heat output.

Ready to install with connections for flow and return as well as for air vent. Connection for drain optional. Edges rounded on all sides with $R_{min} = 2$ mm.

Coating according to DIN 55900 part 1 and part 2.

Design features comply with the basic principles for the testing of the health and safety of radiators (statutory accident insurance).

Awarded for compliance with demanding hygiene requirements by a laboratory for microbiology and hygiene.

Compressive strength and watertightness tested.

Heat output tested and registered in accordance with EN 442.

Awarded with the RAL quality mark.

CE-compliant.

Suitable for hot water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195, and SWKI BT 102-01.

Maximum permissible operating temperature: 110 °C

Max. operating pressure:

2–6 columns 10 bar / 1000 kPa

Packed safely for transport.

RANGE AVAILABLE

- 5 depths: 65–225 mm (2–6 columns)
- 7 heights: 180–1070 mm (hub distance: 200–1000 mm)
- More heights (hub distance) on request
- Length:
 - Calculation: number of elements x 45 mm
 - Length gradation: 45 mm (1 element)
 - Minimum length: 270 mm (6 elements)
 - Maximum length see paragraph “Maximum length”
- factory k_v -preset built-in valve, arranged at top or bottom, right or left
- Standard connection:
 - 2-pipe connection bottom or top, on same side (on the side of the valve) with hub distance 50 mm
 - Connection size: G 1/2" internal thread
 - Flow welded into the 1st element, return into the 2nd element
 - For the version with valve arranged at the bottom, two air vents are provided
- Thermostatic sensor head is not included in the scope of delivery and must be ordered as an accessory
 - Not available in high-pressure version

MAXIMUM LENGTH

For reasons of weight and transport, Cambiotherm can be delivered ex works in one piece only up to a maximum length. If the maximum length is exceeded in a single piece, then the column radiators will be delivered in several blocks (see price tables).

These blocks will have to be coupled together on site, or if necessary at the factory. The overall length for column radiators is limited to three blocks.

Column radiators in the high-pressure version cannot be fitted. The overall length for the high-pressure version is thus limited to the maximum number of elements per block.



TECHNICAL DATA AND PRICE PER ELEMENT – HEIGHT 270–1070 MM

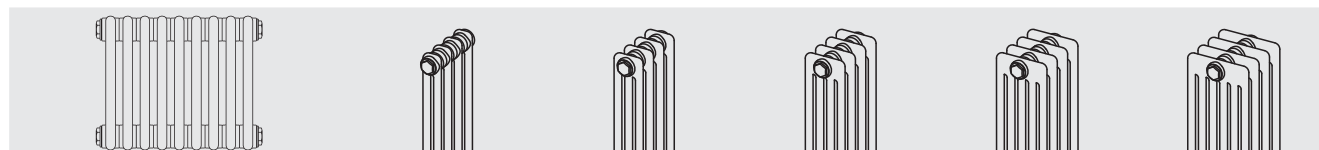
Height H [mm]	Depth T [mm]	Type	Heat output EN 442				Exponent n []	Ø Mass per element M [kg/el.]	Surface per element A [m²/el.]	Water content per element W [l/el.]	Standard water flow q _m [kg/h el.]	Radiation component s [%]	Price per element [EUR/el.]
			Φ ΔT 60 K 90/70/20 °C [watt/el.]	Φ _L ΔT 50 K 75/65/20 °C [watt/el.]	Φ ΔT 42 70/55/20 °C [watt/el.]	Φ ΔT 30 K 55/45/20 °C [watt/el.]							
270	65	2027	29	23	18	12	1.30	0.43	0.04	0.34	1.6	49	32.10
	105	3027	35	28	22	14	1.30	0.65	0.07	0.48	2.2	38	34.85
	145	4027	44	35	28	18	1.30	0.86	0.09	0.63	2.8	33	38.54
	185	5027	54	43	34	22	1.30	1.14	0.11	0.78	3.6	30	46.04
	225	6027	63	50	40	26	1.30	1.37	0.13	0.95	4.2	27	53.83
370	65	2037	34	27	22	14	1.30	0.55	0.06	0.41	2.2	49	32.99
	105	3037	48	38	30	19	1.30	0.83	0.09	0.51	3.1	38	37.07
	145	4037	60	48	38	25	1.30	1.10	0.12	0.67	3.9	33	40.67
	185	5037	73	58	47	30	1.30	1.44	0.15	0.83	5.1	30	48.47
	225	6037	86	68	55	35	1.30	1.74	0.18	1.00	5.7	27	57.06
420	65	2042	39	31	25	16	1.30	0.62	0.07	0.45	2.4	49	33.88
	105	3042	54	43	34	22	1.30	0.92	0.10	0.58	3.5	38	38.03
	145	4042	68	54	43	28	1.30	1.23	0.13	0.76	4.5	33	42.38
	185	5042	83	66	53	34	1.30	1.59	0.17	1.06	5.5	30	50.60
	225	6042	98	78	63	40	1.30	1.92	0.20	1.13	6.5	27	59.17
570	65	2057	53	42	34	21	1.30	0.80	0.09	0.57	3.5	49	36.43
	105	3057	73	58	47	30	1.30	1.19	0.14	0.78	4.8	38	41.60
	145	4057	93	74	59	38	1.30	1.59	0.18	1.03	6.1	33	47.11
	185	5057	113	90	72	46	1.30	2.05	0.23	1.28	7.4	30	55.87
	225	6057	132	105	84	54	1.30	2.47	0.27	1.53	8.8	27	65.92
670	65	2067	64	51	41	26	1.30	0.92	0.10	0.61	3.8	49	37.94
	105	3067	86	68	55	35	1.30	1.37	0.16	0.92	5.7	38	44.61
	145	4067	108	86	69	44	1.30	1.83	0.21	1.21	7.1	33	53.49
	185	5067	133	106	85	54	1.30	2.35	0.27	1.51	8.7	30	64.33
	225	6067	156	124	99	63	1.30	2.83	0.32	1.80	10.4	27	75.10
970	65	2097	91	72	58	37	1.30	1.28	0.16	0.92	6.3	49	42.27
	105	3097	124	99	79	51	1.30	1.92	0.23	1.33	8.2	38	50.32
	145	4097	157	125	100	64	1.30	2.56	0.31	1.76	10.3	33	66.58
	185	5097	192	153	123	78	1.30	3.26	0.40	2.25	13.0	30	77.79
	225	6097	225	179	144	91	1.30	3.92	0.47	2.61	15.0	30	91.09
1070	65	2107	99	79	63	40	1.30	1.40	0.18	1.00	6.9	49	43.89
	105	3107	137	109	87	56	1.30	2.10	0.26	1.47	9.0	38	56.54
	145	4107	174	138	111	70	1.30	2.80	0.34	1.94	11.4	33	73.59
	185	5107	213	169	136	86	1.30	3.56	0.43	2.41	13.9	30	90.28
	225	6107	249	198	159	101	1.30	4.29	0.51	2.88	16.6	27	107.39

For individual heat output calculations, see "General information"
 Length calculation: length in mm = number of elements x 45 mm – 20 mm
 Price calculation: price per radiator = length in elements x price per element
 Note extra charge for connection images.



PRICES AND OUTPUTS – HEIGHT OF 270 MM

with heat output per element depending on the depth



Type		2027	3027	4027	5027	6027
Order number		RRN20027...2.XA	RRN30027...2.XA	RRN40027...2.XA	RRN50027...2.XA	RRN60027...2.XA
Height H	[mm]	270	270	270	270	270
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.43	0.65	0.86	1.14	1.37
Exponent n	[]	1.3000	1.3000	1.3000	1.3000	1.3000
Standard heat output Φ _s	[watts/el.]	23	28	35	43	50
Price per element	[EUR/el.]	32.10	34.85	38.54	46.04	53.83

Length L	Length	Φ _s ΔT 50 K	Price	Φ _s ΔT 50 K	Price	Φ _s ΔT 50 K	Price	Φ _s ΔT 50 K	Price	Φ _s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
270	6	138	192.60	168	209.10	210	231.24	258	276.24	300	322.98
360	8	184	256.80	224	278.80	280	308.32	344	368.32	400	430.64
450	10	230	321.00	280	348.50	350	385.40	430	460.40	500	538.30
540	12	276	385.20	336	418.20	420	462.48	516	552.48	600	645.96
630	14	322	449.40	392	487.90	490	539.56	602	644.56	700	753.62
720	16	368	513.60	448	557.60	560	616.64	688	736.64	800	861.28
810	18	414	577.80	504	627.30	630	693.72	774	828.72	900	968.94
900	20	460	642.00	560	697.00	700	770.80	860	920.80	1000	1076.60
990	22	506	706.20	616	766.70	770	847.88	946	1012.88	1100	1184.26
1080	24	552	770.40	672	836.40	840	924.96	1032	1104.96	1200	1291.92
1170	26	598	834.60	728	906.10	910	1002.04	1118	1197.04	1300	1399.58
1260	28	644	898.80	784	975.80	980	1079.12	1204	1289.12	1400	1507.24
1350	30	690	963.00	840	1045.50	1050	1156.20	1290	1381.20	1500	1614.90
1440	32	736	1027.20	896	1115.20	1120	1233.28	1376	1473.28	1600	1722.56
1530	34	782	1091.40	952	1184.90	1190	1310.36	1462	1565.36	1700	1830.22
1620	36	828	1155.60	1008	1254.60	1260	1387.44	1548	1657.44	1800	1937.88
1710	38	874	1219.80	1064	1324.30	1330	1464.52	1634	1749.52	1900	2045.54
1800	40	920	1284.00	1120	1394.00	1400	1541.60	1720	1841.60	2000	2153.20
1890	42	966	1348.20	1176	1463.70	1470	1618.68	1806	1933.68	2100	2260.86
1980	44	1012	1412.40	1232	1533.40	1540	1695.76	1892	2025.76	2200	2368.52
2070	46	1058	1476.60	1288	1603.10	1610	1772.84	1978	2117.84	2300	2476.18
2160	48	1104	1540.80	1344	1672.80	1680	1849.92	2064	2209.92	2400	2583.84
2250	50	1150	1605.00	1400	1742.50	1750	1927.00	2150	2302.00	2500	2691.50
2340	52	1196	1669.20	1456	1812.20	1820	2004.08	2236	2394.08	2600	2799.16
2430	54	1242	1733.40	1512	1881.90	1890	2081.16	2322	2486.16	2700	2906.82
2520	56	1288	1797.60	1568	1951.60	1960	2158.24	2408	2578.24	2800	3014.48
2610	58	1334	1861.80	1624	2021.30	2030	2235.32	2494	2670.32	2900	3122.14
2700	60	1380	1926.00	1680	2091.00	2100	2312.40	2580	2762.40	3000	3229.80
Maximum number of elements per block		66		66		66		66		66	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

Order Cambiotherm column radiators using completely configured order numbers

Cambiotherm column radiators with up to a maximum number of elements per block can be ordered with an order number.

Cambiotherm column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Delivery:

- Cambiotherm column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia Cambiotherm column radiator; standard without built-in valve; 2-pipe connection with 4 x ½" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Standard Cambiotherm column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x ½" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 370 MM

with heat output per element depending on the depth



Type	2037	3037	4037	5037	6037
Order number	RRN20037...2.XA	RRN30037...2.XA	RRN40037...2.XA	RRN50037...2.XA	RRN60037...2.XA
Height H [mm]	370	370	370	370	370
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.55	0.83	1.10	1.44	1.74
Exponent n []	1.3000	1.3000	1.3000	1.3000	1.3000
Standard heat output Φ_s [watts/el.]	27	38	48	58	68
Price per element [EUR/el.]	32.99	37.07	40.67	48.47	57.06

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	162	197.94	228	222.42	288	244.02	348	290.82	408	342.36
360	8	216	263.92	304	296.56	384	325.36	464	387.76	544	456.48
450	10	270	329.90	380	370.70	480	406.70	580	484.70	680	570.60
540	12	324	395.88	456	444.84	576	488.04	696	581.64	816	684.72
630	14	378	461.86	532	518.98	672	569.38	812	678.58	952	798.84
720	16	432	527.84	608	593.12	768	650.72	928	775.52	1088	912.96
810	18	486	593.82	684	667.26	864	732.06	1044	872.46	1224	1027.08
900	20	540	659.80	760	741.40	960	813.40	1160	969.40	1360	1141.20
990	22	594	725.78	836	815.54	1056	894.74	1276	1066.34	1496	1255.32
1080	24	648	791.76	912	889.68	1152	976.08	1392	1163.28	1632	1369.44
1170	26	702	857.74	988	963.82	1248	1057.42	1508	1260.22	1768	1483.56
1260	28	756	923.72	1064	1037.96	1344	1138.76	1624	1357.16	1904	1597.68
1350	30	810	989.70	1140	1112.10	1440	1220.10	1740	1454.10	2040	1711.80
1440	32	864	1055.68	1216	1186.24	1536	1301.44	1856	1551.04	2176	1825.92
1530	34	918	1121.66	1292	1260.38	1632	1382.78	1972	1647.98	2312	1940.04
1620	36	972	1187.64	1368	1334.52	1728	1464.12	2088	1744.92	2448	2054.16
1710	38	1026	1253.62	1444	1408.66	1824	1545.46	2204	1841.86	2584	2168.28
1800	40	1080	1319.60	1520	1482.80	1920	1626.80	2320	1938.80	2720	2282.40
1890	42	1134	1385.58	1596	1556.94	2016	1708.14	2436	2035.74	2856	2396.52
1980	44	1188	1451.56	1672	1631.08	2112	1789.48	2552	2132.68	2992	2510.64
2070	46	1242	1517.54	1748	1705.22	2208	1870.82	2668	2229.62	3128	2624.76
2160	48	1296	1583.52	1824	1779.36	2304	1952.16	2784	2326.56	3264	2738.88
2250	50	1350	1649.50	1900	1853.50	2400	2033.50	2900	2423.50	3400	2853.00
2340	52	1404	1715.48	1976	1927.64	2496	2114.84	3016	2520.44	3536	2967.12
2430	54	1458	1781.46	2052	2001.78	2592	2196.18	3132	2617.38	3672	3081.24
2520	56	1512	1847.44	2128	2075.92	2688	2277.52	3248	2714.32	3808	3195.36
2610	58	1566	1913.42	2204	2150.06	2784	2358.86	3364	2811.26	3944	3309.48
2700	60	1620	1979.40	2280	2224.20	2880	2440.20	3480	2908.20	4080	3423.60
Maximum number of elements per block		66		66		66		66		66	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⚠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Caution!

Only the connection arrangements 12, 34, 14, 32, 23, and 41 are suitable for the replacement of steel/cast iron radiators according to DIN 4722.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Additional charge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

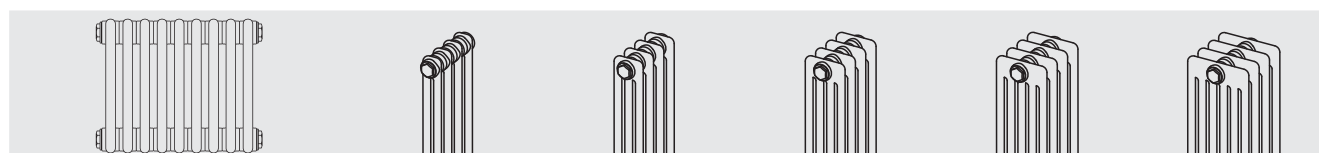
Connection system	Connection arrangement	Additional charge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	69, 89, 50, and 70	342.43 €
	96 and 98	455.15 €
61, 81, 62, and 82	Valve on side at bottom 05 and 07	455.15 €

The orange printed information on the connection system and connection arrangement can be ordered via the order number.



PRICES AND OUTPUTS – HEIGHT OF 420 MM

with heat output per element depending on the depth



Type		2042	3042	4042	5042	6042
Order number		RRN20042...2.XA	RRN30042...2.XA	RRN40042...2.XA	RRN50042...2.XA	RRN60042...2.XA
Height H	[mm]	420	420	420	420	420
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.62	0.92	1.23	1.59	1.92
Exponent n	[]	1.3000	1.3000	1.3000	1.3000	1.3000
Standard heat output Φ_s	[watts/el.]	31	43	54	66	78
Price per element	[EUR/el.]	33.88	38.03	42.38	50.60	59.17

Length L	Length	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price	Φ_s ΔT 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
270	6	186	203.28	258	228.18	324	254.28	396	303.60	468	355.02
360	8	248	271.04	344	304.24	432	339.04	528	404.80	624	473.36
450	10	310	338.80	430	380.30	540	423.80	660	506.00	780	591.70
540	12	372	406.56	516	456.36	648	508.56	792	607.20	936	710.04
630	14	434	474.32	602	532.42	756	593.32	924	708.40	1092	828.38
720	16	496	542.08	688	608.48	864	678.08	1056	809.60	1248	946.72
810	18	558	609.84	774	684.54	972	762.84	1188	910.80	1404	1065.06
900	20	620	677.60	860	760.60	1080	847.60	1320	1012.00	1560	1183.40
990	22	682	745.36	946	836.66	1188	932.36	1452	1113.20	1716	1301.74
1080	24	744	813.12	1032	912.72	1296	1017.12	1584	1214.40	1872	1420.08
1170	26	806	880.88	1118	988.78	1404	1101.88	1716	1315.60	2028	1538.42
1260	28	868	948.64	1204	1064.84	1512	1186.64	1848	1416.80	2184	1656.76
1350	30	930	1016.40	1290	1140.90	1620	1271.40	1980	1518.00	2340	1775.10
1440	32	992	1084.16	1376	1216.96	1728	1356.16	2112	1619.20	2496	1893.44
1530	34	1054	1151.92	1462	1293.02	1836	1440.92	2244	1720.40	2652	2011.78
1620	36	1116	1219.68	1548	1369.08	1944	1525.68	2376	1821.60	2808	2130.12
1710	38	1178	1287.44	1634	1445.14	2052	1610.44	2508	1922.80	2964	2248.46
1800	40	1240	1355.20	1720	1521.20	2160	1695.20	2640	2024.00	3120	2366.80
1890	42	1302	1422.96	1806	1597.26	2268	1779.96	2772	2125.20	3276	2485.14
1980	44	1364	1490.72	1892	1673.32	2376	1864.72	2904	2226.40	3432	2603.48
2070	46	1426	1558.48	1978	1749.38	2484	1949.48	3036	2327.60	3588	2721.82
2160	48	1488	1626.24	2064	1825.44	2592	2034.24	3168	2428.80	3744	2840.16
2250	50	1550	1694.00	2150	1901.50	2700	2119.00	3300	2530.00	3900	2958.50
2340	52	1612	1761.76	2236	1977.56	2808	2203.76	3432	2631.20	4056	3076.84
2430	54	1674	1829.52	2322	2053.62	2916	2288.52	3564	2732.40	4212	3195.18
2520	56	1736	1897.28	2408	2129.68	3024	2373.28	3696	2833.60	4368	3313.52
2610	58	1798	1965.04	2494	2205.74	3132	2458.04	3828	2934.80	4524	3431.86
2700	60	1860	2032.80	2580	2281.80	3240	2542.80	3960	3036.00	4680	3550.20
Maximum number of elements per block		66		66		66		66		66	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

Order Cambiotherm column radiators using completely configured order numbers

Cambiotherm column radiators with up to a maximum number of elements per block can be ordered with an order number.

Cambiotherm column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Delivery:

- Cambiotherm column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia Cambiotherm column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Standard Cambiotherm column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.



PRICES AND OUTPUTS – HEIGHT OF 570 MM

with heat output per element depending on the depth



Type	2057	3057	4057	5057	6057
Order number	RRN20057...2.XA	RRN30057...2.XA	RRN40057...2.XA	RRN50057...2.XA	RRN60057...2.XA
Height H [mm]	570	570	570	570	570
Depth T [mm]	65	105	145	185	225
Ø Mass per element M [kg/el.]	0.80	1.19	1.59	2.05	2.47
Exponent n []	1.3000	1.3000	1.3000	1.3000	1.3000
Standard heat output Φ_s [watts/el.]	42	58	74	90	105
Price per element [EUR/el.]	36.43	41.60	47.11	55.87	65.92

Length L [mm]	Length [el.]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]	Φ_s ΔT 50 K [watt]	Price [EUR]
270	6	252	218.58	348	249.60	444	282.66	540	335.22	630	395.52
360	8	336	291.44	464	332.80	592	376.88	720	446.96	840	527.36
450	10	420	364.30	580	416.00	740	471.10	900	558.70	1050	659.20
540	12	504	437.16	696	499.20	888	565.32	1080	670.44	1260	791.04
630	14	588	510.02	812	582.40	1036	659.54	1260	782.18	1470	922.88
720	16	672	582.88	928	665.60	1184	753.76	1440	893.92	1680	1054.72
810	18	756	655.74	1044	748.80	1332	847.98	1620	1005.66	1890	1186.56
900	20	840	728.60	1160	832.00	1480	942.20	1800	1117.40	2100	1318.40
990	22	924	801.46	1276	915.20	1628	1036.42	1980	1229.14	2310	1450.24
1080	24	1008	874.32	1392	998.40	1776	1130.64	2160	1340.88	2520	1582.08
1170	26	1092	947.18	1508	1081.60	1924	1224.86	2340	1452.62	2730	1713.92
1260	28	1176	1020.04	1624	1164.80	2072	1319.08	2520	1564.36	2940	1845.76
1350	30	1260	1092.90	1740	1248.00	2220	1413.30	2700	1676.10	3150	1977.60
1440	32	1344	1165.76	1856	1331.20	2368	1507.52	2880	1787.84	3360	2109.44
1530	34	1428	1238.62	1972	1414.40	2516	1601.74	3060	1899.58	3570	2241.28
1620	36	1512	1311.48	2088	1497.60	2664	1695.96	3240	2011.32	3780	2373.12
1710	38	1596	1384.34	2204	1580.80	2812	1790.18	3420	2123.06	3990	2504.96
1800	40	1680	1457.20	2320	1664.00	2960	1884.40	3600	2234.80	4200	2636.80
1890	42	1764	1530.06	2436	1747.20	3108	1978.62	3780	2346.54	4410	2768.64
1980	44	1848	1602.92	2552	1830.40	3256	2072.84	3960	2458.28	4620	2900.48
2070	46	1932	1675.78	2668	1913.60	3404	2167.06	4140	2570.02	4830	3032.32
2160	48	2016	1748.64	2784	1996.80	3552	2261.28	4320	2681.76	5040	3164.16
2250	50	2100	1821.50	2900	2080.00	3700	2355.50	4500	2793.50	5250	3296.00
2340	52	2184	1894.36	3016	2163.20	3848	2449.72	4680	2905.24	5460	3427.84
2430	54	2268	1967.22	3132	2246.40	3996	2543.94	4860	3016.98	5670	3559.68
2520	56	2352	2040.08	3248	2329.60	4144	2638.16	5040	3128.72	5880	3691.52
2610	58	2436	2112.94	3364	2412.80	4292	2732.38	5220	3240.46	6090	3823.36
2700	60	2520	2185.80	3480	2496.00	4440	2826.60	5400	3352.20	6300	3955.20
Maximum number of elements per block		66		66		66		66		66	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Caution!

Only the connection arrangements 12, 34, 14, 32, 23, and 41 are suitable for the replacement of steel/cast iron radiators according to DIN 4722.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Additional charge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

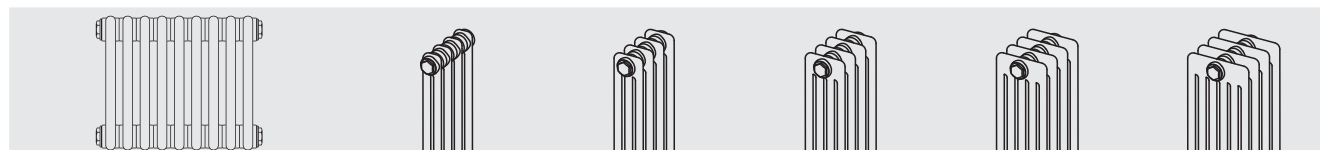
Connection system	Connection arrangement	Additional charge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	69, 89, 50, and 70	342.43 €
	96 and 98	455.15 €
61, 81, 62, and 82	Valve on side at bottom 05 and 07	455.15 €

The orange printed information on the connection system and connection arrangement can be ordered via the order number.



PRICES AND OUTPUTS – HEIGHT OF 670 MM

with heat output per element depending on the depth



Type		2067	3067	4067	5067	6067
Order number		RRN20067...2.XA	RRN30067...2.XA	RRN40067...2.XA	RRN50067...2.XA	RRN60067...2.XA
Height H	[mm]	670	670	670	670	670
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	0.92	1.37	1.83	2.35	2.83
Exponent n	[]	1.3000	1.3000	1.3000	1.3000	1.3000
Standard heat output Φ_s	[watts/el.]	51	68	86	106	124
Price per element	[EUR/el.]	37.94	44.61	53.49	64.33	75.10

Length L	Length	$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K		$\Phi_s \Delta T$ 50 K	
		[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
270	6	306	227.64	408	267.66	516	320.94	636	385.98	744	450.60
360	8	408	303.52	544	356.88	688	427.92	848	514.64	992	600.80
450	10	510	379.40	680	446.10	860	534.90	1060	643.30	1240	751.00
540	12	612	455.28	816	535.32	1032	641.88	1272	771.96	1488	901.20
630	14	714	531.16	952	624.54	1204	748.86	1484	900.62	1736	1051.40
720	16	816	607.04	1088	713.76	1376	855.84	1696	1029.28	1984	1201.60
810	18	918	682.92	1224	802.98	1548	962.82	1908	1157.94	2232	1351.80
900	20	1020	758.80	1360	892.20	1720	1069.80	2120	1286.60	2480	1502.00
990	22	1122	834.68	1496	981.42	1892	1176.78	2332	1415.26	2728	1652.20
1080	24	1224	910.56	1632	1070.64	2064	1283.76	2544	1543.92	2976	1802.40
1170	26	1326	986.44	1768	1159.86	2236	1390.74	2756	1672.58	3224	1952.60
1260	28	1428	1062.32	1904	1249.08	2408	1497.72	2968	1801.24	3472	2102.80
1350	30	1530	1138.20	2040	1338.30	2580	1604.70	3180	1929.90	3720	2253.00
1440	32	1632	1214.08	2176	1427.52	2752	1711.68	3392	2058.56	3968	2403.20
1530	34	1734	1289.96	2312	1516.74	2924	1818.66	3604	2187.22	4216	2553.40
1620	36	1836	1365.84	2448	1605.96	3096	1925.64	3816	2315.88	4464	2703.60
1710	38	1938	1441.72	2584	1695.18	3268	2032.62	4028	2444.54	4712	2853.80
1800	40	2040	1517.60	2720	1784.40	3440	2139.60	4240	2573.20	4960	3004.00
1890	42	2142	1593.48	2856	1873.62	3612	2246.58	4452	2701.86	5208	3154.20
1980	44	2244	1669.36	2992	1962.84	3784	2353.56	4664	2830.52	5456	3304.40
2070	46	2346	1745.24	3128	2052.06	3956	2460.54	4876	2959.18	5704	3454.60
2160	48	2448	1821.12	3264	2141.28	4128	2567.52	5088	3087.84	5952	3604.80
2250	50	2550	1897.00	3400	2230.50	4300	2674.50	5300	3216.50	6200	3755.00
2340	52	2652	1972.88	3536	2319.72	4472	2781.48	5512	3345.16	6448	3905.20
2430	54	2754	2048.76	3672	2408.94	4644	2888.46	5724	3473.82	6696	4055.40
2520	56	2856	2124.64	3808	2498.16	4816	2995.44	5936	3602.48	6944	4205.60
2610	58	2958	2200.52	3944	2587.38	4988	3102.42	6148	3731.14	7192	4355.80
2700	60	3060	2276.40	4080	2676.60	5160	3209.40	6360	3859.80	7440	4506.00
Maximum number of elements per block		66		66		66		66		66	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

Order Cambiotherm column radiators using completely configured order numbers

Cambiotherm column radiators with up to a maximum number of elements per block can be ordered with an order number.

Cambiotherm column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Delivery:

- Cambiotherm column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia Cambiotherm column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Standard Cambiotherm column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.

General information

Model Standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information



PRICES AND OUTPUTS – HEIGHT OF 970 MM

with heat output per element depending on the depth



Type		2097	3097	4097	5097	6097
Order number		RRN20097...2.XA	RRN30097...2.XA	RRN40097...2.XA	RRN50097...2.XA	RRN60097...2.XA
Height H	[mm]	970	970	970	970	970
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.28	1.92	2.56	3.26	3.92
Exponent n	[]	1.3000	1.3000	1.3000	1.3000	1.3000
Standard heat output Φ_s	[watts/el.]	72	99	125	153	179
Price per element	[EUR/el.]	42.27	50.32	66.58	77.79	91.09

Length L [mm]	Length [el.]	Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K		Φ_s ΔT 50 K	
		[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
270	6	432	253.62	594	301.92	750	399.48	918	466.74	1074	546.54
360	8	576	338.16	792	402.56	1000	532.64	1224	622.32	1432	728.72
450	10	720	422.70	990	503.20	1250	665.80	1530	777.90	1790	910.90
540	12	864	507.24	1188	603.84	1500	798.96	1836	933.48	2148	1093.08
630	14	1008	591.78	1386	704.48	1750	932.12	2142	1089.06	2506	1275.26
720	16	1152	676.32	1584	805.12	2000	1065.28	2448	1244.64	2864	1457.44
810	18	1296	760.86	1782	905.76	2250	1198.44	2754	1400.22	3222	1639.62
900	20	1440	845.40	1980	1006.40	2500	1331.60	3060	1555.80	3580	1821.80
990	22	1584	929.94	2178	1107.04	2750	1464.76	3366	1711.38	3938	2003.98
1080	24	1728	1014.48	2376	1207.68	3000	1597.92	3672	1866.96	4296	2186.16
1170	26	1872	1099.02	2574	1308.32	3250	1731.08	3978	2022.54	4654	2368.34
1260	28	2016	1183.56	2772	1408.96	3500	1864.24	4284	2178.12	5012	2550.52
1350	30	2160	1268.10	2970	1509.60	3750	1997.40	4590	2333.70	5370	2732.70
1440	32	2304	1352.64	3168	1610.24	4000	2130.56	4896	2489.28	5728	2914.88
1530	34	2448	1437.18	3366	1710.88	4250	2263.72	5202	2644.86	6086	3097.06
1620	36	2592	1521.72	3564	1811.52	4500	2396.88	5508	2800.44	6444	3279.24
1710	38	2736	1606.26	3762	1912.16	4750	2530.04	5814	2956.02	6802	3461.42
1800	40	2880	1690.80	3960	2012.80	5000	2663.20	6120	3111.60	7160	3643.60
1890	42	3024	1775.34	4158	2113.44	5250	2796.36	6426	3267.18	7518	3825.78
1980	44	3168	1859.88	4356	2214.08	5500	2929.52	6732	3422.76	7876	4007.96
2070	46	3312	1944.42	4554	2314.72	5750	3062.68	7038	3578.34	8234	4190.14
2160	48	3456	2028.96	4752	2415.36	6000	3195.84	7344	3733.92	8592	4372.32
2250	50	3600	2113.50	4950	2516.00	6250	3329.00	7650	3889.50	8950	4554.50
2340	52	3744	2198.04	5148	2616.64	6500	3462.16	7956	4045.08	9308	4736.68
2430	54	3888	2282.58	5346	2717.28	6750	3595.32	8262	4200.66	9666	4918.86
2520	56	4032	2367.12	5544	2817.92	7000	3728.48	8568	4356.24	10024	5101.04
2610	58	4176	2451.66	5742	2918.56	7250	3861.64	8874	4511.82	10382	5283.22
2700	60	4320	2536.20	5940	3019.20	7500	3994.80	9180	4667.40	10740	5465.40
Maximum number of elements per block		66		66		66		66		58	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

■ Mass per radiator > 125 kg (empty weight)

Standard heat output Φ_s and Φ_e at 75 / 65 / 20 °C (ΔT 50 K) acc. to EN 442

⊠ The version with connection image 69, 89, 96, 98, 50, 70, 07, 05 is not available with built-in valve.

Caution!

Only the connection arrangements 12, 34, 14, 32, 23, and 41 are suitable for the replacement of steel/cast iron radiators according to DIN 4722.

Connection surcharge (per radiator) **without built-in valve**

Connection system	Connection arrangement	Additional charge
	12, 34, 14, and 32	–
	24 and 42	22.30 €
2	13, 31, 23, and 41	53.65 €
	68, 86, 58, 76, 69, 89, 50, and 70	113.91 €
	57, 75, 67, 85, 96, 98, 05 and 07	156.83 €

Connection surcharge (per radiator) **with built-in valve**

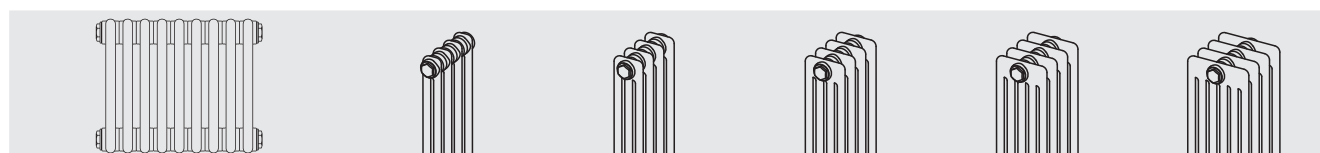
Connection system	Connection arrangement	Additional charge
	69 and 89	243.66 €
31, 41, 32, and 42	Valve on side at top 96 and 98	356.38 €
	50 and 70	243.66 €
	69, 89, 50, and 70	342.43 €
	96 and 98	455.15 €
61, 81, 62, and 82	Valve on side at bottom 05 and 07	455.15 €

The orange printed information on the connection system and connection arrangement can be ordered via the order number.



PRICES AND OUTPUTS – HEIGHT OF 1070 MM

with heat output per element depending on the depth



Type		2107	3107	4107	5107	6107
Order number		RRN20107...2.XA	RRN30107...2.XA	RRN40107...2.XA	RRN50107...2.XA	RRN60107...2.XA
Height H	[mm]	1070	1070	1070	1070	1070
Depth T	[mm]	65	105	145	185	225
Ø Mass per element M	[kg/el.]	1.40	2.10	2.80	3.56	4.29
Exponent n	[]	1.3000	1.3000	1.3000	1.3000	1.3000
Standard heat output Φ_s	[watts/el.]	79	109	138	169	198
Price per element	[EUR/el.]	43.89	56.54	73.59	90.28	107.39

Length L	Length	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price	$\Phi_s \Delta T$ 50 K	Price
[mm]	[el.]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]	[watt]	[EUR]
270	6	474	263.34	654	339.24	828	441.54	1014	541.68	1188	644.34
360	8	632	351.12	872	452.32	1104	588.72	1352	722.24	1584	859.12
450	10	790	438.90	1090	565.40	1380	735.90	1690	902.80	1980	1073.90
540	12	948	526.68	1308	678.48	1656	883.08	2028	1083.36	2376	1288.68
630	14	1106	614.46	1526	791.56	1932	1030.26	2366	1263.92	2772	1503.46
720	16	1264	702.24	1744	904.64	2208	1177.44	2704	1444.48	3168	1718.24
810	18	1422	790.02	1962	1017.72	2484	1324.62	3042	1625.04	3564	1933.02
900	20	1580	877.80	2180	1130.80	2760	1471.80	3380	1805.60	3960	2147.80
990	22	1738	965.58	2398	1243.88	3036	1618.98	3718	1986.16	4356	2362.58
1080	24	1896	1053.36	2616	1356.96	3312	1766.16	4056	2166.72	4752	2577.36
1170	26	2054	1141.14	2834	1470.04	3588	1913.34	4394	2347.28	5148	2792.14
1260	28	2212	1228.92	3052	1583.12	3864	2060.52	4732	2527.84	5544	3006.92
1350	30	2370	1316.70	3270	1696.20	4140	2207.70	5070	2708.40	5940	3221.70
1440	32	2528	1404.48	3488	1809.28	4416	2354.88	5408	2888.96	6336	3436.48
1530	34	2686	1492.26	3706	1922.36	4692	2502.06	5746	3069.52	6732	3651.26
1620	36	2844	1580.04	3924	2035.44	4968	2649.24	6084	3250.08	7128	3866.04
1710	38	3002	1667.82	4142	2148.52	5244	2796.42	6422	3430.64	7524	4080.82
1800	40	3160	1755.60	4360	2261.60	5520	2943.60	6760	3611.20	7920	4295.60
1890	42	3318	1843.38	4578	2374.68	5796	3090.78	7098	3791.76	8316	4510.38
1980	44	3476	1931.16	4796	2487.76	6072	3237.96	7436	3972.32	8712	4725.16
2070	46	3634	2018.94	5014	2600.84	6348	3385.14				
2160	48	3792	2106.72	5232	2713.92	6624	3532.32				
2250	50	3950	2194.50	5450	2827.00	6900	3679.50				
2340	52	4108	2282.28	5668	2940.08	7176	3826.68				
2430	54	4266	2370.06	5886	3053.16	7452	3973.86				
2520	56	4424	2457.84	6104	3166.24	7728	4121.04				
2610	58	4582	2545.62	6322	3279.32	8004	4268.22				
2700	60	4740	2633.40	6540	3392.40	8280	4415.40				
Maximum number of elements per block		66		66		66		44		44	
Maximum number of elements for second block / third block		22 / 22		22 / 22		22 / 22		22 / 22		22 / 22	

Order Cambiotherm column radiators using completely configured order numbers

Cambiotherm column radiators with up to a maximum number of elements per block can be ordered with an order number.

Cambiotherm column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

Delivery:

- Cambiotherm column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Version 1:
 - Arbonia Cambiotherm column radiator; standard without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; colour RAL 9016 white; air vent and blanking plug are included.
- Version 2:
 - Standard Cambiotherm column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; colour RAL 9016 white; air vent is installed.

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

Accessories

Further
information



2-PIPE CONNECTIONS WITHOUT BUILT-IN VALVE

Connection system	Ordering code 5	ζ value	Position ordering code 6				Connection size	Ordering code 7		Surcharge per radiator [EUR]
			Flow	Return	Flow	Return				
2-pipe, side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			–
2-pipe, on side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			22.30
2-pipe, side	2	2.5					G 3/8" G 1/2" G 3/4" G 1"			53.65
2-pipe, from bottom, from top	2	2.5					G 3/8" G 1/2" G 3/4"	38 12 34 10	38 12 34 10	113.91
2-pipe, from bottom, from top, side by side	2	2.5					G 3/8" G 1/2"			
2-pipe, from bottom, from top	2	2.5					G 3/8" G 1/2" G 3/4"			156.83
2-pipe, from bottom, from top, centre	2	2.5					G 1/2"			
Special connections – design according to drawing – ordering code 151 = 99										On request

L: recommended position for air vent connection;
○ Standard cut-off wheel; ● 100 % tight cut-off wheel

Caution!

Only the connection arrangements 12, 34, 14, 32, 23, and 41 are suitable for the replacement of steel/cast iron radiators according to DIN 4722.

The connection options 69, 89, 50, 70, 96, 98, 07, and 05 are not possible for all lengths (see price and output tables).

Starting from height of 1800 mm, a drain is additionally installed for process engineering reasons.

Order Cambiotherm column radiators using completely configured order numbers

Cambiotherm column radiators with up to a maximum number of elements per block can be ordered with an order number.

Cambiotherm column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

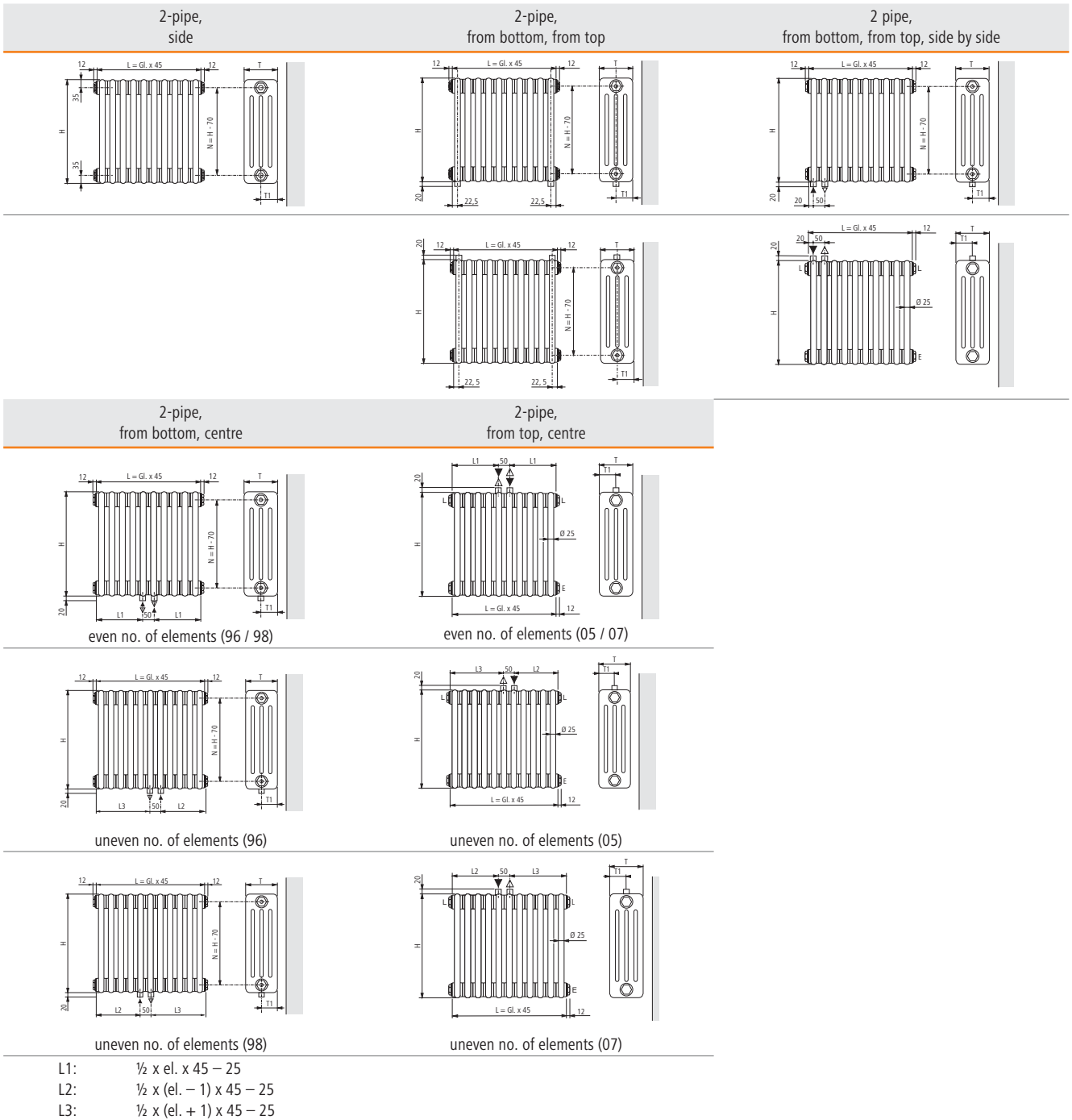
Code for the order number at position 13

R R N **2** X A

- Cambiotherm column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
- Cambiotherm column radiator without built-in valve; 2-pipe connection with 4 x 1/2" connections for connection image 12, 34, 14, or 32; air vent and blanking plug are included.



DIMENSIONAL DRAWINGS FOR CAMBIO THERM



H: height
L: length
N: hub distance

Number of columns	T [mm]	T1 [mm]
2 columns	65	32.5
3 columns	105	52.5
4 columns	145	72.5
5 columns	185	92.5
6 columns	225	112.5



2-PIPE CONNECTIONS WITH BUILT-IN VALVE



General

In this special version of the column radiator, a factory k_v preset valve is built in.

- Maximum length as with column radiators or Cambiotherm without built-in valve (see "Maximum length"):
 - Can be nipped with valve arranged at top (delivery in sub-blocks possible)
 - Cannot be nipped with valve arranged at bottom (delivered in a single piece)
- Surface finish as with column radiators without built-in valve

Range available

- Factory k_v-preset built-in valve, arranged at top or bottom, right or left
- Standard connection:
 - 2-pipe connection bottom or top, on same side (on the side of the valve) or centre with hub distance 50 mm
 - Connection size: G ½" internal thread or G ¾" external thread
 - Flow welded into the 1st element, return into the 2nd element
 - For the version with valve arranged at the bottom, two air vents are provided
- Thermostatic sensor head is not included in the scope of delivery and must be ordered as an accessory
- Not available in high-pressure version

Special versions

- 2-pipe connections (for valve arranged at top or bottom, on request):
 - From top, on alternating sides
- Version as additional block that can be nipped:
 - With valve arranged at top
 - Length 2 elements
- Column radiator, angled or curved version:
 - With valve arranged at top
 - The first three elements in each case cannot be angled or bent
- In the case of a connection from top, the heat output can be reduced

Connection system	Ordering code 5	Position ordering code 6	Conn. size	Ordering code 7		Surcharge per radiator [EUR]
				Flow	Return	
2-pipe from bottom, built-in valve integrated on side at top	31 Standard valve insert with M30 x 1.5 connection					
	41 Valve with fine adjustment and M 30 x 1.5 connection			G ½"	12 12	243.66
	32 Standard valve with clamp connection			G ¾"	84 84	261.97
	42 Valve with fine adjustment and clamp connection					
	31 Standard valve insert with M30 x 1.5 connection			G ½"	12 12	356.38
	42 Valve with fine adjustment and clamp connection			G ¾"	84 84	374.69
2-pipe from bottom, built-in valve integrated laterally at the bottom	61 Standard valve insert with M30 x 1.5 connection					
	81 Valve with fine adjustment and M 30 x 1.5 connection			G ½"	12 12	342.43
	62 Standard valve with clamp connection			G ¾"	84 84	360.74
	82 Valve with fine adjustment and clamp connection					
	61 Standard valve insert with M30 x 1.5 connection			G ½"	12 12	455.15
	82 Valve with fine adjustment and clamp connection			G ¾"	84 84	473.46
2-pipe from top, built-in valve integrated laterally on top	31 Standard valve insert with M30 x 1.5 connection					
	41 Valve with fine adjustment and M 30 x 1.5 connection			G ½"	12 12	243.66
	32 Standard valve with clamp connection			G ¾"	84 84	261.97
	42 Valve with fine adjustment and clamp connection					
2-pipe from top, built-in valve integrated laterally at the bottom	61 Standard valve insert with M30 x 1.5 connection					
	81 Valve with fine adjustment and M 30 x 1.5 connection			G ½"	12 12	342.43
	62 Standard valve with clamp connection			G ¾"	84 84	360.74
	82 Valve with fine adjustment and clamp connection					
	61 Standard valve insert with M30 x 1.5 connection			G ½"	12 12	455.15
	82 Valve with fine adjustment and clamp connection			G ¾"	84 84	473.46

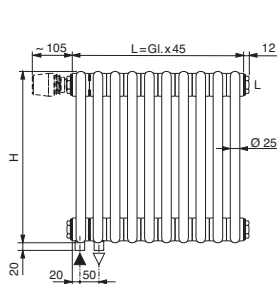
L: recommended position for air vent connection

G ½": internal thread; G ¾": external thread



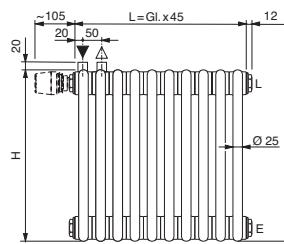
DIMENSIONAL DRAWINGS BUILT-IN VALVE AT TOP

Connection (69) bottom side ¹⁾

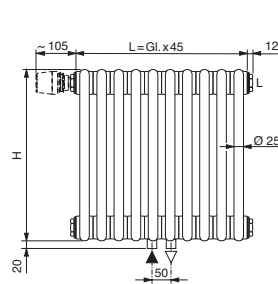


¹⁾ Minimum length: 4 elements

Connection (50) top side ¹⁾



Connection (98) bottom centre ³⁾

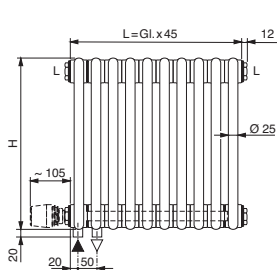


³⁾ Minimum length: 8 elements

Centre connection only possible with an even number of elements (with uneven number of elements, connections are offset right or left)

DIMENSIONAL DRAWINGS BUILT-IN VALVE AT BOTTOM

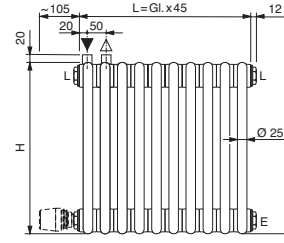
Connection (69) bottom side ^{1) 2)}



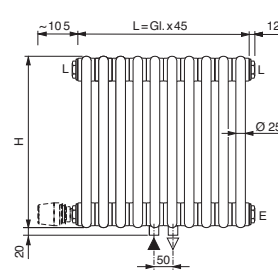
¹⁾ Minimum length: 4 elements

²⁾ For design reasons, there is no flow through the first element

Connection (50) top side ¹⁾



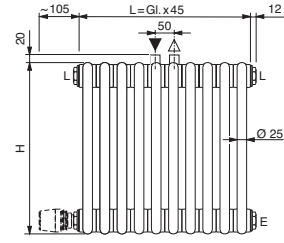
Connection (98) bottom centre ³⁾



³⁾ Minimum length: 8 elements

Centre connection only possible with an even number of elements (with uneven number of elements, connections are offset right or left)

Connection (07) top centre ³⁾



Note:

Please note the valve performance limits in the section "General information"

For connection image 98 and 96 with built-in valve on the side bottom, the hot-dip galvanised version is not possible.

Order Cambiotherm column radiators using completely configured order numbers

Cambiotherm column radiators with up to a maximum number of elements per block can be ordered with an order number.

Cambiotherm column radiators with more than the maximum number of elements per block can still be ordered in the usual way with the model number and the corresponding configuration. The delivery then takes place in several blocks/parts.

A delivery in several blocks/parts with an order number is not possible.

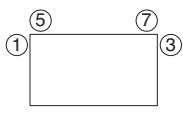
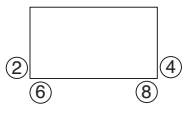
Code for the order number at position 13

R R V **6** X A

- Cambiotherm column radiator (2, 3, 4, 5, or 6 columns)
 - Note the maximum possible sizes.
 - Cambiotherm column radiator with built-in valve; standard valve with connection M30x1.5; 2-pipe connection bottom centre with 2 x 1/2" connections with hub distance 50 mm for connection image 96 or 98; air vent is installed.



AIR VENT AND DRAIN

Description			Feature	Ordering code	Surcharge per radiator [EUR]
Air vent	Type				
	Air vent connection	8	4	–	
	Built-in air vent with rotatable outlet – standard version	8	1	9.83	
	No air vent, only if imperative	8	3	–	
	Position				
	Position recommended by factory – standard version ¹⁾	9	–	–	
	Position on request ²⁾	9		23.72	
	Connection size				
	G 3/8" internal thread	10	38	–	
	G 1/2" internal thread	10	12	–	
Drain	Type				
	No drain, only if imperative – standard version ³⁾	11	3	–	
	Drain connection	11	4	–	
	Position				
	Position recommended by factory – standard version ¹⁾	12	–	–	
	Position on request ²⁾	12		23.72	
	Connection size				
	G 3/8" internal thread	13	38	–	
G 1/2" internal thread	13	12	–		

¹⁾ For position see diagrams for arrangement of the connections in the table "Connection options flow/return"

²⁾ If for technical reasons the connection cannot be placed at the desired position, it will instead be placed in the position recommended by the factory

³⁾ If for technical reasons drain connection is necessary, it is built-in at the factory as standard

ARBONIA COLUMN RADIATORS: BENCH RADIATOR



In the following section,
you will find:

- General, tender specifications
- Description
- Technical data
- Prices and outputs
- Connection options and dimensional drawing
- Air vent and drain



BENCH RADIATORS

You have made a good choice when you decide to install Arbonia bench radiators. These beautiful, top quality, state-of-the-art products provide the comfort that a discerning developer expects: More comfort thanks to the ideal distribution of the heat through radiation and convection, more options thanks to the wide range of radiator dimensions available, but also more safety (complies with statutory accident insurance conditions), as they have no corners or sharp edges. This is a valuable advantage, particularly in schools. Arbonia bench radiators are also greatly appreciated in public buildings, institutions, etc. because they are very easy to clean.

The bench radiator has the same technical properties – except height, length, hub distance, and heat output – of the column radiators.

Special features:

- Horizontal arrangement of elements
- Practical additional function in the form of a seat or storage surface
- A classic and timeless design
- Top in quality and comfort
- A uniquely large variety of models
- Powerful and comfortable
- High accident safety (compliant with statutory accident insurance)
- Safe and easy to install in accordance with VDI 6036

TENDER SPECIFICATIONS

Arbonia bench radiators

4–6 columns of steel; individual elements (height 45 mm) as a welded assembly group, consisting of head pieces (band steel pressings) and round precision steel pipes. Blocks welded together from elements up to the maximum height of the delivery unit. Ready to install with 4 threaded plugs for flow and return as well as for air vent and drain. Edges rounded on all sides with $R_{\min} = 2$ mm.

Coating according to DIN 55900 part 1 and part 2.

Design features comply with the basic principles for the testing of the health and safety of radiators (statutory accident insurance).

Compressive strength and watertightness tested.

Heat output tested and registered in accordance with EN 442.

CE-compliant.

Suitable for closed water heating systems in accordance with DIN 18380 and water quality in accordance with VDI 2035, ÖNORM H5195 and SWKI BT 102-01.

Maximum permissible operating temperature: 110 °C

Max. operating pressure:

4–6 columns 10 bar / 1000 kPa

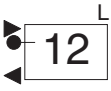
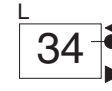

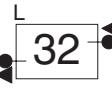


Packed safely for transport.

RANGE AVAILABLE

- 3 depths: 145–225 mm (4–6 columns)
- 4 radiator heights: 180–315 mm
- Height with bracket (adjustable, without bench): 565–710 mm
- 6 lengths: 1200–3000 mm
- 2-pipe connections
- Brackets ZB0032 included in the range available – see chapter “Fixings”.

The radiators are delivered as combined elements. Plugs and reductions with internal thread are included in the scope of delivery

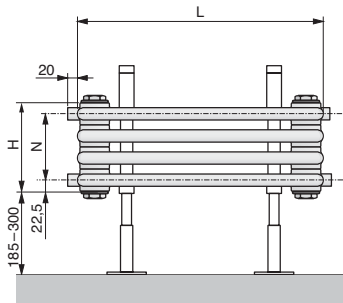
2-PIPE CONNECTIONS WITHOUT BUILT-IN VALVE

Connection system	Ordering code [5]	Position ordering code [6]				Connection size	Ordering code [7]		Surcharge per radiator [EUR]		
		Flow		Return							
2-pipe, on side	2					G 3/8"	38	38	-		
						G 1/2"				12	12
						G 3/4"				34	34
2-pipe, from bottom, from top	2					G 3/8"	10	10	-		
						G 1/2"					
						G 3/4"					
						G 1"					
Special connections – design according to drawing [5] = 99									On request		

L: recommended position for air vent connection;

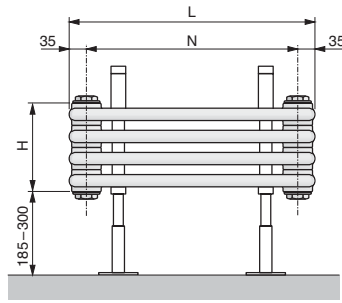
● 100 % dense cut-off wheel;

2-pipe, on side



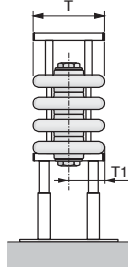
Quantity [el.]	N [mm]
4	135
5	180
6	225
7	270

2-pipe, from bottom



L [mm]	N [mm]
1200	1130
1500	1430
1800	1730
2000	1930
2500	2430
3000	2930

Side view



Quantity [columns]	T [mm]	T1 [mm]
4	145	72.5
5	185	92.5
6	225	112.5

- H: height
- L: length
- T: depth
- T1: 1/2 x depth
- N: hub distance

AIR VENT AND DRAIN

Similar to column radiator

General information

Model Standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiator

Arbonia Individual

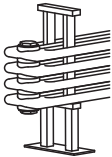
Fixing and dimensional drawings

Accessories

Further information

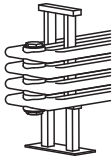


TECHNICAL DATA AND PRICE PER RADIATOR – DEPTH 145 MM

Depth T [mm]	Length		Type	Heat output EN 442				Expo- nent n []	Total weight M [kg]	Area A [m ²]	Water content W [l]	Standard water flow rate q _m [kg/h]	Radiation compo- nent s [%]	Price [EUR]
	L [mm]	Height H [mm]		Φ ΔT 60 K 90/70/20 °C [watt]	Φ _s ΔT 50 K 75/65/20 °C [watt]	Φ ΔT 42 K 70/55/20 °C [watt]	Φ ΔT 30 K 55/45/20 °C [watt]							
	1200	180	4F4120	937	745	598	380	1.30	14.40	1.50	8.50	50.4	33	941.25
		225	5F4120	1124	894	717	457	1.30	18.00	1.90	10.70	63.0	33	1016.08
		270	6F4120	1313	1044	837	533	1.30	21.50	2.30	12.80	75.6	33	1090.86
		315	7F4120	1517	1206	967	616	1.30	25.10	2.70	14.90	88.2	33	1165.65
	1500	180	4F4150	1176	935	750	478	1.30	17.80	1.90	10.40	62.0	33	1045.32
		225	5F4150	1411	1122	900	573	1.30	22.20	2.40	13.00	77.5	33	1146.18
		270	6F4150	1698	1350	1083	689	1.30	26.60	2.90	15.60	93.0	33	1246.96
		315	7F4150	1904	1514	1214	773	1.30	31.10	3.40	18.20	108.5	33	1347.82
	1800	180	4F4180	1405	1117	896	570	1.30	21.20	2.30	12.30	73.6	33	1126.65
		225	5F4180	1688	1342	1076	685	1.30	26.50	2.90	15.40	92.0	33	1247.83
		270	6F4180	1971	1567	1257	800	1.30	31.80	3.40	18.50	110.4	33	1369.01
		315	7F4180	2275	1809	1451	924	1.30	37.10	4.00	21.60	128.8	33	1490.09
2000	180	4F4200	1561	1241	995	634	1.30	23.50	2.60	13.60	81.6	33	1178.61	
	225	5F4200	1835	1459	1170	745	1.30	29.40	3.20	17.00	102.0	33	1312.80	
	270	6F4200	2188	1740	1396	889	1.30	35.20	3.80	20.40	122.4	33	1446.86	
	315	7F4200	2525	2008	1610	1026	1.30	41.10	4.50	23.80	142.8	33	1581.01	
2500	180	4F4250	1944	1546	1240	790	1.30	29.20	3.20	16.80	101.6	33	1424.04	
	225	5F4250	2333	1855	1488	947	1.30	36.50	4.00	21.00	127.0	33	1591.57	
	270	6F4250	2726	2168	1739	1107	1.30	43.70	4.70	25.10	152.4	33	1759.01	
	315	7F4250	3148	2503	2007	1278	1.30	51.00	5.50	29.30	177.8	33	1926.54	
3000	180	4F4300	2359	1876	1505	958	1.30	34.90	3.80	20.00	120.4	33	1565.83	
	225	5F4300	2833	2253	1807	1151	1.30	43.60	4.80	25.00	150.5	33	1768.80	
	270	6F4300	3309	2631	2110	1344	1.30	52.30	5.70	29.90	180.6	33	1971.73	
	315	7F4300	3821	3038	2437	1552	1.30	61.00	6.70	34.90	210.7	33	2174.63	

For individual calculations of heat output see "General Information"

TECHNICAL DATA AND PRICE PER RADIATOR – DEPTH 185 MM

Depth T [mm]	Length		Type	Heat output EN 442				Exponent n	Total weight M [kg]	Area A [m ²]	Water content W [l]	Standard water flow rate q _{res} [kg/h]	Radiation components [%]	Price [EUR]
	L [mm]	Height H [mm]		Φ ΔT 60 K 90/70/20 °C [watt]	Φ _s ΔT 50 K 75/65/20 °C [watt]	Φ ΔT 42 K 70/55/20 °C [watt]	Φ ΔT 30 K 55/45/20 °C [watt]							
	1200	180	4F5120	1132	900	722	460	1.30	18.00	1.90	10.60	61.6	30	1013.73
		225	5F5120	1357	1079	865	551	1.30	22.50	2.40	13.30	77.0	30	1106.61
		270	6F5120	1576	1253	1005	640	1.30	27.00	2.90	15.90	92.4	30	1199.57
		315	7F5120	1827	1453	1165	742	1.30	31.50	3.40	18.60	107.8	30	1292.49
	1500	180	4F5150	1432	1139	914	582	1.30	22.30	2.40	13.00	74.0	30	1141.39
		225	5F5150	1719	1367	1096	698	1.30	27.90	3.00	16.20	92.5	30	1266.28
		270	6F5150	1996	1587	1273	811	1.30	33.40	3.60	19.40	111.0	30	1391.09
		315	7F5150	2314	1840	1476	940	1.30	39.00	4.20	22.70	129.5	30	1515.93
	1800	180	4F5180	1696	1349	1082	689	1.30	26.60	2.90	15.40	88.0	30	1236.00
		225	5F5180	2035	1618	1298	826	1.30	33.20	3.60	19.20	110.0	30	1384.45
		270	6F5180	2363	1879	1507	960	1.30	39.80	4.30	23.00	132.0	30	1532.94
		315	7F5180	2742	2180	1748	1113	1.30	46.50	5.00	26.90	154.0	30	1681.41
2000	180	4F5200	1876	1492	1197	762	1.30	29.40	3.20	17.00	97.2	30	1298.83	
	225	5F5200	2207	1755	1408	896	1.30	36.80	4.00	21.20	121.5	30	1463.05	
	270	6F5200	2614	2079	1667	1062	1.30	44.10	4.80	25.40	145.8	30	1627.26	
	315	7F5200	3035	2413	1935	1232	1.30	51.50	5.60	29.70	170.1	30	1791.42	
2500	180	4F5250	2325	1849	1483	944	1.30	36.50	4.00	20.90	119.2	30	1573.51	
	225	5F5250	2793	2221	1781	1134	1.30	45.70	5.00	26.20	149.0	30	1778.38	
	270	6F5250	3242	2578	2068	1317	1.30	54.80	5.90	31.40	178.8	30	1983.25	
	315	7F5250	3759	2989	2397	1527	1.30	63.90	6.90	36.60	208.6	30	2188.07	
3000	180	4F5300	2779	2210	1772	1129	1.30	43.60	4.80	24.90	141.2	30	1729.41	
	225	5F5300	3340	2656	2130	1357	1.30	54.60	6.00	31.20	176.5	30	1973.18	
	270	6F5300	3875	3081	2471	1574	1.30	65.50	7.10	37.40	211.8	30	2217.03	
	315	7F5300	4497	3576	2868	1826	1.30	76.40	8.30	43.60	247.1	30	2460.89	

For individual calculations of heat output see "General Information"

General information

Model Standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiator

Arbonia Individual

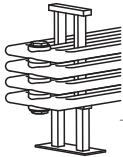
Fixing and dimensional drawings

Accessories

Further information



TECHNICAL DATA AND PRICE PER RADIATOR – DEPTH 225 MM

Depth T	Length		Type	Heat output EN 442				Expo- nent n	Total weight M	Area A	Water content W	Standard water flow rate q _m	Radiation compo- nent s	Price
	L	Height H		Φ ΔT 60 K 90/70/20 °C	Φ _s ΔT 50 K 75/65/20 °C	Φ ΔT 42 K 70/55/20 °C	Φ ΔT 30 K 55/45/20 °C							
[mm]	[mm]	[mm]		[watt]	[watt]	[watt]	[watt]	[]	[kg]	[m ²]	[l]	[kg/h]	[%]	[EUR]
	1200	180	4F6120	1352	1075	862	549	1.30	21.70	2.30	12.70	72.0	27	1075.05
		225	5F6120	1608	1279	1026	653	1.30	27.10	2.90	15.90	90.0	27	1183.29
		270	6F6120	1876	1492	1197	762	1.30	32.50	3.50	19.00	108.0	27	1291.59
		315	7F6120	2157	1715	1375	876	1.30	37.90	4.10	22.20	126.0	27	1399.80
	1500	180	4F6150	1705	1356	1088	693	1.30	26.80	2.90	15.50	86.0	27	1236.87
		225	5F6150	2030	1614	1294	824	1.30	33.50	3.60	19.40	107.5	27	1385.55
		270	6F6150	2368	1883	1510	962	1.30	40.20	4.30	23.30	129.0	27	1534.27
		315	7F6150	2721	2164	1736	1105	1.30	46.90	5.00	27.20	150.5	27	1682.95
	1800	180	4F6180	2027	1612	1293	823	1.30	31.90	3.40	18.40	102.0	27	1347.42
		225	5F6180	2413	1919	1539	980	1.30	39.90	4.30	23.00	127.5	27	1523.72
		270	6F6180	2814	2238	1795	1143	1.30	47.90	5.20	27.60	153.0	27	1700.05
		315	7F6180	3234	2572	2063	1314	1.30	55.90	6.00	32.20	178.5	27	1876.32
2000	180	4F6200	2236	1778	1426	908	1.30	35.40	3.80	20.30	113.6	27	1419.75	
	225	5F6200	2661	2116	1697	1081	1.30	44.20	4.80	25.40	142.0	27	1614.15	
	270	6F6200	3105	2469	1980	1261	1.30	53.00	5.70	30.50	170.4	27	1808.56	
	315	7F6200	3569	2838	2276	1449	1.30	61.90	6.70	35.60	198.8	27	2003.01	
2500	180	4F6250	2812	2236	1793	1142	1.30	43.90	4.80	25.10	138.8	27	1729.41	
	225	5F6250	3345	2660	2133	1359	1.30	54.90	6.00	31.40	173.5	27	1973.18	
	270	6F6250	3904	3104	2490	1585	1.30	65.80	7.10	37.60	208.2	27	2217.03	
	315	7F6250	4487	3568	2862	1822	1.30	76.80	8.30	43.90	242.9	27	2460.89	
3000	180	4F6300	3373	2682	2151	1370	1.30	52.40	5.70	29.80	165.2	27	1920.33	
	225	5F6300	4015	3193	2561	1631	1.30	65.60	7.20	37.30	206.5	27	2211.91	
	270	6F6300	4684	3725	2988	1902	1.30	78.70	8.60	44.80	247.8	27	2503.53	
	315	7F6300	5382	4280	3433	2186	1.30	91.80	10.00	52.20	289.1	27	2795.08	

For individual calculations of heat output see "General Information"

ARBONIA COLUMN RADIATORS: ARBONIA INDIVIDUAL



In the following section,
you will find:

- Special constructions
- Radiation shields made of glass and sheet metal
- Multi-section radiators
- On request
- Surface finishes



Standard column radiator, Cambiotherm, and Sano radiator:

- The limbs must be coupled together on site.
- A complete delivery is only possible in consultation with the factory.
- Please enclose a drawing with dimensions or template with your order
- Radiator must be suitable for transport

Standard column radiator and Cambiotherm:

- Minimum length: 12 elements
- The outer 3 elements cannot be bent in each case
- Please provide a drawing with dimensions or template with your order
- Radiator must be suitable for transport

Standard column radiator and Sano radiator:

- Arrangement of the floor-ceiling support as with FU
- On customer request, different arrangement also possible
- Adjustment to the room height with special height of the column radiator
- Welded on at the factory, cannot be installed subsequently

ANGLED DESIGN

Dimensional drawings	Ordering code	Surcharge per radiator
<p>Standard column radiator, Cambiotherm</p> <p>Sano radiator</p>	20	[EUR]
	71	on request

L1, L2: length of the limbs, measured on the wall
 α: angle
 W: wall spacing
 X: portion of axis length
 T: depth

Portion of the axis length of the connecting piece per limb depending on the depth and the angle α

Number of columns	Depth T [mm]	Proportional axis length X [mm]					
		α = 90° / 270°	α = 105° / 195°	α = 120° / 210°	α = 135° / 225°	α = 150° / 240°	α = 165° / 255°
2 columns	65	34	27	21	16	11	7
3 columns	105	49	37	27	18	12	6
4 columns	145	69	52	38	27	17	8
5 columns	185	89	67	50	35	22	11
6 columns	225	109	83	61	43	28	13



CURVED DESIGN

Dimensional drawings	Ordering code	Surcharge per radiator
<p>Inside radius</p> <p>Outside radius</p>	70	On request

W: wall spacing
 R: bending radius (inside radius / outside radius)
 T: depth
 L: length

Minimum bending radius R_{min}

depending on the depth (number of columns)

Number of columns	Depth T [mm]	R_{min} [mm]
2 columns	65	400
3 columns	105	650
4 columns	145	750
5 columns	185	900
6 columns	225	1000

ROOM DIVIDER INSTALLATION

Dimensional drawing	Ordering code	Surcharge per fixing axis
	RT	100.78

H: height

- General information
- Model Standard column radiators
- Model Sano radiators
- Model Cambiotherm
- Model Bench radiators
- Arbonia Individual
- Fixing and dimensional drawings
- Accessories
- Further information



Standard column radiator, Cambiotherm, and Sano radiator:

- Welded in the factory
- Standard height H: 150 mm fix or 150–210 mm variable for finished floors
- Minimum number of feet see table below
- **Requirement class 1 and 2:**
 - As a height of over 600 mm, a bracket ZB0257/ZB0258 is required in the upper section of the radiator (one bracket per foot)
- **Requirement class 3 (e.g. schools):**
 - One bracket ZB0257/ZB0258 is to be used (one bracket per foot)
- On customer request, different arrangement also possible
- In case of version with round pipe feet, the maximum possible extension range is 40 % of H without loss of stability
- The required foot height for installation on unfinished floor is 300 mm. Available on request.

Standard column radiator and Cambiotherm:

- Welded on at the factory (for 2 columns 1-part feet, for 3–6 columns 2-part feet), cannot be installed subsequently
- Height of the feet: 140 mm
- **Requirement class 1 and 2:**
 - As a height of over 600 mm, a bracket ZB0257 is required in the upper section of the radiator (one bracket per foot)
- **Requirement class 3 (e.g. schools):**
 - One bracket ZB0257 is to be used (one bracket per foot)
- Extension of the outer rounding of the element
- Not height-adjustable
- In addition to the FU standard feet, additional variants are available – design on request

FIXING WITH ROUND PIPE FEET

Dimensional drawings	Type of feet	Height foot [mm]	Ordering code 16	Surcharge per foot [EUR]
<p>2-6 columns</p>	<p>Fixed</p>	150	RF	110.26
	<p>Adjustable</p>	150–210	RV	147.66

H: Height of round pipe foot



FIXING WITH WELDED FEET

Dimensional drawings	Height foot [mm]	Ordering code 16	Surcharge per foot [EUR]
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>2 columns</p> <p>feet 1-part</p> </div> <div style="text-align: center;"> <p>3-6 columns</p> <p>feet 2-parts</p> </div> <div style="text-align: center;"> <p>Positions of the feet with side connections</p> </div> </div>	140	FU	68.89

H: height
L: length
T: depth

Minimum number of feet

depending on the version and its length in elements

Height	Length [el.]	2 columns	3 columns	4 columns	5 columns	6 columns
		feet [pc.]	feet [pc.]	feet [pc.]	feet [pc.]	feet [pc.]
>190-750	up to 25	2	2	2	2	2
	26-45	3	3	3	4	4
	46-65	4	4	4	5	5
	66-85	5	5	5	-	-
>900-2000	up to 25	2	2	2	3	3
	26-45	3	3	3	4	-
>2200-3000	up to 25	2	2	2	3	(up to 20) 3

Please request the exact position of the welded feet in case of floor built-ins in the installation area of the radiator.

Please note the composition of the floor and carefully select the appropriate fixing variants, including dowels and screws.

Attention: Fixing with welded feet!! Note restricted installation space in case of downward connections.

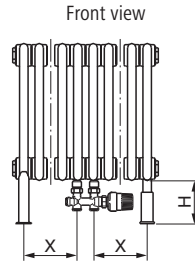


ARRANGEMENT AND NUMBER OF FEET

(depending on the number of elements)

Ordering code	Number of elements	
6	even	odd

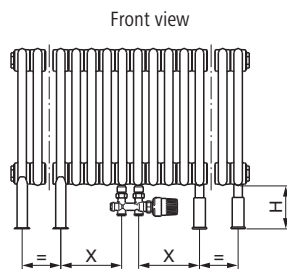
Connection without built-in valve:
2-pipe: 96 / 98



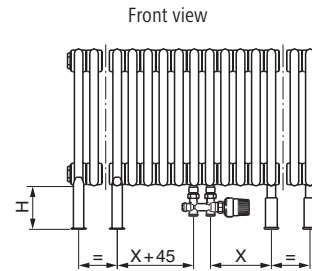
Dimension X: ≥ 3 free elements depending on the length of the radiator

Connection with built-in valve:
2-pipe: 96 / 98
(without figure)

Connection without built-in valve:
2-pipe: 96 / 98

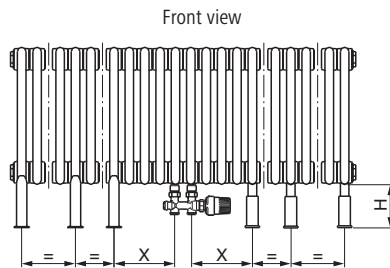


Connection with built-in valve:
2-pipe: 96 / 98
(without figure)

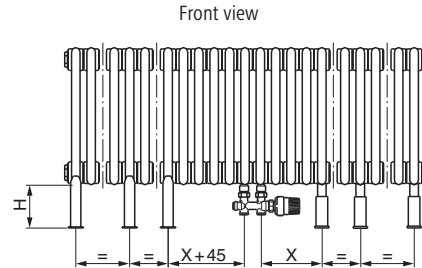


Dimension X: ≥ 3 free elements depending on the length of the radiator

Connection without built-in valve:
2-pipe: 96 / 98



Connection with built-in valve:
2-pipe: 96 / 98
(without figure)



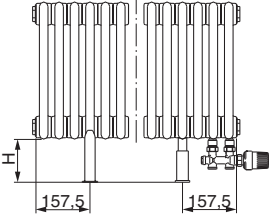
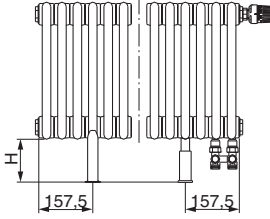
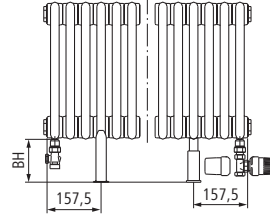
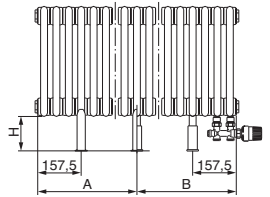
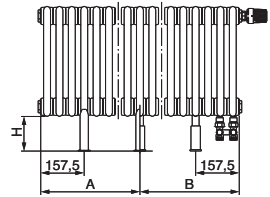
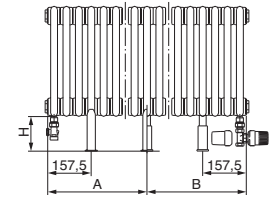
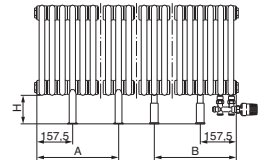
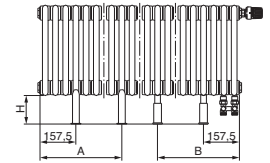
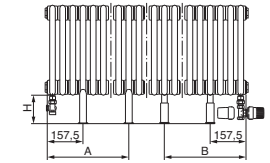
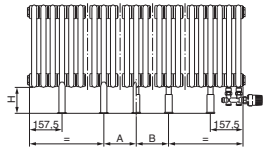
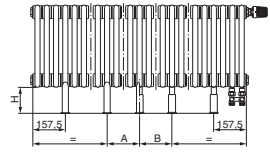
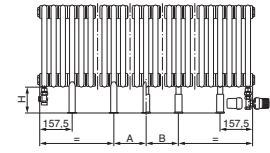
Dimension X: ≥ 3 free elements depending on the length of the radiator

Dimension X equal to distance feet to sleeve



POSITION OF FEET / FRONT VIEW

depending on the connections

	2-pipe connection from below		
	Connection without built-in valve: 69 / 89	Connection with built-in valve: 69 / 89	Connection without built-in valve: 68 / 86
With 2 feet	 <p>Image shows connection 89</p>	 <p>Image shows connection 89</p>	 <p>Image shows connection 86</p>
With 3 feet	 <p>Image shows connection 89</p> <p>With uneven number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 2 • Dimension B = number of elements / 2 	 <p>Image shows connection 89</p> <p>With even number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 2 - 22.5 mm • Dimension B = number of elements / 2 + 22.5 mm 	 <p>Image shows connection 86</p> <p>With even number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 2 - 22.5 mm • Dimension B = number of elements / 2 + 22.5 mm
With 4 feet	 <p>Image shows connection 89</p> <p>With uneven number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 3 • Dimension B = number of elements / 3 	 <p>Image shows connection 89</p> <p>With even number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 2 - 22.5 mm • Dimension B = number of elements / 2 + 22.5 mm 	 <p>Image shows connection 86</p> <p>With even number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 2 - 22.5 mm • Dimension B = number of elements / 2 + 22.5 mm
With 5 feet	 <p>Image shows connection 89</p> <p>With uneven number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = (number of elements / 6 x 45) ± 45 • Dimension B = (number of elements / 6 x 45) ± 45 	 <p>Image shows connection 89</p> <p>With even number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 6 - 22.5 mm • Dimension B = number of elements / 6 + 22.5 mm 	 <p>Image shows connection 86</p> <p>With even number of elements:</p> <ul style="list-style-type: none"> • H: height of feet • Dimension A = number of elements / 6 - 22.5 mm • Dimension B = number of elements / 6 + 22.5 mm

General information

Model Standard column radiators

Model Sano radiators

Model Cambiotherm

Model Bench radiators

Arbonia Individual

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COLUMN RADIATOR WITH BENCH BRACKET ZB0226

As a bench, this standard column radiator and the Cambiotherm combines in a harmonious manner the advantages of column radiators, such as cosy heat dissipation, easy cleaning, and accident prevention (compliant with statutory accident insurance), with a practical, useful function as a seat or as a surface for temporary or permanent storage.

Column radiators up to and including a height of 350 mm can be installed as bench using ZB0226 brackets.

FIXING

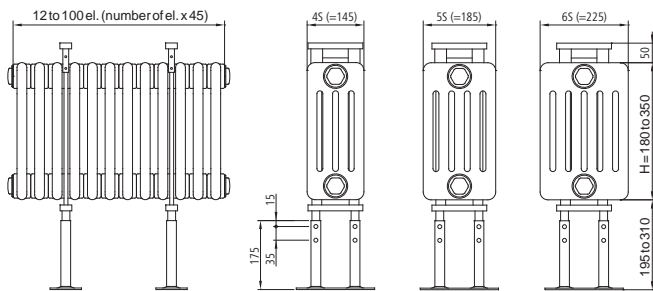
- The fixing complies with the requirement classes 1, 2, and 3 of the guideline VDI 6036.
- On the construction site, the floor building material has to be checked for sufficient loading capacity.

Range available

- 3 depths: 145–225 mm (4–6 columns)
- 4 radiator heights: 180–350 mm
- Height with bracket (adjustable, without bench): 425–710 mm
- Lengths: 540–4500 mm
- 2-pipe connections
- Brackets ZB0226 are not included in range available

The radiators are delivered as combined elements. Plugs and reductions with internal thread, fittings and seals are included in the scope of delivery.

Dimensional drawings



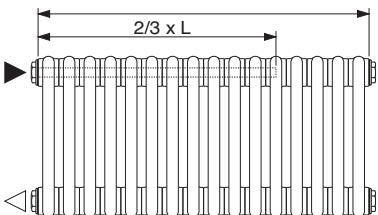
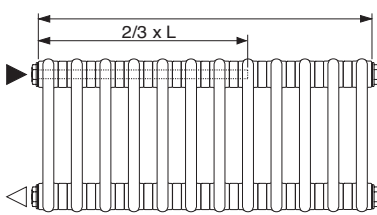
GL: element
H: height

Height [mm]	Number of brackets (AK 1 and 2)			Number of brackets (AK 3)		
	Length		Number of brackets [pc.]	Length		Number of brackets [pc.]
	from [el.]	to [el.]		from [el.]	to [el.]	
180–350	12	25	2	12	25	2
	26	45	3	26	45	4
	46	65	4	46	65	6
	66	100	5	66	85	7
				86	100	8

Weight of the bench support was not taken into account
Max. loading capacity of the bracket 500 kg (static).



AVAILABLE ON REQUEST

Description	Feature	Ordering code	Surcharge per radiator [EUR]																																								
Pressure version High-pressure version 16 bar (1600 kPa)	14	16	355.96																																								
Insert pipe Insert pipe installed at factory for 10 bar pressure version. Need for an insert pipe For column radiators <table border="1" style="margin-top: 10px;"> <thead> <tr> <th rowspan="2">Number of columns</th> <th colspan="2">Insert pipe required from length</th> </tr> <tr> <th>[el.]</th> <th>[mm]</th> </tr> </thead> <tbody> <tr><td>2 columns</td><td>85</td><td>3825</td></tr> <tr><td>3 columns</td><td>83</td><td>3735</td></tr> <tr><td>4 columns</td><td>80</td><td>3600</td></tr> <tr><td>5 columns</td><td>70</td><td>3150</td></tr> <tr><td>6 columns</td><td>60</td><td>2700</td></tr> </tbody> </table> Sano radiator <table border="1" style="margin-top: 10px;"> <thead> <tr> <th rowspan="2">Number of columns</th> <th colspan="2">Insert pipe required from length</th> </tr> <tr> <th>[el.]</th> <th>[mm]</th> </tr> </thead> <tbody> <tr><td>2 columns</td><td>60</td><td>3880</td></tr> <tr><td>3 columns</td><td>58</td><td>3750</td></tr> <tr><td>4 columns</td><td>56</td><td>3620</td></tr> <tr><td>5 columns</td><td>49</td><td>3165</td></tr> <tr><td>6 columns</td><td>42</td><td>2710</td></tr> </tbody> </table> <p style="margin-top: 10px;">From the lengths given in the table, an insert pipe is fitted at the factory on column radiators with connections on same end. The insert pipe is fitted at 2/3 of the length to ensure correct water circulation</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	Number of columns	Insert pipe required from length		[el.]	[mm]	2 columns	85	3825	3 columns	83	3735	4 columns	80	3600	5 columns	70	3150	6 columns	60	2700	Number of columns	Insert pipe required from length		[el.]	[mm]	2 columns	60	3880	3 columns	58	3750	4 columns	56	3620	5 columns	49	3165	6 columns	42	2710	-	-	-
Number of columns		Insert pipe required from length																																									
	[el.]	[mm]																																									
2 columns	85	3825																																									
3 columns	83	3735																																									
4 columns	80	3600																																									
5 columns	70	3150																																									
6 columns	60	2700																																									
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2 columns	60	3880																																									
3 columns	58	3750																																									
4 columns	56	3620																																									
5 columns	49	3165																																									
6 columns	42	2710																																									
Insert pipe on request	15	99	On request																																								
Individual elements For column radiators and Cambiotherm	20	99	On request																																								
Heights Height over 3000 mm <ul style="list-style-type: none"> • For column radiators 		On request	On request																																								
Special versions Special height	20	SBH	Next standard height + 25 %																																								
Version according to drawing	20	99	On request																																								

General information

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Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

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COUPLED COLUMN RADIATORS

- Radiators are delivered as single units
- Connections must be installed on site
- Recommended connection size between the radiators: G 3/4" or one size larger than flow/return

Connection system	Description	Sequence of coupled radiators (enter into "Special characteristics" column)			Ordering code [5]	Surcharge per radiator [EUR]
		First radiator 1	Centre radiator 2	End radiator 3		
Connection on same side	<ul style="list-style-type: none"> • Max. 3 radiators • Maximum length: <ul style="list-style-type: none"> – for heights 180–600 mm: $L_{max} = 12$ m – for heights 750–1000 mm: $L_{max} = 6.5$ m – for heights over 1200 mm: $L_{max} = 2.5$ m • Please enclose a drawing with your order 				75	103.40
Connection on alternating sides	<ul style="list-style-type: none"> • Length and number theoretically unlimited • Note transport and weight limitations • Please enclose a drawing with your order 				76	–
Connection on alternating sides, from below	<ul style="list-style-type: none"> • Length and number theoretically unlimited • Note transport and weight limitations • Please enclose a drawing with your order 				99	–



NIPPLED COLUMN RADIATORS

Description	Feature	Ordering code	Surcharge per radiator [EUR]
Installation ¹⁾			
Nippled on site	19	BG	–
Nippled in the factory	19	WG	On request

¹⁾ Column radiators in the high-pressure version cannot be coupled (delivery in one piece)

Fitting instructions

Instructions on fitting

For reasons of weight and transport, column radiators can only be shipped from the factory as a single piece up to a maximum length. If the maximum length is exceeded in one piece, the column radiators will be delivered in several blocks. These blocks must be nippled on site.

Assembling of column radiators

Column radiators are assembled from radiator elements. The hubs of the individual radiator elements and the nipples are in size G 1 1/4" right- or left-hand thread. Inside of the fitting two opposed cams are arranged for the proper fit of the coupling tool while assembling.

Careful attention to the following instructions is a prerequisite for a reliable sealing of the fitting connections:

- Place the radiator elements horizontally on a flat plane or two bars
- Thoroughly clean end surfaces of the elements from rust, paint, and dirt
- Use only the nipples and seals provided by Arbonia
- Screw nipples a half thread turn in both centres of a block; note right or left-hand thread; left-hand thread is marked with notches
- Place one sealing on each nipple
- Press next radiator element against it
- Check insert depth outside the radiator and mark it on the mandrel
- Insert the mandrel up to the nipple of the section point
- Tighten the radiator elements by alternating turns of the nipples with the mandrel. Irregular screwing-in leads to leaks. For tightening the nipples, only use a mandrel with a rotary pole with a length of 600–800 mm.

The tightening torque is 320–400 Nm.

Using a ring spanner with a length of 800 mm, this torque is achieved when tightening it forcefully (400–500 N at the wrench end).

Connections

Column radiators are closed with blanking plugs at the last elements and are joined to the pipe system by connecting plugs. Blanking and connecting plugs are delivered as required with right- or left-hand thread, the flow-connecting plug should generally have a right-hand thread.

Careful attention to the following instructions is a prerequisite for a reliable sealing of the blanking and connection plugs:

- Use only the blanking and connecting plugs and sealings provided by Arbonia.
 - Thoroughly clean the end surfaces of the radiators and sealing faces of the plugs from rust, paint, and dirt.
 - Check sealing surface and threads for flawless quality.
 - Use one sealing for each plug.
 - Screw in the plugs by hand; note right- or left-hand thread. Before applying the plug collar, adjust the sealing radially to make sure, that the complete cross-section is effected and the sealing is not distorted while final tightening the plug.
 - Protect finished plugs with spanner insert hexagon ZT0026 0001 and tighten with ring or open-end spanner WF46 of 600 mm. The tightening torque is at least 250–300 Nm.
- When a spanner of 600 mm length is used, this tightening torque is attained by tightening strongly (400–500 N at the spanner end). The use of pipe wrenches and similar tools is not allowed.

Note

In case of facilities probably operated with purified water, the plugs should be tightened up at the earliest two hours later because of the settlement of the sealing material.

Flow and return cannot be swapped in case of column radiators for on-site fitting with centred connection.

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SURFACE FINISHES

Description	Finish Ordering code 17	Colour Ordering code 18/0	Colour code Ordering code 18	Surcharge per radiator [EUR]
All Finish in white				
Traffic white RAL 9016	AF	RAL	9016	–
Primed	GRD	–	–	On request
Colour Finish in standard colour ¹⁾				
	CF	RAL colour	Colour code from colour chart	25 %
	CF	Sanitary colour ²⁾	–	
	CF	NCS colours ³⁾	Manufacturer's colour code	
	CF	NIC	Colour code from colour table	
Super Finish, finished in colour of choice ¹⁾⁴⁾ (small volume) ⁵⁾				
	SF	Manufacturer's colour	Manufacturer's colour code	+ 25 % + Surcharge for small volumes On request ⁵⁾
	SF	Arbonia special colour ²⁾	–	
Clear lacquer				
	TF	–	–	25 %
Textured paint after priming				
Traffic white RAL 9016	SL	RAL	9016	25 %
In colour of choice (manufacturer's colour) ¹⁾⁴⁾	KL	Manufacturer's colour	Manufacturer's colour code	On request
In colour of choice (Arbonia special colour) ¹⁾⁴⁾	KL	Arbonia special colour ²⁾	–	
Anti-corrosion coating				
Traffic white RAL 9016	WF	RAL	9016	+40 %
Finished in standard colour	BF	RAL colour	Colour code from colour chart	60 %
	BF	Sanitary colour ²⁾	–	
	BF	NCS colours ³⁾	Manufacturer's colour code	
	BF	NIC	Colour code from colour table	
Finished in colour of choice (small volume) ⁵⁾	FF	Manufacturer's colour	Manufacturer's colour code	+ 60 % + Surcharge for small volumes On request ⁵⁾
	FF	Arbonia special colour ²⁾	–	
Hot-dip galvanised, outside, for wet areas				
With textured paint in traffic white RAL 9016	ZL	RAL	9016	On request
With textured paint in colour of choice (manufacturer's colour) ¹⁾⁴⁾	ZK	Manufacturer's colour	Manufacturer's colour code	
With textured paint in colour of choice (sanitary colour) ¹⁾⁴⁾	ZK	Sanitary colour ²⁾	–	
With textured paint in colour of choice (Arbonia special colour) ¹⁾⁴⁾	ZK	Arbonia special colour ²⁾	–	

¹⁾ For information on ordering, see ordering process²⁾ For information on ordering, see ordering process and colour chart³⁾ Selected NCS colours as per colour table⁴⁾ Not all colours possible⁵⁾ Definition of surcharge according to booklet "General Information – Colour fashion of the Arbonia radiators"

ARBONIA COLUMN RADIATORS: FIXING AND DIMENSIONAL DRAWINGS







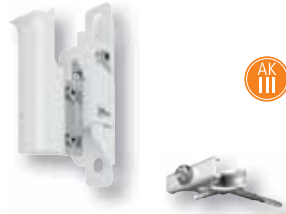



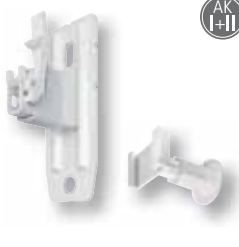


In the following section,
you will find:

- Possible combinations –
fixings according to VDI 6036
- Without suspension lugs
- With suspension lugs



POSSIBLE COMBINATIONS – FIXINGS ACCORDING TO VDI 6036



<p>Quick mounting bracket</p>  <p>AK I+II AK III</p>	<p>Wall bracket for column radiator</p>  <p>AK I+II AK III</p>	<p>Clamping bracket, fixed spacer</p>  <p>AK I+II</p>	<p>Clamping bracket, variable spacer</p>  <p>AK I+II</p>
<p>Clamping bracket, fixed holder</p>  <p>AK III</p>	<p>Clamping bracket, variable holder</p>  <p>AK III</p>	<p>Wall bracket, short with clamp holder and spacer</p>  <p>AK I+II</p>	<p>Wall bracket, variable with clamp holder and spacer</p>  <p>AK I+II</p>
<p>Wall bracket, short with clamp holder and holder</p>  <p>AK III</p>	<p>Wall bracket, variable with clamp holder and holder</p>  <p>AK III</p>	<p>Built into wall bracket with dehinging safety device with clamp holder/spacer</p>  <p>AK I+II</p>	<p>Suspension lugs wall bracket, short spacer</p>  <p>AK I+II</p>
<p>Suspension lugs wall bracket, variable spacer</p>  <p>AK I+II</p>	<p>Suspension lugs wall bracket, short with shift restraint wall bracket, short</p>  <p>AK III</p>	<p>Suspension lugs wall bracket, variable with shift restraint wall bracket, variable</p>  <p>AK I+II AK III</p>	<p>Soil stand bracket with carrier set</p>  <p>AK I+II AK III</p>
<p>Lifting bracket with holder</p>  <p>AK I+II AK III</p>			

AK I+II Requirement classes I and II
AK III Requirement class III

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FIXING WITH BUILT-INTO-WALL BRACKETS AND SPACER

Minimum number of fixing brackets and spacers depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2.

Special features:



- For standard column radiators and Cambiotherm
- The number of fixing brackets must not be less than the minimum.
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Please note the composition of the wall and carefully choose the appropriate fixing versions, including dowels and screws. Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

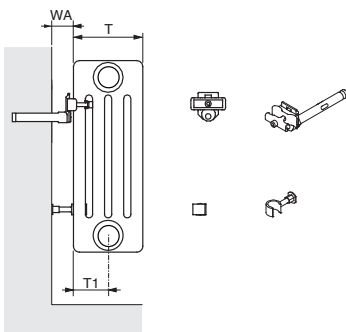


Fig. ZB0278

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	< 60
3 columns	105	52.5	
4 columns	145	72.5	
5 columns	185	92.5	
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items			
		Built-into-wall bracket ZB0278	Clamp holder ZB0281	Safety device ZB0279	Spacer ZB0280 0001 ZB0280 0002
2 columns					
300–2200	6–34 *	2 x	2 x	2 x	2 x
	35–50	3 x	3 x	3 x	3 x
	51–60	4 x	4 x	4 x	4 x
>2200–3000	6–30 *	2 x	2 x	2 x	2 x
3 & 4 columns					
300–350	6–22	2 x	2 x	2 x	2 x
	23–38	3 x	3 x	3 x	3 x
	39–52	4 x	4 x	4 x	4 x
	53–60	5 x	5 x	5 x	5 x
>350–900	6–28 *	2 x	2 x	2 x	2 x
	29–52	3 x	3 x	3 x	3 x
	53–60	4 x	4 x	4 x	4 x
>900–2200	6–14	2 x	2 x	2 x	2 x
	15–22	3 x	3 x	3 x	3 x
	23–32	4 x	4 x	4 x	4 x
	33–40	5 x	5 x	5 x	5 x
	41–48	6 x	6 x	6 x	6 x
	49–58	7 x	7 x	7 x	7 x
	59–60	8 x	8 x	8 x	8 x
	>2200–3000	6–14	2 x	2 x	2 x
15–22	3 x	3 x	3 x	3 x	
23–32	4 x	4 x	4 x	4 x	
5 & 6 columns					
300–350	6–18	3 x	3 x	3 x	3 x
	19–24	4 x	4 x	4 x	4 x
	25–30	5 x	5 x	5 x	5 x
	31–36	6 x	6 x	6 x	6 x
	37–42	7 x	7 x	7 x	7 x
	43–50	8 x	8 x	8 x	8 x
>350–900	6–10	2 x	2 x	2 x	2 x
	11–22	3 x	3 x	3 x	3 x
	23–30	4 x	4 x	4 x	4 x
	31–36	5 x	5 x	5 x	5 x
	37–44	6 x	6 x	6 x	6 x
	45–52	7 x	7 x	7 x	7 x
>900–1500	53–60	8 x	8 x	8 x	8 x
	6–12	2 x	2 x	2 x	2 x
	13–20	3 x	3 x	3 x	3 x
	21–26	4 x	4 x	4 x	4 x
	27–34	5 x	5 x	5 x	5 x
	35–40	6 x	6 x	6 x	6 x
>1500–3000	41–48	7 x	7 x	7 x	7 x
	49–54	8 x	8 x	8 x	8 x
	6–8	2 x	2 x	2 x	2 x
	9–12	3 x	3 x	3 x	3 x
	13–16	4 x	4 x	4 x	4 x
	17–22	5 x	5 x	5 x	5 x
>1500–3000	23–26	6 x	6 x	6 x	6 x
	27–20	7 x	7 x	7 x	7 x

* To avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.



BUILT-INTO-WALL BRACKETS

Description Product code	Image	Feature	Dimensions Order code [4]	Surface/ Finish Order code [17]	Product Model Order code [3]	Price [EUR]
Built-into-wall bracket ZB0278 0005– ZB0278 0008		<ul style="list-style-type: none"> Expansion plug with double wedge, parallel spread, Ø 18 mm Height adjustable. Height adjustment range = 9 mm 	L = 95 mm	–	ZB0278 0005	3.48
			L = 130 mm	–	ZB0278 0006	3.48
			L = 160 mm	–	ZB0278 0007	3.48
			L = 200 mm	–	ZB0278 0008	3.48
Safety clip ZB0279 0002		<ul style="list-style-type: none"> For built-into-wall bracket Ø 18 mm ZB0278 Material: <ul style="list-style-type: none"> White plastic 		AF	ZB0279 0002	0.75
Clamp holder ZB0281		<ul style="list-style-type: none"> Clamp holder for wall and built-into-wall bracket, for screwing on column radiators WA = WA wall bracket + 10 mm Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0281 0001	5.15
				CF	ZB0281 ¹⁾	6.44
				SF	ZB0281 ¹⁾	6.44
Complete spacer ZB0280 0001– ZB0280 0002		<ul style="list-style-type: none"> Infinitely adjustable depth Material/surface: <ul style="list-style-type: none"> White plastic 	WA = 25–60 mm	–	ZB0280 0001	2.39
		<ul style="list-style-type: none"> Infinitely adjustable depth Material/surface: <ul style="list-style-type: none"> Grey plastic 	WA = 25–60 mm	–	ZB0280 0002	2.39
Spacer extension ZB0294 0001		<ul style="list-style-type: none"> For spacer ZB0280 Comprising: <ul style="list-style-type: none"> 2 extension pieces Material: <ul style="list-style-type: none"> Aluminium 	L = 35 mm	–	ZB0294 0001	6.76
Bracket ZB0257		<ul style="list-style-type: none"> For standard column radiators Infinitely adjustable depth Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62
				CF	ZB0257 ¹⁾	8.28
				SF	ZB0257 ¹⁾	8.28
			L = 160 mm	AF	ZB0257 0002	6.62
				CF	ZB0257 ¹⁾	8.28
				SF	ZB0257 ¹⁾	8.28

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH BUILT-INTO-WALL BRACKETS AND SPACER

Minimum number of fixing brackets and spacers depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2.

Special features:



- For Sano radiators
- The number of fixing brackets must not be less than the minimum
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Determination of the number of fixing points tested on a wall made from the currently customary vertically perforated bricks and gypsum plaster according to the recommended connection situations of VDI 6036, Appendix D. For the definition of VDI 6036, Appendix D, please refer to "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.
- **Note:**
 - The built-into-wall bracket can only be used in conjunction with the suitable clamp holder.

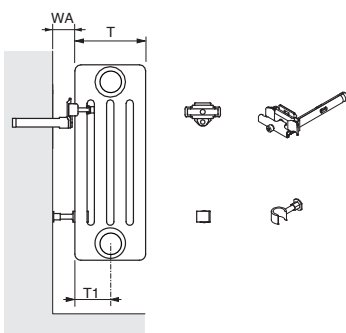


Fig. ZB0278

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	< 60
3 columns	105	52.5	
4 columns	145	72.5	
5 columns	185	92.5	
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items			
		Built-into-wall bracket ZB0278	Clamp holder ZB0305	Safety device ZB0279	Spacer ZB0280 0001 ZB0280 0002
2 columns					
300–1100	6–32 *	2 x	2 x	2 x	2 x
	33–48	3 x	3 x	3 x	3 x
	49–60	4 x	4 x	4 x	4 x
>1100–2200	6–24	2 x	2 x	2 x	2 x
	25–38	3 x	3 x	3 x	3 x
	39–50	4 x	4 x	4 x	4 x
>2200–3000	51–60	5 x	5 x	5 x	5 x
	6–24 *	2 x	2 x	2 x	2 x
	25–30	3 x	3 x	3 x	3 x
3 & 4 columns					
300–450	6–22	2 x	2 x	2 x	2 x
	21–40	3 x	3 x	3 x	3 x
	41–58	4 x	4 x	4 x	4 x
	59–60	5 x	5 x	5 x	5 x
>450–1100	6–24	2 x	2 x	2 x	2 x
	25–40	3 x	3 x	3 x	3 x
	41–56	4 x	4 x	4 x	4 x
	57–60	5 x	5 x	5 x	5 x
	6–12	2 x	2 x	2 x	2 x
>1100–2200	13–20	3 x	3 x	3 x	3 x
	21–28	4 x	4 x	4 x	4 x
	29–38	5 x	5 x	5 x	5 x
	39–44	6 x	6 x	6 x	6 x
	45–52	7 x	7 x	7 x	7 x
	53–60	8 x	8 x	8 x	8 x
>2200–3000	6–12	2 x	2 x	2 x	2 x
	13–20	3 x	3 x	3 x	3 x
	21–28	4 x	4 x	4 x	4 x
	29–30	5 x	5 x	5 x	5 x
5 & 6 columns					
300–450	6–14	3 x	3 x	3 x	3 x
	15–20	4 x	4 x	4 x	4 x
	21–26	5 x	5 x	5 x	5 x
	27–30	6 x	6 x	6 x	6 x
	31–36	7 x	7 x	7 x	7 x
	37–40	8 x	8 x	8 x	8 x
	41–46	9 x	9 x	9 x	9 x
	47–52	10 x	10 x	10 x	10 x
	53–56	11 x	11 x	11 x	11 x
	57–60	12 x	12 x	12 x	12 x
>450–1500	6–8	2 x	2 x	2 x	2 x
	9–18	3 x	3 x	3 x	3 x
	19–26	4 x	4 x	4 x	4 x
	27–34	5 x	5 x	5 x	5 x
	35–40	6 x	6 x	6 x	6 x
	41–46	7 x	7 x	7 x	7 x
	47–52	8 x	8 x	8 x	8 x
	53–60	9 x	9 x	9 x	9 x
	6–8	2 x	2 x	2 x	2 x
	9–12	3 x	3 x	3 x	3 x
>1500–3000	13–16	4 x	4 x	4 x	4 x
	17–20	5 x	5 x	5 x	5 x
	21–24	6 x	6 x	6 x	6 x
	25–28	7 x	7 x	7 x	7 x
	29–30	8 x	8 x	8 x	8 x



BUILT-INTO-WALL BRACKET

Description Product code	Feature	Dimensions Order code [4]	Surface/ Finish Order code [17]	Product Model Order code [3]	Price [EUR]
Built-into-wall bracket ZB0278 0005– ZB0278 0008	<ul style="list-style-type: none"> Expansion plug with double wedge, parallel spread, Ø 18 mm Height adjustable. Height adjustment range = 9 mm 	L = 95 mm	ZN	ZB0278 0005	3.48
		L = 130 mm	ZN	ZB0278 0006	3.48
		L = 160 mm	ZN	ZB0278 0007	3.48
		L = 200 mm	ZN	ZB0278 0008	3.48
Safety clip ZB0279 0002	<ul style="list-style-type: none"> For built-into-wall bracket Ø 18 mm ZB0278 Material: <ul style="list-style-type: none"> White plastic 		AF	ZB0279 0002	0.75
Clamp holder ZB0305	<ul style="list-style-type: none"> Clamp holder for wall and built-into-wall bracket, for screwing on Sano radiators Not suitable for wall bracket ZB0005 WA = WA wall bracket + 10 mm Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	80 x 25 mm	AF	ZB0305 0001	6.96
			CF	ZB0305 ¹⁾	8.70
			SF	ZB0305 ¹⁾	8.70
Complete spacer ZB0280 0001– ZB0280 0002	<ul style="list-style-type: none"> Infinitely adjustable depth Material/surface: <ul style="list-style-type: none"> White plastic 	WA = 25–60 mm	-	ZB0280 0001	2.39
	<ul style="list-style-type: none"> Infinitely adjustable depth Material/surface: <ul style="list-style-type: none"> Grey plastic 	WA = 25–60 mm	-	ZB0280 0002	2.39
Spacer extension ZB0294 0001	<ul style="list-style-type: none"> For spacer ZB0280 Comprising: <ul style="list-style-type: none"> 2 extension pieces Material: <ul style="list-style-type: none"> Aluminium 	L = 35 mm	-	ZB0294 0001	6.76

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

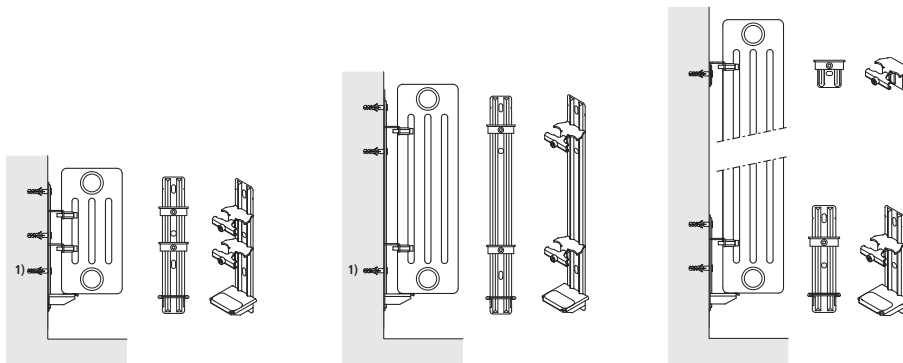
Accessories

Further
information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH QUICK MOUNTING BRACKET



Quick mounting bracket set, short
ZB0233

Quick mounting bracket set, long
ZB0235

Quick mounting bracket set, 2 parts
ZB0237

Quick mounting bracket, short
ZB0234

Quick mounting bracket, long
ZB0236

Quick mounting bracket, 2 parts
ZB0238

Special features:

- For standard column radiators
- The number of fixing brackets must not be less than the minimum
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Safety bolt (1) optional, not included in the scope of delivery. If required, the screw and dowel set ZK0071 0001 can be ordered separately.

Minimum number of quick mounting brackets depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2.

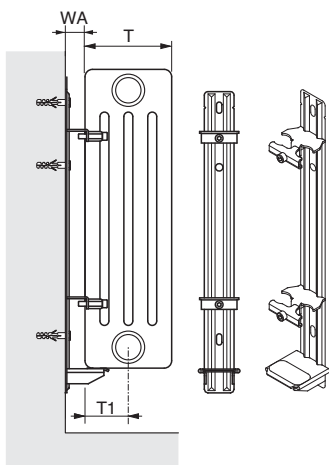


Fig. ZB0235

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	30
3 columns	105	52.5	
4 columns	145	72.5	
5 columns	185	92.5	
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items		
		Quick mounting bracket short ZB0234	Quick mounting bracket long ZB0236	Quick mounting bracket 2-part ZB0238
2–4 columns				
300–495	6–34 *	2 x		
	35–50	3 x		
	51–60	4 x		
>495–695	6–34 *		2 x	
	35–50		3 x	
	51–60		4 x	
>695–2200	6–34 *			2 x
	35–50			3 x
	51–60			4 x
>2200–3000	6–30 *			2 x
5–6 columns				
300–450	6–16	2 x		
	17–36	3 x		
	37–48	4 x		
	49–60	5 x		
>450–495	6–30 *	2 x		
	31–46	3 x		
	47–60	4 x		
>495–695	6–30 *		2 x	
	31–46		3 x	
	47–60		4 x	
>695–1500	6–30 *			2 x
	31–46			3 x
	47–60			4 x
>1500–3000	6–22			2 x
	23–30			3 x

* To avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.

Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see “General information – VDI 6036”.

Wall-building material needs to be tested on site for sufficient loading capacity.

Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Quick mounting bracket set short ZB0233	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 2 brackets Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF 	Height of the radiator 300–495 mm	AF	ZB0233 0001	25.59
Quick mounting bracket short ZB0234	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 1 bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 300–495 mm	AF	ZB0234 0001	12.81
			CF	ZB0234 ¹⁾	16.01
			SF	ZB0234 ¹⁾	16.01
Quick mounting bracket set long ZB0235	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 2 brackets Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF 	Height of the radiator 500–695 mm	AF	ZB0235 0001	25.59
Quick mounting bracket long ZB0236	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 1 bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 500–695 mm	AF	ZB0236 0001	12.81
			CF	ZB0236 ¹⁾	16.01
			SF	ZB0236 ¹⁾	16.01
Quick mounting bracket set 2-part ZB0237	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 2 brackets Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF 	Height of the radiator 700–3000 mm	AF	ZB0237 0001	25.59
Quick mounting bracket 2-part ZB0238	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 1 bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 700–3000 mm	AF	ZB0238 0001	12.81
			CF	ZB0238 ¹⁾	16.01
			SF	ZB0238 ¹⁾	16.01
Back holder, fixed ZB0239	<ul style="list-style-type: none"> WA = 30 mm Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 700–3000 mm	AF	ZB0239 0001	10.53
			CF	ZB0239 ¹⁾	13.16
			SF	ZB0239 ¹⁾	13.16
Screw and dowel set ZK0071 0001	<ul style="list-style-type: none"> Comprising: <ul style="list-style-type: none"> 12 screws (width across flats 13 mm, length 90 mm) 12 dowels (drill hole Ø 10 mm, length 80 mm) 12 washers Surface: <ul style="list-style-type: none"> Galvanised ZN 	–	–	ZK0071 0001	4.45
Bracket ZB0257	<ul style="list-style-type: none"> For standard column radiators Infinitely adjustable depth Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	L = 130 mm	AF	ZB0257 0001	6.62
			CF	ZB0257 ¹⁾	8.28
		L = 160 mm	SF	ZB0257 ¹⁾	8.28
			AF	ZB0257 0002	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)

When delivery unit is not specified, then delivery unit will be 1 pc.

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information



FIXING WITH QUICK MOUNTING BRACKET

Minimum number of quick mounting brackets depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools).

Special features:

- For standard column radiators
- The number of fixing brackets must not be less than the minimum
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system. Safety bolt (1) optional, not included in the scope of delivery. If required, the screw and dowel set ZK0071 0001 can be ordered separately.

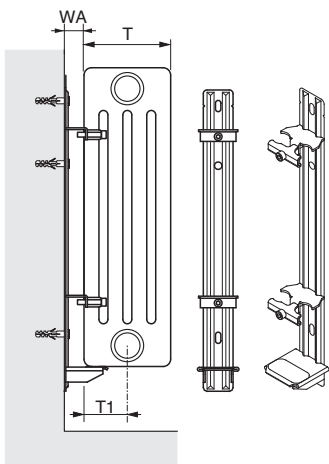


Fig. ZB0235

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	30
3 columns	105	52.5	
4 columns	145	72.5	
5 columns	185	92.5	
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items		
		Quick mounting bracket short ZB0234	Quick mounting bracket long ZB0236	Quick mounting bracket 2-part ZB0238
2–4 columns				
300–450	6–18	2 x		
	19–28	3 x		
	29–38	4 x		
	39–48	5 x		
	49–56	6 x		
	57–60	7 x		
>450–495	6–26 *	2 x		
	27–42	3 x		
	43–52	4 x		
>495–695	53–60	5 x		
	6–26 *		2 x	
	27–42		3 x	
	43–52		4 x	
>695–2200	53–60		5 x	
	6–26 *			2 x
	27–42			3 x
>2200–3000	43–52			4 x
	53–60			5 x
	6–26 *			2 x
	27–30			3 x
	5–6 columns			
300–450	6–14	2 x		
	15–22	3 x		
	23–30	4 x		
	31–36	5 x		
	37–44	6 x		
	45–52	7 x		
>450–495	53–60	8 x		
	6–24	2 x		
	25–42	3 x		
>495–695	43–50	4 x		
	51–60	5 x		
	6–24		2 x	
>695–1500	25–42		3 x	
	43–50		4 x	
	51–60		5 x	
>1500–3000	6–24			2 x
	25–42			3 x
	43–50			4 x
	51–60			5 x
	6–20			2 x
	21–30			3 x

* To avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.

Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".

Wall-building material needs to be tested on site for sufficient loading capacity.

Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price [EUR]
		[4]	[17]	[3]	
Quick mounting bracket set short ZB0233	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 2 brackets Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF 	Height of the radiator 300–495 mm	AF	ZB0233 0001	25.59
Quick mounting bracket short ZB0234	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 1 bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 300–495 mm	AF	ZB0234 0001	12.81
			CF	ZB0234 ¹⁾	16.01
			SF	ZB0234 ¹⁾	16.01
Quick mounting bracket set long ZB0235	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 2 brackets Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF 	Height of the radiator 500–695 mm	AF	ZB0235 0001	25.59
Quick mounting bracket long ZB0236	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 1 bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 500–695 mm	AF	ZB0236 0001	12.81
			CF	ZB0236 ¹⁾	16.01
			SF	ZB0236 ¹⁾	16.01
Quick mounting bracket set 2-part ZB0237	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 2 brackets Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF 	Height of the radiator 700–3000 mm	AF	ZB0237 0001	25.59
Quick mounting bracket 2-part ZB0238	<ul style="list-style-type: none"> For standard column radiators WA = 30 mm Comprising: <ul style="list-style-type: none"> 1 bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 700–3000 mm	AF	ZB0238 0001	12.81
			CF	ZB0238 ¹⁾	16.01
			SF	ZB0238 ¹⁾	16.01
Back holder, fixed ZB0239	<ul style="list-style-type: none"> WA = 30 mm Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	Height of the radiator 700–3000 mm	AF	ZB0239 0001	10.53
			CF	ZB0239 ¹⁾	13.16
			SF	ZB0239 ¹⁾	13.16
Screw and dowel set ZK0071 0001	<ul style="list-style-type: none"> Comprising: <ul style="list-style-type: none"> 12 screws (width across flats 13 mm, length 90 mm) 12 dowels (drill hole Ø 10 mm, length 80 mm) 12 washers Surface: <ul style="list-style-type: none"> Galvanised ZN 	–	–	ZK0071 0001	4.45
Bracket ZB0257	<ul style="list-style-type: none"> For standard column radiators Infinitely adjustable depth Surface: <ul style="list-style-type: none"> Finished in AF , CF , SF 	L = 130 mm	AF	ZB0257 0001	6.62
			CF	ZB0257 ¹⁾	8.28
		L = 160 mm	SF	ZB0257 ¹⁾	8.28
			AF	ZB0257 0002	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)

When delivery unit is not specified, then delivery unit will be 1 pc.

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information



FIXING WITH WALL BRACKET

Minimum number of brackets depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2.

Special features:



- For standard column radiators and Sano radiators
- The number of fixing brackets must not be less than the minimum
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- For Sano radiators, the holder ZB0258 needs to be ordered separately
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

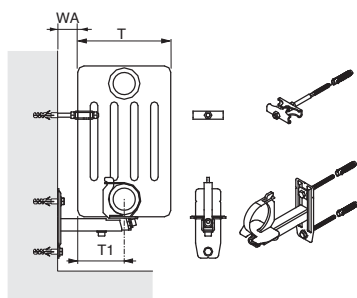


Fig. ZB0245

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	30-40
3 columns	105	52.5	
4 columns	145	72.5	
5 columns	185	92.5	
6 columns	225	112.5	




Height [mm]	Length Elements	Item and number of items			
		Suitable wall bracket set	Holder for standard column radiators ZB0257	Holder for Sano radiators ZB0258	
2 columns					
190-260** >300-550	6-28 *	1x ZB0247	Included in scope of delivery of the wall bracket	The holder ZB0258 must be ordered separately	
	29-42	3x ZB0244			
	43-52	2x ZB0247			
>550-1500	53-60	5x ZB0244			
	6-24	1x ZB0247			
	25-38	3x ZB0244			
>1500-3000	39-48	2x ZB0247			
	49-60	5x ZB0244			
	6-18	1x ZB0247			
>1500-3000	19-32	3x ZB0244			
	33-42	2x ZB0247			
	43-54	5x ZB0244			
>1500-3000	55-60	3x ZB0247			
	3 & 4 columns				
	190-260** >300-550	6-28 *	1x ZB0248	Included in scope of delivery of the wall bracket	The holder ZB0258 must be ordered separately
29-42		3x ZB0245			
43-52		2x ZB0248			
>550-1500	53-60	5x ZB0245			
	6-20	1x ZB0248			
	21-36	3x ZB0245			
>1500-2200	37-46	2x ZB0248			
	47-60	5x ZB0245			
	6-14	1x ZB0248			
>1500-2200	15-22	3x ZB0245			
	23-34	2x ZB0248			
	35-42	5x ZB0245			
>2200-3000	43-52	3x ZB0248			
	6-14	1x ZB0248			
	15-22	3x ZB0245			
>2200-3000	23-30	2x ZB0248			
	5 & 6 columns				
	190-260** >300-550	6-16	3x ZB0246	Included in scope of delivery of the wall bracket	The holder ZB0258 must be ordered separately
17-20		2x ZB0249			
21-26		5x ZB0246			
>300-550	27-32	3x ZB0249			
	6-10	1x ZB0249			
	11-26	3x ZB0246			
>300-550	27-36	2x ZB0249			
	37-46	5x ZB0246			
	47-54	3x ZB0249			
>550-1000	6- 8	1x ZB0249			
	9-22	3x ZB0246			
	23-30	2x ZB0249			
>550-1000	31-38	5x ZB0246			
	39-46	3x ZB0249			
	6- 8	1x ZB0249			
>1000-1500	9-14	3x ZB0246			
	15-20	2x ZB0249			
	21-26	5x ZB0246			
>1000-1500	27-30	3x ZB0249			

* To avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.

** Installation without sound insulation pad and brackets included in scope of delivery



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price	
		[4]	[17]	[3]	[EUR]	
Wall bracket ZB0244– ZB0246 	<ul style="list-style-type: none"> • For column radiators with 2 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – 1 holder (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0244 0001	20.58	
		30–40 mm	CF	ZB0244 ¹⁾	25.73	
			SF	ZB0244 ¹⁾	25.73	
	<ul style="list-style-type: none"> • For column radiators with 3 to 4 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – 1 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0245 0001	20.58	
		30–40 mm	CF	ZB0245 ¹⁾	25.73	
			SF	ZB0245 ¹⁾	25.73	
	<ul style="list-style-type: none"> • For column radiators with 5 to 6 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – 1 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0246 0001	20.58	
		30–40 mm	CF	ZB0246 ¹⁾	25.73	
			SF	ZB0246 ¹⁾	25.73	
	Wall bracket set ZB0247– ZB0249 	<ul style="list-style-type: none"> • For column radiators with 2 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 2 wall brackets – 2 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0247 0001	39.72
			30–40 mm	CF	ZB0247 ¹⁾	49.65
				SF	ZB0247 ¹⁾	49.65
<ul style="list-style-type: none"> • For column radiators with 3 to 4 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 2 wall brackets – 2 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 		WA =	AF	ZB0248 0001	39.72	
		30–40 mm	CF	ZB0248 ¹⁾	49.65	
			SF	ZB0248 ¹⁾	49.65	
<ul style="list-style-type: none"> • For column radiators with 5 to 6 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 2 wall brackets – 2 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 		WA =	AF	ZB0249 0001	39.72	
		30–40 mm	CF	ZB0249 ¹⁾	49.65	
			SF	ZB0249 ¹⁾	49.65	
Bracket ZB0257, ZB0258 		<ul style="list-style-type: none"> • For standard column radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62
				CF	ZB0257 ¹⁾	8.28
				SF	ZB0257 ¹⁾	8.28
	L = 160 mm		AF	ZB0257 0002	6.62	
			CF	ZB0257 ¹⁾	8.28	
			SF	ZB0257 ¹⁾	8.28	
	<ul style="list-style-type: none"> • For Sano radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0258 0001	6.62	
			CF	ZB0258 ¹⁾	8.28	
			SF	ZB0258 ¹⁾	8.28	
		L = 160 mm	AF	ZB0258 0002	6.62	
			CF	ZB0258 ¹⁾	8.28	
			SF	ZB0258 ¹⁾	8.28	

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

Accessories

Further
information



FIXING WITH WALL BRACKET

Minimum number of brackets depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools).

Special features:



- For standard column radiator and Sano radiators
- The number of fixing brackets must not be less than the minimum
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- For Sano radiators, the holder ZB0258 needs to be ordered separately
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

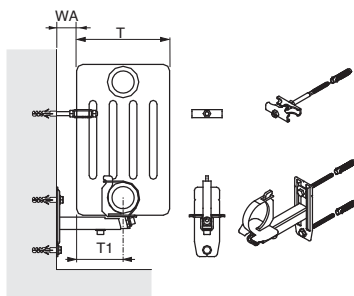


Fig. ZB0245

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	30–40
3 columns	105	52.5	
4 columns	145	72.5	
5 columns	185	92.5	
6 columns	225	112.5	




Height [mm]	Length Elements	Item and number of items		
		Suitable wall bracket set	Holder for standard column radiators ZB0257	Holder for Sano radiators ZB0258
2 columns				
190–260**	6–26 *	1x ZB0247	Included in scope of delivery of the wall bracket	The holder ZB0258 must be ordered separately
	27–40	3x ZB0244		
	41–52	2x ZB0247		
	53–60	5x ZB0244		
>300–550	6–16	1x ZB0247		
	17–24	3x ZB0244		
	25–32	2x ZB0247		
	33–40	5x ZB0244		
	41–50	3x ZB0247		
	51–58	7x ZB0244		
>550–2200	59–60	4x ZB0247		
	6–18	1x ZB0247		
	19–26	3x ZB0244		
	27–30	2x ZB0247		
3 & 4 columns				
190–260**	6–16 *	1x ZB0248	Included in scope of delivery of the wall bracket	The holder ZB0258 must be ordered separately
	27–24	3x ZB0245		
	25–32	2x ZB0248		
	33–42	5x ZB0245		
	43–50	3x ZB0248		
	51–58	7x ZB0245		
>300–550	59–60	4x ZB0248		
	6–20	1x ZB0248		
	21–32	3x ZB0245		
	33–42	2x ZB0248		
	43–54	5x ZB0245		
	55–60	3x ZB0248		
>550–2200	6–16	1x ZB0248		
	17–24	3x ZB0245		
	25–32	2x ZB0248		
	33–40	5x ZB0245		
	41–48	3x ZB0248		
	49–56	7x ZB0245		
	57–60	4x ZB0248		
	6–14	1x ZB0248		
>2200–2200	15–22	3x ZB0245		
	23–30	2x ZB0248		
5 & 6 columns				
180–260**	6–10	1x ZB0249	Included in scope of delivery of the wall bracket	The holder ZB0258 must be ordered separately
	11–16	3x ZB0246		
	17–22	2x ZB0249		
	23–28	5x ZB0246		
	29–34	3x ZB0249		
	35–40	7x ZB0246		
	41–46	4x ZB0249		
	6–14	1x ZB0249		
	15–20	3x ZB0246		
	21–26	2x ZB0249		
>300–550	27–34	5x ZB0246		
	35–40	3x ZB0249		
	41–46	7x ZB0246		
	47–54	4x ZB0249		
	6–12	1x ZB0249		
	13–16	3x ZB0246		
>550–1500	17–22	2x ZB0249		
	23–26	5x ZB0246		
	27–32	3x ZB0249		
	33–38	7x ZB0246		
	39–44	4x ZB0249		

* To avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.

** Installation without sound insulation pad and brackets included in scope of delivery



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price	
		[4]	[17]	[3]	[EUR]	
Wall bracket ZB0244– ZB0246 	<ul style="list-style-type: none"> • For column radiators with 2 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – 1 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0244 0001	20.58	
		30–40 mm	CF	ZB0244 ¹⁾	25.73	
			SF	ZB0244 ¹⁾	25.73	
	<ul style="list-style-type: none"> • For column radiators with 3 to 4 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – 1 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0245 0001	20.58	
		30–40 mm	CF	ZB0245 ¹⁾	25.73	
			SF	ZB0245 ¹⁾	25.73	
	<ul style="list-style-type: none"> • For column radiators with 5 to 6 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – 1 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0246 0001	20.58	
		30–40 mm	CF	ZB0246 ¹⁾	25.73	
			SF	ZB0246 ¹⁾	25.73	
Wall bracket set ZB0247– ZB0249 	<ul style="list-style-type: none"> • For column radiators with 2 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 2 wall brackets – 2 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0247 0001	39.72	
		30–40 mm	CF	ZB0247 ¹⁾	49.65	
			SF	ZB0247 ¹⁾	49.65	
	<ul style="list-style-type: none"> • For column radiators with 3 to 4 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 2 wall brackets – 2 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0248 0001	39.72	
		30–40 mm	CF	ZB0248 ¹⁾	49.65	
			SF	ZB0248 ¹⁾	49.65	
	<ul style="list-style-type: none"> • For column radiators with 5 to 6 columns • Infinitely adjustable depth • Comprising: <ul style="list-style-type: none"> – 2 wall brackets – 2 holders (L = 130 mm) – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA =	AF	ZB0249 0001	39.72	
		30–40 mm	CF	ZB0249 ¹⁾	49.65	
			SF	ZB0249 ¹⁾	49.65	
	Bracket ZB0257, ZB0258 	<ul style="list-style-type: none"> • For standard column radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62
				CF	ZB0257 ¹⁾	8.28
				SF	ZB0257 ¹⁾	8.28
L = 160 mm			AF	ZB0257 0002	6.62	
			CF	ZB0257 ¹⁾	8.28	
			SF	ZB0257 ¹⁾	8.28	
<ul style="list-style-type: none"> • For Sano radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 		L = 130 mm	AF	ZB0258 0001	6.62	
			CF	ZB0258 ¹⁾	8.28	
			SF	ZB0258 ¹⁾	8.28	
		L = 160 mm	AF	ZB0258 0002	6.62	
			CF	ZB0258 ¹⁾	8.28	
			SF	ZB0258 ¹⁾	8.28	

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

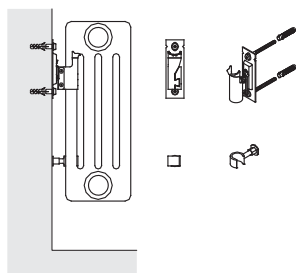
Fixing and dimensional drawings

Accessories

Further information

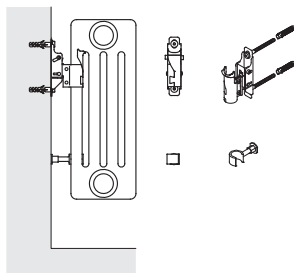


FIXING WITH CLAMPING BRACKET



Top:
Clamping bracket, fixed
ZB0251

Bottom:
Complete spacer
ZB0280 0001–ZB0280 0002



Top:
Clamping bracket, variable
ZB0254

Bottom:
Complete spacer
ZB0280 0001–ZB0280 0002

Special features:



- For standard column radiators and Sano radiators
- The number of fixing brackets must not be less than the minimum.
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

Minimum number of clamping brackets depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2.

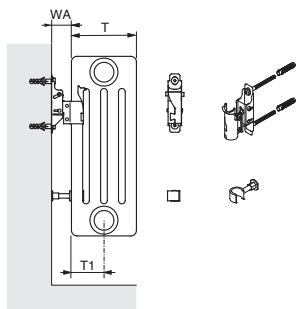


Fig. ZB0254

Height [mm]	Length of elements standard column radiator	Length of elements Sano radiator	Item and number of items		
			Suitable clamping bracket fixed ZB0251	Suitable clamping bracket variable ZB0254	Complete spacer ZB0280
2–4 columns					
300–1000	6–28 *	6–28 *	2x	2x	2x
	29–42	29–42	3x	3x	3x
	43–52	43–52	4x	4x	4x
	53–60	53–60	5x	5x	5x
>1000–2200	6–18	6–16	2x	2x	2x
	19–30	17–30	3x	3x	3x
	31–48	31–48	4x	4x	4x
>2200–3000	49–60	49–60	5x	5x	5x
	6–18	6–16	2x	2x	2x
	19–30	19–30	3x	3x	3x
5 & 6 columns					
300–550	6–12	6–12	2x	2x	2x
	13–30	13–30	3x	3x	3x
	31–40	31–40	4x	4x	4x
	41–50	41–50	5x	5x	5x
	51–60	51–60	6x	6x	6x
>550–1500	6–20	6–18	2x	2x	2x
	21–30	19–30	3x	3x	3x
	31–40	31–40	4x	4x	4x
	41–50	41–50	5x	5x	5x
	51–60	51–60	6x	6x	6x
>1500–3000	6–10	6–10	2x	2x	2x
	11–18	11–18	3x	3x	3x
	19–24	19–24	4x	4x	4x
	25–30	25–30	5x	5x	5x

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	30
4 columns	145	72.5	35–45
5 columns	185	92.5	45–60
6 columns	225	112.5	

* To avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Clamping bracket fixed ZB0251	<ul style="list-style-type: none"> For column radiators and Sano radiators Comprising: <ul style="list-style-type: none"> 1 clamping bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	WA = 30 mm	AF	ZB0251 0001	13.24
			CF	ZB0251 ¹⁾	16.55
			SF	ZB0251 ¹⁾	16.55
Clamping bracket variable ZB0254	<ul style="list-style-type: none"> For column radiators and Sano radiators Comprising: <ul style="list-style-type: none"> 1 clamping bracket variable Screws and dowels Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	WA = 35–45 mm	AF	ZB0254 0001	17.41
			CF	ZB0254 ¹⁾	21.76
			SF	ZB0254 ¹⁾	21.76
		WA = 45–60 mm	AF	ZB0254 0002	17.41
			CF	ZB0254 ¹⁾	21.76
			SF	ZB0254 ¹⁾	21.76
Complete spacer ZB0280 0001– ZB0280 0002	<ul style="list-style-type: none"> Infinitely adjustable depth Material/surface: <ul style="list-style-type: none"> White plastic 	WA = 25–60 mm	–	ZB0280 0001	2.39
			–	ZB0280 0002	2.39
Bracket ZB0257, ZB0258	<ul style="list-style-type: none"> For standard column radiators Infinitely adjustable depth Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28
			AF	ZB0257 0002	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28
		L = 160 mm	AF	ZB0258 0001	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
			AF	ZB0258 0002	6.62
CF	ZB0258 ¹⁾	8.28			
SF	ZB0258 ¹⁾	8.28			

General information

Model
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Sano radiators

Model
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Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

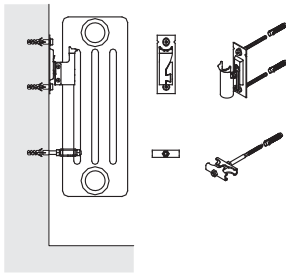
Accessories

Further
information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.

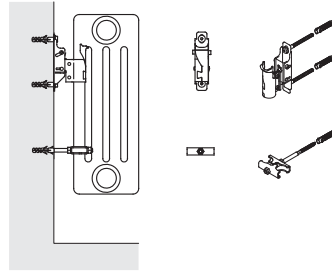


FIXING WITH CLAMPING BRACKET



Top:
Clamping bracket, fixed
ZB0251

Bottom:
Holder
ZB0257



Top:
Clamping bracket, variable
ZB0254

Bottom:
Holder
ZB0257

Special features:

- For standard column radiators
- The number of fixing brackets must not be less than the minimum
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.



Minimum number of clamping brackets

depending on the model and its length in elements according to VDI 6036 – requirements class 3 (e.g. schools).

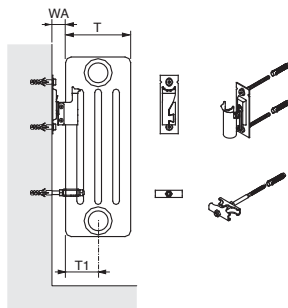


Fig. Clamping bracket ZB0251
Holder ZB0257

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	30
4 columns	145	72.5	35-45
5 columns	185	92.5	45-60
6 columns	225	112.5	

Height [mm]	Length of elements standard column radiator	Item and number of items		
		Suitable clamping bracket fixed ZB0251	Suitable clamping bracket variable ZB0254	Bracket ZB0257
2-4 columns				
300-350	6-20	2x	2x	2x
	21-32	3x	3x	3x
	33-42	4x	4x	4x
	43-52	5x	5x	5x
>350-2200	53-60	6x	6x	6x
	6-22	2x	2x	2x
	23-30	3x	3x	3x
	31-40	4x	4x	4x
>2200-3000	41-50	5x	5x	5x
	51-60	6x	6x	6x
	6-18	2x	2x	2x
19-30		3x	3x	3x
5 & 6 columns				
300-550	6-14	2x	2x	2x
	15-20	3x	3x	3x
	21-26	4x	4x	4x
	27-34	5x	5x	5x
	35-42	6x	6x	6x
	43-48	7x	7x	7x
	49-54	8x	8x	8x
	55-60	9x	9x	9x
>550 - 1500	6-16	2x	2x	2x
	17-24	3x	3x	3x
	25-34	4x	4x	4x
	35-42	5x	5x	5x
	43-50	6x	6x	6x
>1500 - 3000	51-60	7x	7x	7x
	6-10	2x	2x	2x
	11-18	3x	3x	3x
	19-24	4x	4x	4x
25-30	5x	5x	5x	



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Clamping bracket fixed ZB0251	<ul style="list-style-type: none"> For column radiators and Sano radiators Comprising: <ul style="list-style-type: none"> 1 clamping bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	WA = 30 mm	AF	ZB0251 0001	13.24
			CF	ZB0251 ¹⁾	16.55
			SF	ZB0251 ¹⁾	16.55
Clamping bracket variable ZB0254	<ul style="list-style-type: none"> For column radiators and Sano radiators Comprising: <ul style="list-style-type: none"> 1 clamping bracket variable Screws and dowels Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	WA = 35–45 mm	AF	ZB0254 0001	17.41
			CF	ZB0254 ¹⁾	21.76
			SF	ZB0254 ¹⁾	21.76
		WA = 45–60 mm	AF	ZB0254 0002	17.41
			CF	ZB0254 ¹⁾	21.76
			SF	ZB0254 ¹⁾	21.76
Bracket ZB0257	<ul style="list-style-type: none"> For standard column radiators Infinitely adjustable depth Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28
		L = 160 mm	AF	ZB0257 0002	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28

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Model
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Arbonia Individual

Fixing and
dimensional drawings

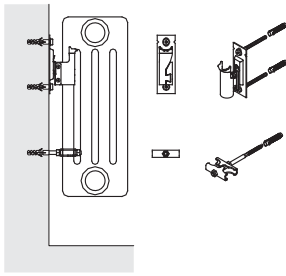
Accessories

Further
information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.

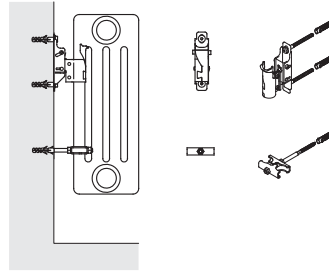


FIXING WITH CLAMPING BRACKET



Top:
Clamping bracket, fixed
ZB0251

Bottom:
Holder
ZB0258



Top:
Clamping bracket, variable
ZB0254

Bottom:
Holder
ZB0258

Special features:

- For Sano radiators
- The number of fixing brackets must not be less than the minimum
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.



Minimum number of clamping brackets depending on the model and its length in elements according to VDI 6036 – requirements class 3 (e.g. schools).

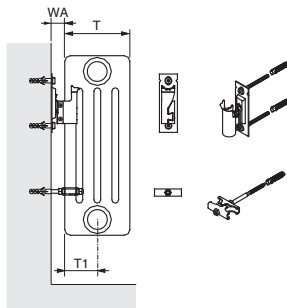


Fig. ZB0251

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	30
4 columns	145	72.5	35-45
5 columns	185	92.5	45-60
6 columns	225	112.5	

Height [mm]	Length of elements Sano radiator	Item and number of items		
		Suitable clamping bracket fixed ZB0251	Suitable clamping bracket variable ZB0254	Bracket ZB0258
2 & 4 columns				
300-350	6-16	2x	2x	2x
	17-22	3x	3x	3x
	23-30	4x	4x	4x
	31-38	5x	5x	5x
	39-46	6x	6x	6x
	47-54	7x	7x	7x
>350-2200	55-60	8x	8x	8x
	6-18	2x	2x	2x
	19-26	3x	3x	3x
	27-34	4x	4x	4x
	35-42	5x	5x	5x
	43-52	6x	6x	6x
>2200-3000	53-60	7x	7x	7x
	6-18	2x	2x	2x
	19-26	3x	3x	3x
	27-30	4x	4x	4x
5 & 6 columns				
300-550	6-8	2x	2x	2x
	9-14	3x	3x	3x
	15-20	4x	4x	4x
	21-24	5x	5x	5x
	25-30	6x	6x	6x
	31-34	7x	7x	7x
	35-40	8x	8x	8x
	41-46	9x	9x	9x
	47-50	10x	10x	10x
	51-56	11x	11x	11x
	57-60	12x	12x	12x
	>550-1500	6-12	2x	2x
13-22		3x	3x	3x
23-28		4x	4x	4x
29-36		5x	5x	5x
37-44		6x	6x	6x
45-52		7x	7x	7x
53-60		4x	4x	4x
6-10		2x	2x	2x
11-16		3x	3x	3x
17-22		4x	4x	4x
23-30		5x	5x	5x



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Clamping bracket fixed ZB0251	<ul style="list-style-type: none"> For column radiators and Sano radiators Comprising: <ul style="list-style-type: none"> 1 clamping bracket Screws and dowels Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	WA = 30 mm	AF	ZB0251 0001	13.24
			CF	ZB0251 ¹⁾	16.55
			SF	ZB0251 ¹⁾	16.55
Clamping bracket variable ZB0254	<ul style="list-style-type: none"> For column radiators and Sano radiators Comprising: <ul style="list-style-type: none"> 1 clamping bracket variable Screws and dowels Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	WA = 35–45 mm	AF	ZB0254 0001	17.41
			CF	ZB0254 ¹⁾	21.76
			SF	ZB0254 ¹⁾	21.76
		WA = 45–60 mm	AF	ZB0254 0002	17.41
			CF	ZB0254 ¹⁾	21.76
			SF	ZB0254 ¹⁾	21.76
Bracket ZB0258	<ul style="list-style-type: none"> For Sano radiators Infinitely adjustable depth Surface: <ul style="list-style-type: none"> Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0258 0001	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
		L = 160 mm	AF	ZB0258 0002	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28

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Standard column radiators

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Sano radiators

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Further
information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2

Special features:

- For standard column radiators and Cambio-therm
- The number of fixing brackets must not be less than the minimum.
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request. The wall bracket can only be used in conjunction with the suitable clamp holder.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see “General information – VDI 6036”.
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

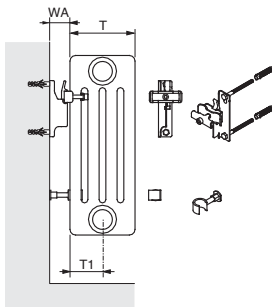


Fig. 1: Wall bracket ZB0282, clamp holder ZB0281 spacer ZB0280

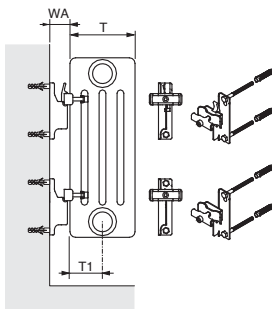


Fig. 2: Wall bracket ZB0282, clamp holder ZB0281 wall bracket ZB0282, clamp holder ZB0281



Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	33
4 columns	145	72.5	43
5 columns	185	92.5	53
6 columns	225	112.5	63

Height [mm]	Length Elements	Item and number of items			
		Fig.1		Fig.2	
		Suitable wall bracket short ZB0282 top	Clamp holder ZB0281 top	Spacer ZB0280 bottom	Suitable wall bracket short ZB0282 top/bottom
2 columns					
300–1100	6–32 **	2x	2x	2x	4x
	33–48	3x	3x	3x	6x
	49–60	4x	4x	4x	8x
>1100–2200	6–24	2x	2x	2x	4x
	25–38	3x	3x	3x	6x
	39–50	4x	4x	4x	8x
>2200–3000	51–60	5x	5x	5x	10x
	6–24	2x	2x	2x	4x
	25–30	3x	3x	3x	6x
3 & 4 columns					
300–450	6–34 **	2x	2x	2x	4x
	35–50	3x	3x	3x	6x
	51–60	4x	4x	4x	8x
>450–1100	6–26 **	2x	2x	2x	4x
	27–40	3x	3x	3x	6x
	41–50	4x	4x	4x	8x
>1100–2200	51–60	5x	5x	5x	10x
	6–14	2x	2x	2x	4x
	15–24	3x	3x	3x	6x
>2200–3000	25–34	4x	4x	4x	8x
	35–42	5x	5x	5x	10x
	43–50	6x	6x	6x	12x
>1100–2200	6–14	2x	2x	2x	4x
	15–22	3x	3x	3x	6x
	23–30	4x	4x	4x	8x
5 & 6 columns					
300–450	6–18	3x	3x	3x	6x
	19–24	4x	4x	4x	8x
	25–30	5x	5x	5x	10x
	31–36	6x	6x	6x	12x
>450–1100	6–16	2x	2x	2x	4x
	17–32	3x	3x	3x	6x
	33–44	4x	4x	4x	8x
>1100–1500	45–54	5x	5x	5x	10x
	55–60	6x	6x	6x	12x
	6–10	2x	2x	2x	4x
>1500–3000	17–28	3x	3x	3x	6x
	29–38	4x	4x	4x	8x
	39–48	5x	5x	5x	10x
>1100–1500	49–60	6x	6x	6x	12x
	6–10	2x	2x	2x	4x
	11–16	3x	3x	3x	6x
>1500–3000	17–22	4x	4x	4x	8x
	23–30	5x	5x	5x	10x

** In order to avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price		
		[4]	[17]	[3]	[EUR]		
Wall bracket short ZB0282 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 23 mm	AF	ZB0282 0001	7.36		
				CF	ZB0282 ¹⁾	9.20	
					SF	ZB0282 ¹⁾	9.20
		WA = 33 mm	AF	ZB0282 0002	7.36		
					CF	ZB0282 ¹⁾	9.20
					SF	ZB0282 ¹⁾	9.20
		WA = 43 mm	AF	ZB0282 0003	7.36		
					CF	ZB0282 ¹⁾	9.20
					SF	ZB0282 ¹⁾	9.20
		WA = 53 mm	AF	ZB0282 0004	7.36		
					CF	ZB0282 ¹⁾	9.20
					SF	ZB0282 ¹⁾	9.20
Clamp holder ZB0281 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on column radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0281 0001	5.15		
				CF	ZB0281 ¹⁾	6.44	
				SF	ZB0281 ¹⁾	6.44	
Complete spacer ZB0280 0001– ZB0280 0002 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – White plastic 	WA = 25–60 mm		ZB0280 0001	2.39		
					ZB0280 0002	2.39	
Complete spacer 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – Grey plastic 	WA = 25–60 mm		ZB0280 0002	2.39		
Spacer extension ZB0294 0001 	<ul style="list-style-type: none"> • For spacer ZB0280 • Comprising: <ul style="list-style-type: none"> – 2 extension pieces • Material: <ul style="list-style-type: none"> – Aluminium 	L = 35 mm		ZB0294 0001	6.76		
Bracket ZB0257, ZB0258 	<ul style="list-style-type: none"> • For standard column radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62		
				CF	ZB0257 ¹⁾	8.28	
					SF	ZB0257 ¹⁾	8.28
		L = 160 mm	AF	ZB0257 0002	6.62		
					CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28		

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

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Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)

When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools)

Special features:

- For standard column radiators and Cambiotherm
- The number of fixing brackets must not be less than the minimum.
- For a wall distance > 50 mm, only use in conjunction with dehinging safety device and shift restraint
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see “General information – VDI 6036”.
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

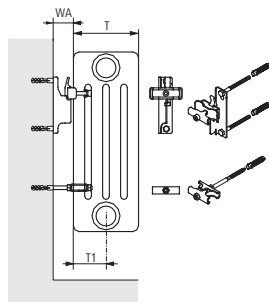


Fig. Wall bracket ZB0282, clamp holder ZB0281 spacer ZB0257

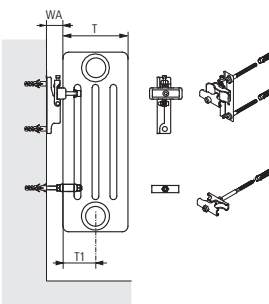






Fig. Wall bracket ZB0282, clamp holder ZB0281, dehinging safety device and shift restraint ZK0020 spacer ZB0257

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	33
4 columns	145	72.5	43
5 columns	185	92.5	53
6 columns	225	112.5	63

Height [mm]	Length Elements	Item and number of items		
		Suitable wall bracket short ZB0282	Clamp holder ZB0281	Bracket ZB0257
2 columns				
300–2200	6–18	2x	2x	2x
	19–26	3x	3x	3x
	27–36	4x	4x	4x
	37–44	5x	5x	5x
	45–52	6x	6x	6x
>2200–3000	53–60	7x	7x	7x
	6–20	2x	2x	2x
21–30	3x	3x	3x	
	3 & 4 columns			
300–1100	6–18	2x	2x	2x
	19–26	3x	3x	3x
	27–36	4x	4x	4x
	37–46	5x	5x	5x
	47–54	6x	6x	6x
	55–60	7x	7x	7x
	6–14	2x	2x	2x
	15–22	3x	3x	3x
	23–26	4x	4x	4x
	27–38	5x	5x	5x
>1100–2200	39–44	6x	6x	6x
	45–52	7x	7x	7x
	53–60	8x	8x	8x
	6–14	2x	2x	2x
	15–22	3x	3x	3x
	23–26	4x	4x	4x
	27–30	5x	5x	5x
5 & 6 columns				
300–450	6–12	2x	2x	2x
	13–18	3x	3x	3x
	19–24	4x	4x	4x
	25–30	5x	5x	5x
	31–36	6x	6x	6x
	37–42	7x	7x	7x
	43–50	8x	8x	8x
>450–1500	6–16	2x	2x	2x
	17–22	3x	3x	3x
	23–30	4x	4x	4x
	31–38	5x	5x	5x
	39–46	6x	6x	6x
	47–52	7x	7x	7x
	53–60	8x	8x	8x
>1500–3000	6–10	2x	2x	2x
	11–16	3x	3x	3x
	17–22	4x	4x	4x
	23–30	5x	5x	5x



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Wall bracket short ZB0282 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 23 mm	AF	ZB0282 0001	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 33 mm	AF	ZB0282 0002	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 43 mm	AF	ZB0282 0003	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 53 mm	AF	ZB0282 0004	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
Dehinging safety device and shifting restraint set ZK0020 0001, ZK0020 0002 	<ul style="list-style-type: none"> • For ZB0282 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel 		–	ZK0020 0001	16.02
			–	ZK0020 0002	16.02
Clamp holder ZB0281 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on column radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0281 0001	5.15
			CF	ZB0281 ¹⁾	6.44
			SF	ZB0281 ¹⁾	6.44
Bracket ZB0257 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] • For standard column radiators 	L = 130 mm	AF	ZB0257 0001	6.62
			CF	ZB0257 ¹⁾	8.28
		L = 160 mm	SF	ZB0257 ¹⁾	8.28
			AF	ZB0257 0002	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2*

Special features:

- For standard column radiators and Cambio-therm
- The number of fixing brackets must not be less than the minimum.
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- The wall bracket can only be used in conjunction with the suitable clamp holder.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see “General information – VDI 6036”.
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

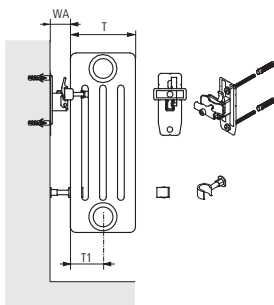


Fig. Wall bracket ZB0287, clamp holder ZB0281 spacer ZB0280

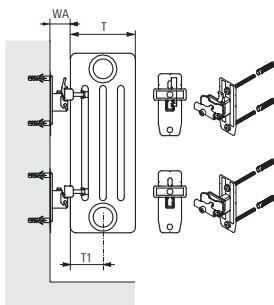


Fig. Wall bracket ZB0287, clamp holder ZB0281 wall bracket ZB0287, clamp holder ZB0281

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	45-55
4 columns	145	72.5	55-70
5 columns	185	92.5	70-100
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items			
		Fig.1		Fig.2	
		Suitable wall bracket variable ZB0287 top	Clamp holder ZB0281 top	Spacer ZB0280 bottom	Suitable wall bracket variable ZB0287 top/bottom
2 columns					
300-1100	6-32 **	2x	2x	2x	4x
	33-48	3x	3x	3x	6x
	49-60	4x	4x	4x	8x
>1100-2200	6-24	2x	2x	2x	4x
	25-38	3x	3x	3x	6x
	39-50	4x	4x	4x	8x
>2200-3000	51-60	5x	5x	5x	10x
	6-24	2x	2x	2x	4x
25-30	3x	3x	3x	6x	
	3 & 4 columns				
300-450	6-34 **	2x	2x	2x	4x
	35-50	3x	3x	3x	6x
	51-60	4x	4x	4x	8x
>450-1100	6-26 **	2x	2x	2x	4x
	27-40	3x	3x	3x	6x
	41-50	4x	4x	4x	8x
>1100-2200	51-60	5x	5x	5x	10x
	6-14	2x	2x	2x	4x
	15-24	3x	3x	3x	6x
>2200-3000	25-34	4x	4x	4x	8x
	35-42	5x	5x	5x	10x
	43-50	6x	6x	6x	12x
6-14	2x	2x	2x	4x	
	15-22	3x	3x	3x	6x
23-30	4x	4x	4x	2x	
	5 & 6 columns				
300-450	6-18	3x	3x	3x	6x
	19-24	4x	4x	4x	8x
	25-30	5x	5x	5x	10x
>450 - 1100	31-36	6x	6x	6x	12x
	6-16	2x	2x	2x	4x
	17-32	3x	3x	3x	6x
>1100-1500	33-44	4x	4x	4x	8x
	45-54	5x	5x	5x	10x
	55-60	6x	6x	6x	12x
>1500-3000	6-10	2x	2x	2x	4x
	17-28	3x	3x	3x	6x
	29-38	4x	4x	4x	8x
39-48	5x	5x	5x	10x	
	49-60	6x	6x	6x	12x
	6-10	2x	2x	2x	4x
11-16	3x	3x	3x	6x	
	17-22	4x	4x	4x	8x
	23-30	5x	5x	5x	10x

* Please request separate allocation for variable wall bracket (ZB0287) with wall distance 60-100 mm.

** In order to avoid bending and distortion, use an additional bracket (ZB0257) for a length of 22 elements or more if necessary.



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price		
		[4]	[17]	[3]	[EUR]		
Wall bracket variable ZB0287 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket variable – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 35–45 mm	AF	ZB0287 0001	13.79		
				CF	ZB0287 ¹⁾	17.24	
					SF	ZB0287 ¹⁾	17.24
		WA = 45–60 mm	AF	ZB0287 0002	13.79		
			CF	ZB0287 ¹⁾	17.24		
			SF	ZB0287 ¹⁾	17.24		
		WA = 60–100 mm	AF	ZB0287 0003	13.79		
			CF	ZB0287 ¹⁾	17.24		
			SF	ZB0287 ¹⁾	17.24		
Clamp holder ZB0281 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on column radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0281 0001	5.15		
			CF	ZB0281 ¹⁾	6.44		
			SF	ZB0281 ¹⁾	6.44		
Complete spacer ZB0280 0001– ZB0280 0002 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – White plastic 	WA = 25–60 mm	–	ZB0280 0001	2.39		
						<ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – Grey plastic 	WA = 25–60 mm
Spacer extension ZB0294 0001 	<ul style="list-style-type: none"> • For spacer ZB0280 • Comprising: <ul style="list-style-type: none"> – 2 extension pieces • Material: <ul style="list-style-type: none"> – Aluminium 	L = 35 mm	–	ZB0294 0001	6.76		
Bracket ZB0257, ZB0258 	<ul style="list-style-type: none"> • For standard column radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62		
			CF	ZB0257 ¹⁾	8.28		
			SF	ZB0257 ¹⁾	8.28		
		L = 160 mm	AF	ZB0257 0002	6.62		
			CF	ZB0257 ¹⁾	8.28		
			SF	ZB0257 ¹⁾	8.28		

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

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Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools)*.

Special features:

- For standard column radiators and Cambiotherm
- The number of fixing brackets must not be less than the minimum.
- For a wall distance > 50 mm, only use in conjunction with dehinging safety device and shift restraint
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For column radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see “General information – VDI 6036”.
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

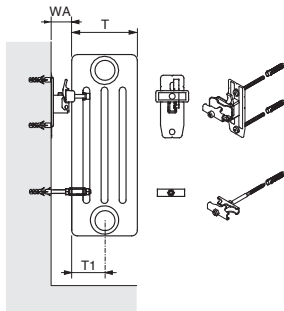


Fig. Wall bracket ZB0287, clamp holder ZB0281 spacer ZB0257

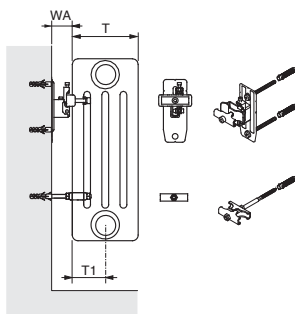


Fig. Wall bracket ZB0287, clamp holder ZB0281, dehinging safety device and shift restraint ZK0020 spacer ZB0257

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	45–55
4 columns	145	72.5	55–70
5 columns	185	92.5	70–100
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items		
		Suitable variable wall bracket ZB0287 top	Clamp holder ZB0281 top	Bracket ZB0257
2 columns				
300–2200	6–18	2x	2x	2x
	19–26	3x	3x	3x
	27–36	4x	4x	4x
	37–44	5x	5x	5x
	45–52	6x	6x	6x
>2200–3000	53–60	7x	7x	7x
	6–20	2x	2x	2x
	21–30	3x	3x	3x
3 & 4 columns				
300–1100	6–18	2x	2x	2x
	19–26	3x	3x	3x
	27–36	4x	4x	4x
	37–46	5x	5x	5x
	47–54	6x	6x	6x
	55–60	7x	7x	7x
	6–14	2x	2x	2x
	15–22	3x	3x	3x
	23–26	4x	4x	4x
	27–38	5x	5x	5x
>1100–2200	39–44	6x	6x	6x
	45–52	7x	7x	7x
	53–60	8x	8x	8x
	6–14	2x	2x	2x
	15–22	3x	3x	3x
>2200–3000	23–26	4x	4x	4x
	27–30	5x	5x	5x

5 & 6 columns				
300–450	6–12	2x	2x	2x
	13–18	3x	3x	3x
	19–24	4x	4x	4x
	25–30	5x	5x	5x
	31–36	6x	6x	6x
	37–42	7x	7x	7x
	43–50	8x	8x	8x
>450–1500	6–16	2x	2x	2x
	17–22	3x	3x	3x
	23–30	4x	4x	4x
	31–38	5x	5x	5x
	39–46	6x	6x	6x
	47–52	7x	7x	7x
	53–60	8x	8x	8x
>1500–3000	6–10	2x	2x	2x
	11–16	3x	3x	3x
	17–22	4x	4x	4x
	23–30	5x	5x	5x

* Please request separate allocation for variable wall bracket (ZB0287) with wall distance 60–100 mm.



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Wall bracket variable ZB0287 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket variable – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 35–45 mm	AF	ZB0287 0001	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 45–60 mm	AF	ZB0287 0002	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 60–100 mm	AF	ZB0287 0003	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
Dehinging safety device and shifting restraint set ZK0020 0001, ZK0020 0002 	<ul style="list-style-type: none"> • For ZB0282 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel 		–	ZK0020 0001	16.02
			–	ZK0020 0002	16.02
Clamp holder ZB0281 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on column radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0281 0001	5.15
			CF	ZB0281 ¹⁾	6.44
			SF	ZB0281 ¹⁾	6.44
Bracket ZB0257 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] • For standard column radiators 	L = 130 mm	AF	ZB0257 0001	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28
		L = 160 mm	AF	ZB0257 0002	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

Accessories

Further
information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2

Special features:

- For Sano radiators
- The number of fixing brackets must not be less than the minimum.
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- The wall bracket can only be used in conjunction with the suitable clamp holder.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see “General information – VDI 6036”.
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

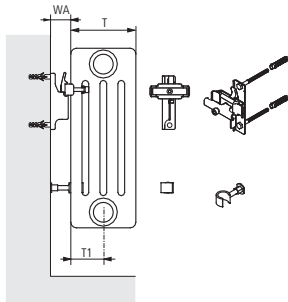


Fig. Wall bracket ZB0282, Sano clamp holder ZB0305 spacer ZB0280

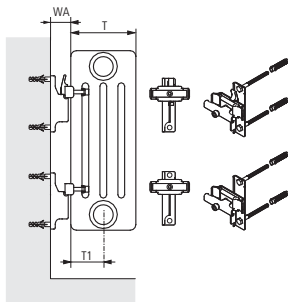






Fig. Wall bracket ZB0282, Sano clamp holder ZB0305 wall bracket ZB0282, Sano clamp holder ZB0305

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	33
4 columns	145	72.5	43
5 columns	185	92.5	53
6 columns	225	112.5	63

Height [mm]	Length Elements	Item and number of items			
		Fig.1		Fig.2	
		Suitable wall bracket short ZB0282 top	Sano clamp holder top	Spacer complete ZB0280 bottom	Suitable wall bracket short ZB0282 bottom
2 columns					
300–1100	6–32	2x	2x	2x	2x
	33–48	3x	3x	3x	3x
	49–60	4x	4x	4x	4x
>1100–2200	6–24	2x	2x	2x	2x
	25–38	3x	3x	3x	3x
	39–50	4x	4x	4x	4x
	51–60	5x	5x	5x	5x
>2200–3000	6–24	2x	2x	2x	2x
	25–30	3x	3x	3x	3x
3 & 4 columns					
300–450	6–34	2x	2x	2x	2x
	35–50	3x	3x	3x	3x
	51–60	4x	4x	4x	4x
>450–1100	6–26	2x	2x	2x	2x
	27–40	3x	3x	3x	3x
	41–56	4x	4x	4x	4x
	57–60	5x	5x	5x	5x
	6–14	2x	2x	2x	2x
>1100–2200	15–22	3x	3x	3x	3x
	23–30	4x	4x	4x	4x
	31–38	5x	5x	5x	5x
	39–46	6x	6x	6x	6x
	47–54	7x	7x	7x	7x
	55–60	8x	8x	8x	8x
>2200–3000	6–14	2x	2x	2x	2x
	15–22	3x	3x	3x	3x
	23–30	4x	4x	4x	4x
5 & 6 columns					
300–450	6–18	3x	3x	3x	3x
	19–24	4x	4x	4x	4x
	25–30	5x	5x	5x	5x
	31–36	6x	6x	6x	6x
	37–42	7x	7x	7x	7x
	43–48	8x	8x	8x	8x
	49–54	9x	9x	9x	9x
>450–1100	55–60	10x	10x	10x	10x
	6–16	2x	2x	2x	2x
	17–26	3x	3x	3x	3x
	27–34	4x	4x	4x	4x
	35–42	5x	5x	5x	5x
	43–50	6x	6x	6x	6x
	51–60	7x	7x	7x	7x
>1100–1500	6–16	2x	2x	2x	2x
	17–24	3x	3x	3x	3x
	25–30	4x	4x	4x	4x
	31–36	5x	5x	5x	5x
	37–44	6x	6x	6x	6x
	45–52	7x	7x	7x	7x
	53–58	8x	8x	8x	8x
>1500–3000	59–60	9x	9x	9x	9x
	6–10	2x	2x	2x	2x
	11–16	3x	3x	3x	3x
	17–20	4x	4x	4x	4x
	21–24	5x	5x	5x	5x
25–30	6x	6x	6x	6x	



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price		
		[4]	[17]	[3]	[EUR]		
Wall bracket short ZB0282 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 23 mm	AF	ZB0282 0001	7.36		
				CF	ZB0282 ¹⁾	9.20	
					SF	ZB0282 ¹⁾	9.20
				WA = 33 mm	AF	ZB0282 0002	7.36
					CF	ZB0282 ¹⁾	9.20
					SF	ZB0282 ¹⁾	9.20
				WA = 43 mm	AF	ZB0282 0003	7.36
					CF	ZB0282 ¹⁾	9.20
					SF	ZB0282 ¹⁾	9.20
				WA = 53 mm	AF	ZB0282 0004	7.36
					CF	ZB0282 ¹⁾	9.20
					SF	ZB0282 ¹⁾	9.20
Sano clamp holder ZB0305 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on Sano radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0305 0001	6.96		
				CF	ZB0305 ¹⁾	8.70	
				SF	ZB0305 ¹⁾	8.70	
Complete spacer ZB0280 0001– ZB0280 0002 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – White plastic 	WA = 25–60 mm	–	ZB0280 0001	2.39		
						ZB0280 0002	2.39
Complete spacer 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – Grey plastic 	WA = 25–60 mm	–	ZB0280 0002	2.39		
Spacer extension ZB0294 0001 	<ul style="list-style-type: none"> • For spacer ZB0280 • Comprising: <ul style="list-style-type: none"> – 2 extension pieces • Material: <ul style="list-style-type: none"> – Aluminium 	L = 35 mm	–	ZB0294 0001	6.76		

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools).

Special features:

- For Sano radiators
- The number of fixing brackets must not be less than the minimum**
- For a wall distance > 50 mm, only use in conjunction with dehinging safety device and shift restraint
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

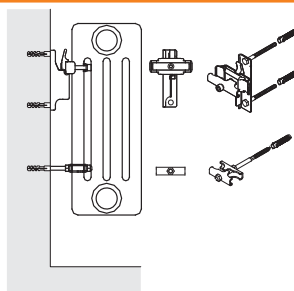


Fig. Wall bracket ZB0282, Sano clamp holder ZB0305, holder ZB0258

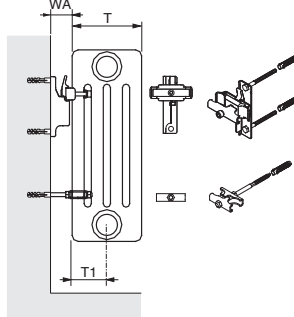


Fig. Wall bracket ZB0282, Sano clamp holder ZB0305, dehinging safety device and shift restraint ZK0020, holder ZB0258





Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	45–55
4 columns	145	72.5	55–70
5 columns	185	92.5	70–100
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items		
		Suitable wall bracket variable ZB0282 top	Sano clamp holder ZB0305 top	Holder ZB0258 bottom
2 columns				
300–750	6–14	2x	2x	2x
	15–20	3x	3x	3x
	21–28	4x	4x	4x
	29–34	5x	5x	5x
	35–40	6x	6x	6x
	41–46	7x	7x	7x
	47–54	8x	8x	8x
	55–60	9x	9x	9x
>750–2200	6–16	2x	2x	2x
	17–22	3x	3x	3x
	23–30	4x	4x	4x
	31–36	5x	5x	5x
	37–42	6x	6x	6x
	43–48	7x	7x	7x
	49–58	8x	8x	8x
	59–60	9x	9x	9x
>2200–3000	6–18	2x	2x	2x
	19–26	3x	3x	3x
	27–30	4x	4x	4x
3 & 4 columns				
300–750	6–16	2x	2x	2x
	17–22	3x	3x	3x
	23–30	4x	4x	4x
	31–36	5x	5x	5x
	37–44	6x	6x	6x
	45–50	7x	7x	7x
	51–58	8x	8x	8x
	59–60	9x	9x	9x
>750–2200	6–12	2x	2x	2x
	13–20	3x	3x	3x
	21–26	4x	4x	4x
	27–32	5x	5x	5x
	33–38	6x	6x	6x
	39–44	7x	7x	7x
	45–52	8x	8x	8x
	53–58	9x	9x	9x
>2200–3000	59–60	10x	10x	10x
	6–12	2x	2x	2x
	13–20	3x	3x	3x
	21–26	4x	4x	4x
	27–30	5x	5x	5x
	39–49	6x	6x	6x
	47–54	7x	7x	7x
55–60	8x	8x	8x	
5 & 6 columns				

See page after next



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Wall bracket short ZB0282 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 23 mm	AF	ZB0282 0001	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 33 mm	AF	ZB0282 0002	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 43 mm	AF	ZB0282 0003	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 53 mm	AF	ZB0282 0004	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
Dehinging safety device and shifting restraint set ZK0020 0001, ZK0020 0002 	<ul style="list-style-type: none"> • For ZB0282 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel 		–	ZK0020 0001	16.02
			–	ZK0020 0002	16.02
Sano clamp holder ZB0305 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on Sano radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0305 0001	6.96
			CF	ZB0305 ¹⁾	8.70
			SF	ZB0305 ¹⁾	8.70
Bracket ZB0258 	<ul style="list-style-type: none"> • For Sano radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0258 0001	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
		L = 160 mm	AF	ZB0258 0002	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools).

Special features:

- For Sano radiators
- The number of fixing brackets must not be less than the minimum**
- For a wall distance > 50 mm, only use in conjunction with dehinging safety device and shift restraint
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

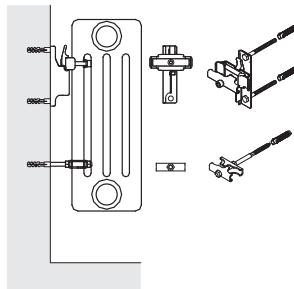


Fig. Wall bracket ZB0282, Sano clamp holder ZB0305 holder ZB0258

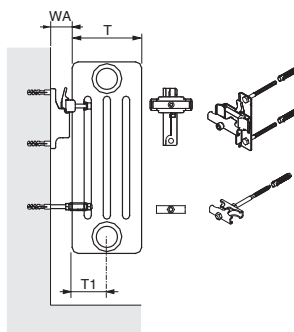






Fig. Wall bracket ZB0282, Sano clamp holder ZB0305, dehinging safety device and shift restraint ZK0020, holder ZB0258

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	45–55
4 columns	145	72.5	55–70
5 columns	185	92.5	70–100
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items		
		Suitable wall bracket variable ZB0282 top	Sano clamp holder ZB0305 top	Holder ZB0258 bottom
5 & 6 columns				
300–450	6–8	2x	2x	2x
	9–14	3x	3x	3x
	15–18	4x	4x	4x
	19–24	5x	5x	5x
	25–28	6x	6x	6x
	29–32	7x	7x	7x
	33–38	8x	8x	8x
	39–42	9x	9x	9x
	43–46	10x	10x	10x
	47–50	11x	11x	11x
>450–1500	51–56	12x	12x	12x
	6–12	2x	2x	2x
	13–18	3x	3x	3x
	19–22	4x	4x	4x
	23–28	5x	5x	5x
	29–34	6x	6x	6x
	35–38	7x	7x	7x
	39–44	8x	8x	8x
	45–50	9x	9x	9x
	51–54	10x	10x	10x
>1500–3000	55–60	11x	11x	11x
	6–8	2x	2x	2x
	9–14	3x	3x	3x
	15–20	4x	4x	4x
	21–24	5x	5x	5x
	25–28	6x	6x	6x
	29–30	7x	7x	7x



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Wall bracket short ZB0282 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 23 mm	AF	ZB0282 0001	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 33 mm	AF	ZB0282 0002	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 43 mm	AF	ZB0282 0003	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
		WA = 53 mm	AF	ZB0282 0004	7.36
			CF	ZB0282 ¹⁾	9.20
			SF	ZB0282 ¹⁾	9.20
Dehinging safety device and shifting restraint set ZK0020 0001, ZK0020 0002 	<ul style="list-style-type: none"> • For ZB0282 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel 		–	ZK0020 0001	16.02
			–	ZK0020 0002	16.02
Sano clamp holder ZB0305 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on Sano radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0305 0001	6.96
			CF	ZB0305 ¹⁾	8.70
			SF	ZB0305 ¹⁾	8.70
Bracket ZB0258 	<ul style="list-style-type: none"> • For Sano radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0258 0001	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
		L = 160 mm	AF	ZB0258 0002	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2*

Special features:

- For Sano radiators
- **The number of fixing brackets must not be less than the minimum.**
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- The wall bracket can only be used in conjunction with the suitable clamp holder.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see “General information – VDI 6036”.
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

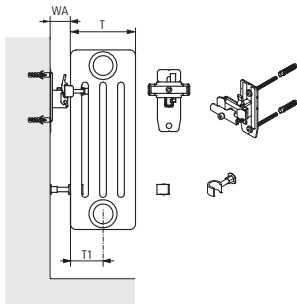


Fig. Wall bracket ZB0287, Sano clamp holder ZB0305 spacer ZB0280

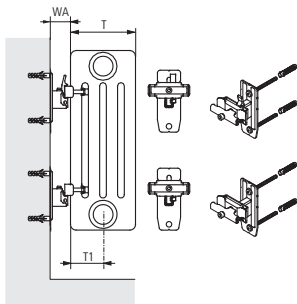


Fig. Wall bracket ZB0287, Sano clamp holder ZB0305 wall bracket ZB0287, Sano clamp holder ZB0305






Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	45–55
4 columns	145	72.5	55–70
5 columns	185	92.5	70–100
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items			
		Fig.1		Fig.2	
		Suitable wall bracket short ZB0287 top	Sano clamp holder top	Spacer complete ZB0280 bottom	Suitable wall bracket short ZB0287 bottom
2 columns					
300–1100	6–32	2x	2x	2x	2x
	33–48	3x	3x	3x	3x
	49–60	4x	4x	4x	4x
>1100–2200	6–24	2x	2x	2x	2x
	25–38	3x	3x	3x	3x
	39–50	4x	4x	4x	4x
	51–60	5x	5x	5x	5x
>2200–3000	6–24	2x	2x	2x	2x
	25–30	3x	3x	3x	3x
3 & 4 columns					
300–450	6–34	2x	2x	2x	2x
	35–50	3x	3x	3x	3x
	51–60	4x	4x	4x	4x
>450–1100	6–26	2x	2x	2x	2x
	27–40	3x	3x	3x	3x
	41–56	4x	4x	4x	4x
	57–60	5x	5x	5x	5x
>1100–2200	6–14	2x	2x	2x	2x
	15–22	3x	3x	3x	3x
	23–30	4x	4x	4x	4x
	31–38	5x	5x	5x	5x
	39–46	6x	6x	6x	6x
	47–54	7x	7x	7x	7x
>2200–3000	55–60	8x	8x	8x	8x
	6–14	2x	2x	2x	2x
	15–22	3x	3x	3x	3x
	23–30	4x	4x	4x	4x
5 & 6 columns					
300–450	6–18	3x	3x	3x	3x
	19–24	4x	4x	4x	4x
	25–30	5x	5x	5x	5x
	31–36	6x	6x	6x	6x
	37–42	7x	7x	7x	7x
	43–48	8x	8x	8x	8x
	49–54	9x	9x	9x	9x
	55–60	10x	10x	10x	10x
>450–1100	6–16	2x	2x	2x	2x
	17–26	3x	3x	3x	3x
	27–34	4x	4x	4x	4x
	35–42	5x	5x	5x	5x
	43–50	6x	6x	6x	6x
	51–60	7x	7x	7x	7x
>1100–1500	6–16	2x	2x	2x	2x
	17–24	3x	3x	3x	3x
	25–30	4x	4x	4x	4x
	31–36	5x	5x	5x	5x
	37–44	6x	6x	6x	6x
	45–52	7x	7x	7x	7x
	53–58	8x	8x	8x	8x
	59–60	9x	9x	9x	9x
>1500–3000	6–10	2x	2x	2x	2x
	11–16	3x	3x	3x	3x
	17–20	4x	4x	4x	4x
	21–24	5x	5x	5x	5x
	25–30	6x	6x	6x	6x

* Please request separate allocation for variable wall bracket (ZB0287) with wall distance 60–100 mm.



WALL FIXING

Description Product code	Feature	Dimensions Order code 4	Surface/ Finish Order code 17	Product Model Order code 3	Price [EUR]
Wall bracket variable ZB0287 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket variable – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF 	WA = 35–45 mm	AF	ZB0287 0001	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 45–60 mm	AF	ZB0287 0002	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 60–100 mm	AF	ZB0287 0003	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
Sano clamp holder ZB0305 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on Sano radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in AF , CF , SF 	60 x 25 mm	AF	ZB0305 0001	6.96
			CF	ZB0305 ¹⁾	8.70
			SF	ZB0305 ¹⁾	8.70
Complete spacer ZB0280 0001– ZB0280 0002 	<ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – White plastic 	WA = 25–60 mm	–	ZB0280 0001	2.39
			 <ul style="list-style-type: none"> • Infinitely adjustable depth • Material/surface: <ul style="list-style-type: none"> – Grey plastic 	–	ZB0280 0002
Spacer extension ZB0294 0001 	<ul style="list-style-type: none"> • For spacer ZB0280 • Comprising: <ul style="list-style-type: none"> – 2 extension pieces • Material: <ul style="list-style-type: none"> – Aluminium 	L = 35 mm	–	ZB0294 0001	6.76

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

Accessories

Further
information

1) Dimensions characteristic |4|, Surface / Finish characteristic |17|, Surface / Colour characteristic |18/0| and Surface / Colour code characteristic |18| must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools)*.

Special features:

- For Sano radiators
- The number of fixing brackets must not be less than the minimum
- For a wall distance > 50 mm, only use in conjunction with dehinging safety device and shift restraint
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

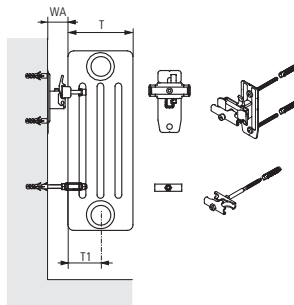


Fig. Wall bracket ZB0287, Sano clamp holder ZB0305 holder ZB0258

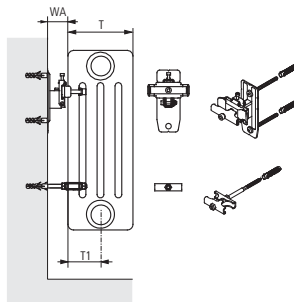


Fig. Wall bracket ZB0287, Sano clamp holder ZB0305, dehinging safety device and shift restraint ZK0020, holder ZB0258

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	45–55
4 columns	145	72.5	55–70
5 columns	185	92.5	70–100
6 columns	225	112.5	


Height [mm]	Length Elements	Item and number of items		
		Suitable variable wall bracket ZB0287 top	Sano clamp holder ZB0305 top	Holder ZB0258 bottom
2 columns				
300–750	6–14	2x	2x	2x
	15–20	3x	3x	3x
	21–28	4x	4x	4x
	29–34	5x	5x	5x
	35–40	6x	6x	6x
	41–46	7x	7x	7x
	47–54	8x	8x	8x
	55–60	9x	9x	9x
>750–2200	6–16	2x	2x	2x
	17–22	3x	3x	3x
	23–30	4x	4x	4x
	31–36	5x	5x	5x
	37–42	6x	6x	6x
	43–48	7x	7x	7x
	49–58	8x	8x	8x
	59–60	9x	9x	9x
>2200–3000	6–18	2x	2x	2x
	19–26	3x	3x	3x
	27–30	4x	4x	4x
3 & 4 columns				
300–750	6–16	2x	2x	2x
	17–22	3x	3x	3x
	23–30	4x	4x	4x
	31–36	5x	5x	5x
	37–44	6x	6x	6x
	45–50	7x	7x	7x
	51–58	8x	8x	8x
	59–60	9x	9x	9x
>750–2200	6–12	2x	2x	2x
	13–20	3x	3x	3x
	21–26	4x	4x	4x
	27–32	5x	5x	5x
	33–38	6x	6x	6x
	39–44	7x	7x	7x
	45–52	8x	8x	8x
	53–58	9x	9x	9x
>2200–3000	59–60	10x	10x	10x
	6–12	2x	2x	2x
	13–20	3x	3x	3x
	21–26	4x	4x	4x
	27–30	5x	5x	5x
	39–49	6x	6x	6x
	47–54	7x	7x	7x
	55–60	8x	8x	8x
5 & 6 columns				

See page after next

* Please request separate allocation for variable wall bracket (ZB0287) with wall distance 60–100 mm.



WALL FIXING

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Wall bracket variable ZB0287 	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket variable – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 35–45 mm	AF	ZB0287 0001	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 45–60 mm	AF	ZB0287 0002	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 60–100 mm	AF	ZB0287 0003	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
Dehinging safety device and shifting restraint set ZK0020 0001, ZK0020 0002 	<ul style="list-style-type: none"> • For ZB0282 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel 		–	ZK0020 0001	16.02
			–	ZK0020 0002	16.02
Sano clamp holder ZB0305 	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on Sano radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0305 0001	6.96
			CF	ZB0305 ¹⁾	8.70
			SF	ZB0305 ¹⁾	8.70
Bracket ZB0258 	<ul style="list-style-type: none"> • For Sano radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0258 0001	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
		L = 160 mm	AF	ZB0258 0002	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

Accessories

Further
information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH WALL BRACKET

Minimum number of brackets

depending on the model and its length in elements according to VDI 6036 – requirement class 3 (e.g. schools).

Special features:

- For Sano radiators
- The number of fixing brackets must not be less than the minimum**
- For a wall distance > 50 mm, only use in conjunction with dehinging safety device and shift restraint
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- For Sano radiators with a length of less than 6 elements, ask about a suitable fixing system.
- Stated number of fixing points tested on a wall of T14 vertical coring lightweight brick with 15 mm thick gypsum plaster and appropriate to recommended connection situations according to VDI 6036 Appendix D. For definition of VDI 6036 Appendix D, see "General information – VDI 6036".
- Wall-building material needs to be tested on site for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.

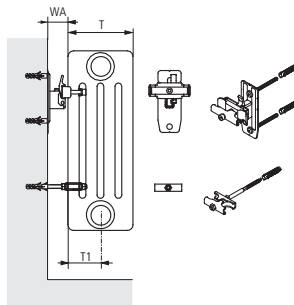


Fig. Wall bracket ZB0287, Sano clamp holder ZB0305 holder ZB0258

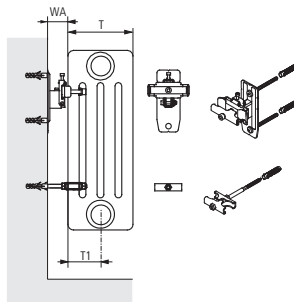


Fig. Wall bracket ZB0287, Sano clamp holder ZB0305, dehinging safety device and shift restraint ZK0020, holder ZB0258

Number of columns	T [mm]	T1 [mm]	Distance to wall WA [mm]
2 columns	65	32.5	
3 columns	105	52.5	45–55
4 columns	145	72.5	55–70
5 columns	185	92.5	70–100
6 columns	225	112.5	

Height [mm]	Length Elements	Item and number of items		
		Suitable wall bracket variable ZB0282 top	Sano clamp holder ZB0305 top	Holder ZB0258 bottom
5 & 6 columns				
300–450	6–8	2x	2x	2x
	9–14	3x	3x	3x
	15–18	4x	4x	4x
	19–24	5x	5x	5x
	25–28	6x	6x	6x
	29–32	7x	7x	7x
	33–38	8x	8x	8x
	39–42	9x	9x	9x
	43–46	10x	10x	10x
	47–50	11x	11x	11x
>450–1500	51–56	12x	12x	12x
	6–12	2x	2x	2x
	13–18	3x	3x	3x
	19–22	4x	4x	4x
	23–28	5x	5x	5x
	29–34	6x	6x	6x
	35–38	7x	7x	7x
	39–44	8x	8x	8x
	45–50	9x	9x	9x
	51–54	10x	10x	10x
>1500–3000	55–60	11x	11x	11x
	6–8	2x	2x	2x
	9–14	3x	3x	3x
	15–20	4x	4x	4x
	21–24	5x	5x	5x
	25–28	6x	6x	6x
	29–30	7x	7x	7x



WALL FIXING

Description Product code	Feature	Dimensions Order code [4]	Surface/ Finish Order code [17]	Product Model Order code [3]	Price [EUR]
Wall bracket variable ZB0287	<ul style="list-style-type: none"> • Wall bracket for clamp holder or suspension lugs • Comprising: <ul style="list-style-type: none"> – 1 wall bracket variable – Dehinging safety device – Screws and dowels • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	WA = 35–45 mm	AF	ZB0287 0001	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 45–60 mm	AF	ZB0287 0002	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
		WA = 60–100 mm	AF	ZB0287 0003	13.79
			CF	ZB0287 ¹⁾	17.24
			SF	ZB0287 ¹⁾	17.24
Dehinging safety device and shifting restraint set ZK0020 0001, ZK0020 0002	<ul style="list-style-type: none"> • For ZB0282 • Comprising: <ul style="list-style-type: none"> – 2 dehinging safety device and shift restraint brackets • Material/surface: <ul style="list-style-type: none"> – Stainless steel 		–	ZK0020 0001	16.02
			–	ZK0020 0002	16.02
Sano clamp holder ZB0305	<ul style="list-style-type: none"> • Clamp holder for wall and built-into-wall bracket, for screwing on Sano radiators • WA = WA wall bracket + 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	60 x 25 mm	AF	ZB0305 0001	6.96
			CF	ZB0305 ¹⁾	8.70
			SF	ZB0305 ¹⁾	8.70
Bracket ZB0258	<ul style="list-style-type: none"> • For Sano radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0258 0001	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
		L = 160 mm	AF	ZB0258 0002	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and dimensional drawings

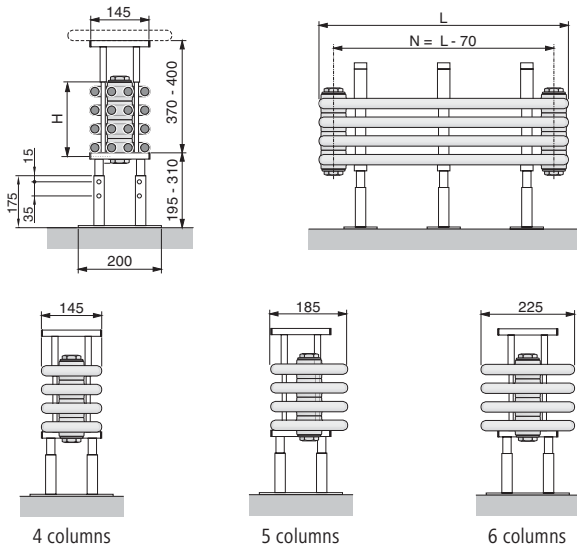
Accessories

Further information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH BENCH BRACKET ZB0032



H: height
L: length
N: hub distance

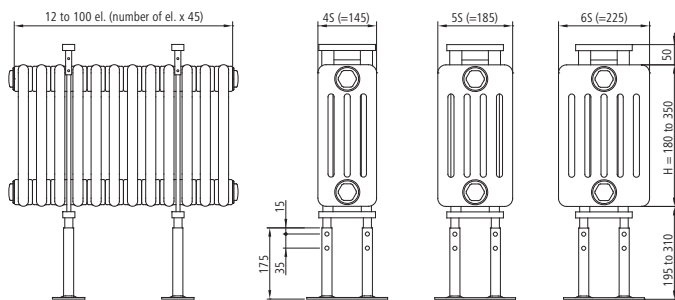
Special features:

- For bench radiators
- The number of fixing brackets must not be less than the minimum
- The brackets ZB0032 are included in the range available
- Brackets are lacquered (can also be delivered galvanised)
- Bench or shelf is not included in the range available
- Bench has to be fitted on site
- On the construction site, the floor building material has to be checked for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.



Height [mm]	Length [mm]	Number of brackets	
		AK I+II [pc.]	AK III [pc.]
180–315	1200	2	2
	1500–2000	3	4
	2500–3000	4	6

FIXING WITH BENCH BRACKET ZB0226



GL: element
H: height

Special features:

- For standard column radiators and Cambiotherm
- Possible up to and including height of 350 mm
- The number of fixing brackets must not be less than the minimum.
- Bench or shelf is not included in the range available
- Bench has to be fitted on site
- On the construction site, the floor building material has to be checked for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.



Height [mm]	AK I+II			AK III		
	Length from [el.]	Length to [el.]	Number of brackets [pc.]	Length from [el.]	Length to [el.]	Number of brackets [pc.]
180–350	12	25	2	12	25	2
	26	45	3	26	45	4
	46	65	4	46	65	6
	66	100	5	66	85	7
				86	100	8

Weight of the bench was not taken into account
Max. loading capacity of the bracket 500 kg (static).



FLOOR FIXINGS

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Bench bracket ZB0032	<ul style="list-style-type: none"> • Height adjustable • Distance from floor: 195–310 mm • For bench radiator with sill support • Profile: 25 x 25 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] – Galvanised [ZN] 	H (total)= 565–710 mm	AF	ZB0032 0002	86.25
			CF	ZB0032 1)	107.81
			SF	ZB0032 1)	107.81
			ZN	ZB0032 0001	73.05
Bench bracket ZB0226	<ul style="list-style-type: none"> • For column radiators up to a height of 350 mm with sill support • Height adjustable • Distance from floor: 195–310 mm • Profile: 25 x 25 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] – Galvanised [ZN] 	H (total) = 565–710 mm	AF	ZB0226 0002	85.33
			CF	ZB0226 1)	106.66
			SF	ZB0226 1)	106.66
			ZN	ZB0226 0001	77.57
Cover rosette ZB0033 0001	<ul style="list-style-type: none"> • For bench bracket ZB0032 installed on unfinished floor (2 pc. per bracket) • For support bracket ZB0340 and ZB0341 • Material: <ul style="list-style-type: none"> – White plastic 	56 x 56 mm opening: 25 x 25 mm	–	ZB0033 0001	2.32
Cover rosette ZB0034 0002	<ul style="list-style-type: none"> • Covers the entire floor slab • For bench bracket ZB0032 that is installed on finished floor • Material: <ul style="list-style-type: none"> – White plastic 	204 x 84 mm opening: 25 x 25 mm	–	ZB0034 0002	10.08

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

Fixing and
dimensional drawings

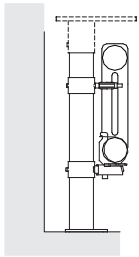
Accessories

Further
information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



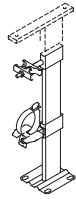
FIXING WITH SOIL STAND BRACKETS



Soil stand bracket
ZB0308

Available with
window sill support
ZC0105 / ZC0106 on request

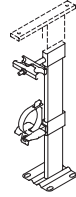
With carrier set
ZB0349



Soil stand bracket
ZB0308

Available with
window sill support
ZC0105 / ZC0106 on request

With carrier set
ZB0350

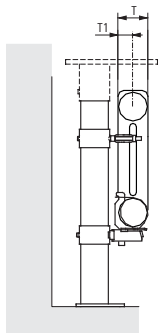


Special features:

- For standard column radiators and Sano radiators
- The number of fixing brackets must not be less than the minimum.
- Up to a length of 750 mm suitable for **requirement class 1, 2, and 3** (for installation on unfinished floor up to 900 mm).
- Up to a length of 1200 mm suitable for **requirement class 1 and 2**.
- Recommendation:
 - for finished floor:
pipe length = BH + 150 mm
 - for unfinished floor:
pipe length = BH + 300 mm.
- Combination with WVO radiation shields on request



Minimum number of soil stand brackets depending on the model and its length in elements according to VDI 6036 – requirement class 1, 2, and 3 (e.g. schools).



Number of columns	T [mm]	T1 [mm]
2 columns	65	32.5
3 columns	105	52.5
4 columns	145	72.5
5 columns	185	92.5
6 columns	225	112.5

AK I+II	AK III	Height [mm]	Height [mm]	Length Elements	Item and number of items		
					Soil stand bracket ZB0308	Carrier set for column radiators ZB0349	Carrier set for Sano radiators ZB0350
2–6 columns							
300–900	300–600	8–26			2x	2x	2x
		27–42			3x	3x	3x
		43–56			4x	4x	4x
		57–70			5x	5x	5x
		71–84			6x	6x	6x
		85–98			7x	7x	7x



FLOOR FIXINGS

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price [EUR]
		[4]	[17]	[3]	
Soil stand bracket ZB0308	<ul style="list-style-type: none"> • With floor slab 105 x 10 mm for screw mounting <ul style="list-style-type: none"> – Space between drill holes 80 mm • Rectangular pipe 60 x 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	H = 450 mm	AF	ZB0308 0001	17.61
			CF	ZB0308 ¹⁾	22.01
			SF	ZB0308 ¹⁾	22.01
		H = 550 mm	AF	ZB0308 0002	17.61
			CF	ZB0308 ¹⁾	22.01
			SF	ZB0308 ¹⁾	22.01
		H = 600 mm	AF	ZB0308 0003	17.61
			CF	ZB0308 ¹⁾	22.01
			SF	ZB0308 ¹⁾	22.01
		H = 650 mm	AF	ZB0308 0004	17.61
			CF	ZB0308 ¹⁾	22.01
			SF	ZB0308 ¹⁾	22.01
		H = 750 mm	AF	ZB0308 0005	17.61
			CF	ZB0308 ¹⁾	22.01
			SF	ZB0308 ¹⁾	22.01
		H = 850 mm	AF	ZB0308 0006	21.66
	CF	ZB0308 ¹⁾	27.08		
	SF	ZB0308 ¹⁾	27.08		
H = 900 mm	AF	ZB0308 0007	21.66		
	CF	ZB0308 ¹⁾	27.08		
	SF	ZB0308 ¹⁾	27.08		
H = 1050 mm	AF	ZB0308 0008	21.66		
	CF	ZB0308 ¹⁾	27.08		
	SF	ZB0308 ¹⁾	27.08		
H = 1200 mm	AF	ZB0308 0009	21.66		
	CF	ZB0308 ¹⁾	27.08		
	SF	ZB0308 ¹⁾	27.08		
Support set ZB0349, ZB0350	<ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • For column radiator • Comprising: <ul style="list-style-type: none"> – 1 carrier, top holder – 1 carrier lower hub intake, infinitely adjustable in depth – 1 adapter holder for 3 and 5 columns • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	A = 50–60 mm	AF	ZB0349 0001	40.63
			CF	ZB0349 ¹⁾	50.79
			SF	ZB0349 ¹⁾	50.79
	<ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • For Sano radiators • Comprising: <ul style="list-style-type: none"> – 1 carrier, top holder – 1 carrier lower hub intake, infinitely adjustable in depth – 1 adapter holder for 3 and 5 columns • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	A = 50–60 mm	AF	ZB0350 0001	47.41
			CF	ZB0350 ¹⁾	59.26
			SF	ZB0350 ¹⁾	59.26
Cover rosette ZB0373	<ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • For installation on unfinished floor • Material: <ul style="list-style-type: none"> – White plastic • Surface: <ul style="list-style-type: none"> – Finished in [CF], [SF] 	100 x 40 mm	–	ZB0373 0001	5.43
		Opening:	CF	ZB0373 ¹⁾	6.79
		60 x 10 mm	SF	ZB0373 ¹⁾	6.79
Cover rosette ZB0374	<ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • For finished floor mounting • Material: <ul style="list-style-type: none"> – White plastic • Surface: <ul style="list-style-type: none"> – Finished in [CF], [SF] 	115 x 110 mm	–	ZB0374 0001	11.50
		Opening:	CF	ZB0374 ¹⁾	14.38
		60 x 10 mm	SF	ZB0374 ¹⁾	14.38
Window sill support ZC0105, ZC0106	<ul style="list-style-type: none"> • For soil stand bracket 60 x 10 mm • Adjustment range 80–120 mm • Shelf (window sill) on site • Do not use as a seat • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 160 mm	AF	ZC0105 0001	21.66
			CF	ZC0105 ¹⁾	27.08
			SF	ZC0105 ¹⁾	27.08
		L = 200 mm	AF	ZC0106 0001	21.66
			CF	ZC0106 ¹⁾	27.08
			SF	ZC0106 ¹⁾	27.08

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)

When delivery unit is not specified, then delivery unit will be 1 pc.

General information

Model
Standard column radiators

Model
Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

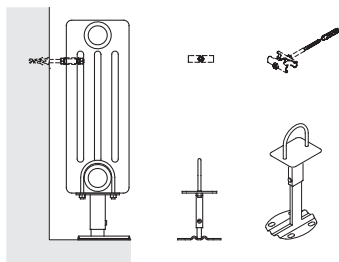
Fixing and
dimensional drawings

Accessories

Further
information



FIXING WITH LIFTING BRACKETS



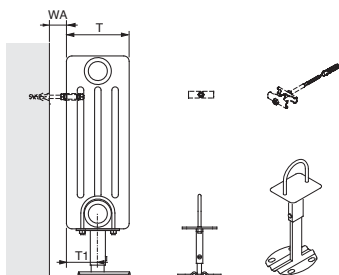
Top:
 Optionally available
 Bracket
 ZB0257 or ZB0258
 Bottom:
 Floor lifting brackets
 ZB0028

Special features:

- For standard column radiators and Sano radiators
- The number of fixing brackets must not be less than the minimum.
- For dimensions of column radiators outside the indicated ranges, the number of fixing points corresponds to the sum of the number of single blocks, or on request.
- **Requirement class 1 and 2**
 - As of a height of 600 mm, a holder ZB0257 or ZB0258 should be used if possible
- **Requirement class 3**
 - A wall support must always be used
- Please note the composition of the wall and the floor and carefully select the appropriate fixing variants, including dowels and screws.
- On the construction site, the wall and floor building material has to be checked for sufficient loading capacity.
- Where no information has been provided with the order regarding the requirement class or type / place of application, the brackets are always delivered acc. to requirement class 1 and 2.



Minimum number of lifting brackets depending on the model and its length in elements according to VDI 6036 – requirement class 1, 2, and 3 (e.g. schools).



Number of columns	T [mm]	T1 [mm]
2 columns	65	32.5
3 columns	105	52.5
4 columns	145	72.5
5 columns	185	92.5
6 columns	225	112.5

Height [mm]	Length Elements	Item and number of items	
		Floor lifting bracket ZB0028	Holder ZB0257 or ZB0258
2–3 columns			
190*–750	6–25	2x	2x
	26–50	3x	3x
	51–75	4x	4x
900–2000	76–90	5x	5x
	6–25	2x	2x
	26–50	3x	3x
2200–3000	51–60	4x	4x
	6–25	2x	2x
	26–60	3x	3x
4 columns			
190*–750	6–25	2x	2x
	26–50	3x	3x
	51–75	4x	4x
900–2000	76–90	5x	5x
	6–25	2x	2x
	26–50	3x	3x
2200–3000	6–25	3x	3x
	26–60	5x	5x
5 columns			
180*–750	6–25	2x	2x
	26–50	4x	4x
	51–75	5x	5x
900–2000	6–25	3x	3x
	26–50	5x	5x
	6–25	3x	3x
2200–3000	26–60	5x	5x
6 columns			
180*–750	6–25	2x	2x
	26–50	4x	4x
	51–75	5x	5x
900–2000	6–15	3x	3x
	16–30	5x	5x
	6–15	4x	4x
2200–3000	16–30	6x	6x

* The holders ZB0257 and ZB0258 are not suitable for heights of 180 mm and 190 mm.



FLOOR FIXINGS

Description Product code	Feature	Dimensions Order code	Surface/ Finish Order code	Product Model Order code	Price
		[4]	[17]	[3]	[EUR]
Floor lifting bracket ZB0028 	<ul style="list-style-type: none"> • Infinitely adjustable height • Rectangular pipe: 30 x 10 mm • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] – Galvanised [ZN] 	H = 200–230 mm	AF	ZB0028 0002	42.67
			CF	ZB0028 ¹⁾	53.34
			SF	ZB0028 ¹⁾	53.34
			ZN	ZB0028 0001	36.31
Bracket ZB0257– ZB0258 	<ul style="list-style-type: none"> • For standard column radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0257 0001	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28
		L = 160 mm	AF	ZB0257 0002	6.62
			CF	ZB0257 ¹⁾	8.28
			SF	ZB0257 ¹⁾	8.28
	<ul style="list-style-type: none"> • For Sano radiators • Infinitely adjustable depth • Surface: <ul style="list-style-type: none"> – Finished in [AF], [CF], [SF] 	L = 130 mm	AF	ZB0258 0001	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
		L = 160 mm	AF	ZB0258 0002	6.62
			CF	ZB0258 ¹⁾	8.28
			SF	ZB0258 ¹⁾	8.28
Cover rosette ZB0119 0001 	<ul style="list-style-type: none"> • For floor lifting bracket ZB0028 installed on unfinished floor • Material: <ul style="list-style-type: none"> – White plastic 	70 x 40 mm opening: 30 x 10 mm	–	ZB0119 0001	2.32
Cover rosette ZB0029 0001 	<ul style="list-style-type: none"> • For floor lifting bracket ZB0028 installed on finished floor • Material: <ul style="list-style-type: none"> – White plastic 	130 x 110 mm opening: 30 x 10 mm	–	ZB0029 0001	10.08

General information

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Standard column radiators

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Sano radiators

Model
Cambiotherm

Model
Bench radiators

Arbonia Individual

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information

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FIXING WITH BRACKET AND SUSPENSION LUGS

Number of suspension lugs

depending on the model and its length in elements according to VDI 6036 – requirement class 1 and 2. Requirement class 3 (e.g. schools) on request

Special features:

- Please note the composition of the wall and choose carefully the appropriate fixing versions as well as the dowels and screws.
- From 6 suspension lugs and
 - even number of elements: lugs arranged in the centre
 - uneven number of elements: centre lugs offset to the right (view from the front)



Order code Additional price per lug

16	[EUR]
B2	16.78

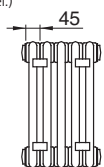
Number of columns	T [mm]	T1 [mm]
2 columns	65	32.5
3 columns	105	52.5
4 columns	145	72.5
5 columns	185	92.5
6 columns	225	112.5

Height [mm]	Length Elements	Number of suspension lugs
2 columns		
300–750	6–24	4
	25–44	6
	45–58	8
	59–72	10
	73–86	12
>750–2000	6–24	4
	25–44	6
	45–58	8
>2000–3000	59–64	10
>2000–3000	6–24	4
3–4 columns		
190 – 750	6–24	4
	25–44	6
	45–58	8
	59–72	10
	73–86	12
>750–2000	6–24	4
	25–44	6
>2000–3000	6–24	4
5 columns		
300–750	6–24	4
	25–44	8
	45–58	10
	59–64	12
>750–2000	6–24	4
	25–44	8
>2000–3000	6–24	6
6 columns		
>350–750	6–24	4
	25–44	8
	45–58	10
	59–64	12
>750–2000	6–24	4
	25–44	6
>2000–3000	6–24	6

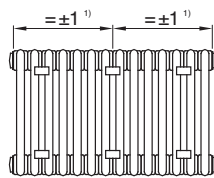
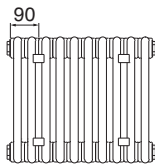
Distances of the suspension lugs (back view)

4 suspension lugs

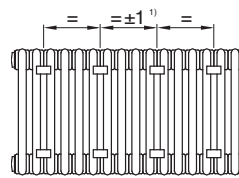
(up to 7 el.)



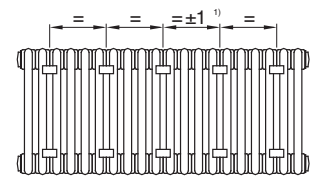
6 suspension lugs



8 suspension lugs

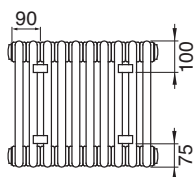


10 suspension lugs

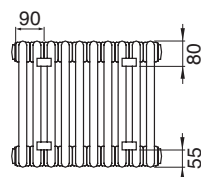


¹⁾ Depending on the total number of elements, one element more or one element less

2 columns



3 to 6 columns



ARBONIA COLUMN RADIATORS: ACCESSORIES



In the following section,
you will find:

- Accessories—fittings
- Accessories—additions
- Fitting accessories
- Covers
- Assembling aids



ACCESSORIES—FITTINGS

Description Product code	Feature	Dimensions ordering code 4	Surface/finish ordering code 17	Product Model Ordering code 3	Price [EUR]
Thermostatic sensor head ZV0073 0001	<ul style="list-style-type: none"> • Oventrop brand • For radiators with built-in valve • M30 x 1.5 • Design: <ul style="list-style-type: none"> – CR 	–	CR	ZV0073 0001	36.77
Upper part of the thermostat ZV0170 0001	<ul style="list-style-type: none"> • Standard • For thermostatic sensor head with M30 x 1.5 • For radiators with built-in valve • k_v value adjustable 	–	–	ZV0170 0001	8.83
Upper part of the thermostat ZV0005 0001	<ul style="list-style-type: none"> • Fine adjustment • For thermostatic sensor head with M30 x 1.5 • For radiators with built-in valve • k_v value adjustable 	–	–	ZV0005 0001	8.83
Upper part of the thermostat ZV0006 0001	<ul style="list-style-type: none"> • Standard • For thermostatic sensor head with clamp connection • For radiators with built-in valve • k_v value adjustable 	–	–	ZV0006 0001	14.13
Upper part of the thermostat ZV0007 0001	<ul style="list-style-type: none"> • Fine adjustment • For thermostatic sensor head with clamp connection • For radiators with built-in valve • k_v value adjustable 	–	–	ZV0007 0001	14.13
Air vent ZT0009 0001– ZT0009 0003	<ul style="list-style-type: none"> • With valve and rotatable outflow head • With O-ring seal • Surface: <ul style="list-style-type: none"> – Gloss nickel-plated • Surface of outflow head: <ul style="list-style-type: none"> – White 	G ¼"	White	ZT0009 0001	1.88
G ¾"		White	ZT0009 0002	5.12	
G ½"		White	ZT0009 0003	5.12	
Blanking plug ZT0008 0001– ZT0008 0002	<ul style="list-style-type: none"> • With O-ring seal • Width across flats 22 mm • Surface: <ul style="list-style-type: none"> – Gloss nickel-plated 	G ½"	–	ZT0008 0001	0.79
G ¾"		–	ZT0008 0002	0.79	
Valve shut-off block straight form ZV0040	<p>Comprising:</p> <ul style="list-style-type: none"> • Valve shut-off block <ul style="list-style-type: none"> – Straight – 50 mm axial distance – For connecting 2-pipe radiators to 1-pipe or 2-pipe systems (adjustable bypass) – With integrated valve for thermostat with M30 x 1.5 – For radiators with G ½" internal thread – Lockable and presettable – Flow and return freely selectable (note flow and return on radiator) – Self-sealing to radiator • Matching cover • Surface cover: <ul style="list-style-type: none"> – Finished in AF – CR – Stainless steel appearance 	G ½" external thread x G ¾" external thread	AF CR Stainless steel	ZV0040 0001 ZV0040 0002 ZV0040 0003	97.03 124.95 136.51

1) Dimensions characteristic |4|, Surface / Finish characteristic |17|, Surface / Colour characteristic |18/0| and Surface / Colour code characteristic |18| must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



ACCESSORIES-FITTINGS

Description Product code	Image	Feature	Dimensions ordering code	Surface/finish ordering code	Product Model Ordering code	Price
			4	17	3	[EUR]
Valve shut-off block angle form ZV0041		Comprising: <ul style="list-style-type: none"> Valve shut-off block <ul style="list-style-type: none"> Angled 50 mm axial distance For connecting 2-pipe radiators to 1-pipe or 2-pipe systems (adjustable bypass) With integrated valve for thermostat with M30 x 1.5 For radiators with G 1/2" internal thread Lockable and presettable Flow and return freely selectable (note flow and return on radiator) Self-sealing to radiator Matching cover Surface cover: <ul style="list-style-type: none"> Finished in AF CR Stainless steel appearance 	G 1/2" external thread x	AF	ZV0041 0001	97.03
				CR	ZV0041 0002	124.95
			G 3/4" external thread	Stainless steel	ZV0041 0003	136.51
Reducer ZT0010 0001		<ul style="list-style-type: none"> With O-ring seal For 2-pipe connections Surface: <ul style="list-style-type: none"> Gloss nickel-plated 	G 1/2" external thread x G 3/8" internal thread	–	ZT0010 0001	1.88
Reducer ZT0011 0001		<ul style="list-style-type: none"> Built-in valve (50 mm axial distance flow/return) Surface: <ul style="list-style-type: none"> Gloss nickel-plated 	G 1/2" external thread x G 3/4" external thread	–	ZT0011 0001	5.43

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1) Dimensions characteristic |4|, Surface / Finish characteristic |17|, Surface / Colour characteristic |18/0| and Surface / Colour code characteristic |18| must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FITTING ACCESSORIES

Description Product code	Feature	Dimensions ordering code	Surface/finish ordering code	Product Model Ordering code	Price [EUR]
		[4]	[17]	[3]	
Blanking plug with brim ZT0093	<ul style="list-style-type: none"> • Left-hand thread • Incl. EPDM seal • Surface: <ul style="list-style-type: none"> – Rough – Finished in AF , CF , SF 	L 1 ¼"	–	ZT0093 0001	2.21
		L 1 ¼"	AF	ZT0093 0002	5.00
		L 1 ¼"	CF	ZT0093 ¹⁾	6.25
		L 1 ¼"	SF	ZT0093 ¹⁾	6.25
Blanking plug with brim ZT0094	<ul style="list-style-type: none"> • Right-hand thread • Incl. EPDM seal • Surface: <ul style="list-style-type: none"> – Rough – Finished in AF , CF , SF 	R 1 ¼"	–	ZT0094 0001	2.21
		R 1 ¼"	AF	ZT0094 0002	5.00
		R 1 ¼"	CF	ZT0094 ¹⁾	6.25
		R 1 ¼"	SF	ZT0094 ¹⁾	6.25
Set of plugs with brim ZT0095	<ul style="list-style-type: none"> • Left-hand thread • Incl. EPDM seal • Surface: <ul style="list-style-type: none"> – Rough – Finished in AF , CF , SF 	L 1 ¼" x ¼"	–	ZT0095 0001	2.21
		L 1 ¼" x ¼"	AF	ZT0095 ¹⁾	5.29
		L 1 ¼" x ¼"	CF	ZT0095 ¹⁾	6.61
		L 1 ¼" x ¼"	SF	ZT0095 ¹⁾	6.61
		L 1 ¼" x ⅜"	–	ZT0095 0002	2.21
		L 1 ¼" x ⅜"	AF	ZT0095 0003	5.29
		L 1 ¼" x ⅜"	CF	ZT0095 ¹⁾	6.61
		L 1 ¼" x ⅜"	SF	ZT0095 ¹⁾	6.61
		L 1 ¼" x ½"	–	ZT0095 0004	2.21
		L 1 ¼" x ½"	AF	ZT0095 0005	5.29
		L 1 ¼" x ½"	CF	ZT0095 ¹⁾	6.61
		L 1 ¼" x ½"	SF	ZT0095 ¹⁾	6.61
		L 1 ¼" x ¾"	–	ZT0095 0006	2.21
		L 1 ¼" x ¾"	AF	ZT0095 0007	5.29
		L 1 ¼" x ¾"	CF	ZT0095 ¹⁾	6.61
		L 1 ¼" x ¾"	SF	ZT0095 ¹⁾	6.61
		L 1 ¼" x 1"	–	ZT0095 0008	2.21
		L 1 ¼" x 1"	AF	ZT0095 ¹⁾	5.29
		L 1 ¼" x 1"	CF	ZT0095 ¹⁾	6.61
		L 1 ¼" x 1"	SF	ZT0095 ¹⁾	6.61
Set of plugs with brim ZT0096	<ul style="list-style-type: none"> • Right-hand thread • Incl. EPDM seal • Surface: <ul style="list-style-type: none"> – Rough – Finished in AF , CF , SF 	R 1 ¼" x ¼"	–	ZT0096 0001	2.21
		R 1 ¼" x ¼"	AF	ZT0096 ¹⁾	5.29
		R 1 ¼" x ¼"	CF	ZT0096 ¹⁾	6.61
		R 1 ¼" x ¼"	SF	ZT0096 ¹⁾	6.61
		R 1 ¼" x ⅜"	–	ZT0096 0002	2.21
		R 1 ¼" x ⅜"	AF	ZT0096 0003	5.29
		R 1 ¼" x ⅜"	CF	ZT0096 ¹⁾	6.61
		R 1 ¼" x ⅜"	SF	ZT0096 ¹⁾	6.61
		R 1 ¼" x ½"	–	ZT0096 0004	2.21
		R 1 ¼" x ½"	AF	ZT0096 0005	5.29
		R 1 ¼" x ½"	CF	ZT0096 ¹⁾	6.61
		R 1 ¼" x ½"	SF	ZT0096 ¹⁾	6.61
		R 1 ¼" x ¾"	–	ZT0096 0006	2.21
		R 1 ¼" x ¾"	AF	ZT0096 0007	5.29
		R 1 ¼" x ¾"	CF	ZT0096 ¹⁾	6.61
		R 1 ¼" x ¾"	SF	ZT0096 ¹⁾	6.61
		R 1 ¼" x 1"	–	ZT0096 0008	2.21
		R 1 ¼" x 1"	AF	ZT0096 ¹⁾	5.29
		R 1 ¼" x 1"	CF	ZT0096 ¹⁾	6.61
		R 1 ¼" x 1"	SF	ZT0096 ¹⁾	6.61

1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)
When delivery unit is not specified, then delivery unit will be 1 pc.



FITTING ACCESSORIES

Description Product code	Image	Feature	Dimensions	Surface/finish	Product	Price
			ordering code	ordering code	Model	
			[4]	[17]	[3]	[EUR]
Set of plugs with brim ZT0097		<ul style="list-style-type: none"> • Right-hand thread • Incl. EPDM seal • Surface: <ul style="list-style-type: none"> – Rough – Finished in [AF], [CF], [SF] 	R 1 ¼" x ¾"	–	ZT0097 0001	5.29
			R 1 ¼" x ¾"	AF	ZT0097 0005	5.29
			R 1 ¼" x ¾"	CF	ZT0097¹⁾	6.61
			R 1 ¼" x ¾"	SF	ZT0097¹⁾	6.61
			R 1 ¼" x ½"	–	ZT0097 0002	5.29
			R 1 ¼" x ½"	AF	ZT0097 0006	5.29
			R 1 ¼" x ½"	CF	ZT0097¹⁾	6.61
			R 1 ¼" x ½"	SF	ZT0097¹⁾	6.61
			R 1 ¼" x ¾"	–	ZT0097 0003	5.29
			R 1 ¼" x ¾"	AF	ZT0097 0007	5.29
Set of plugs with brim ZT0098		<ul style="list-style-type: none"> • Right-hand thread • With 12 mm hole in the cut-off wheel for one-pipe valve • Incl. EPDM seal • Surface: <ul style="list-style-type: none"> – Rough – Finished in [AF], [CF], [SF] 	R 1 ¼" x ½"	–	ZT0098 0001	5.29
				AF	ZT0098 0002	5.29
				CF	ZT0098¹⁾	6.61
				SF	ZT0098¹⁾	6.61
Coupling set ZT0099 0001		<ul style="list-style-type: none"> • Comprising: <ul style="list-style-type: none"> – 2 seals – 2 nipples 	R 1 ¼" x L 1 ¼"	–	ZT0099 0001	3.09
Plug sealing ZT0024 0001		<ul style="list-style-type: none"> • For finished stock radiators • Flat seal suitable for plugs and reduction made of EPDM • Asbestos-free • Black brim 	52 x 41.8 x 2.25	–	ZT0024 0001	0.31
Coupling nipple seal ZT0025 0001		<ul style="list-style-type: none"> • For finished stock radiators • Flat seal • Asbestos-free • White brim 	55.4 x 41.5 x 1.5	–	ZT0025 0001	1.32
Key insert ZT0026 0001		<ul style="list-style-type: none"> • For finished stock radiators • Cover insert for tightening finished blanking plugs and reduction with WF41 (internal) • Suitable for WF46 (external) 	56 x 17	–	ZT0026 0001	3.10
Coupling tool ZT0027 0001, ZT0027 0002		<ul style="list-style-type: none"> • For on-site nipping of column radiators 	L = 750	–	ZT0027 0001	248.18
			L = 1250	–	ZT0027 0002	310.23

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1) Dimensions characteristic [4], Surface / Finish characteristic [17], Surface / Colour characteristic [18/0] and Surface / Colour code characteristic [18] must be specified with the order (description see section "General information" and colour chart)

When delivery unit is not specified, then delivery unit will be 1 pc.



ACCESSORIES—FITTINGS

Description Product code	Feature	Dimensions ordering code 4	Surface/finish ordering code 17	Product Model Ordering code 3	Price [EUR]
Towel rail ZC0009	<ul style="list-style-type: none"> Comprising: <ul style="list-style-type: none"> 2 holders (ZC0010 0001) Flat pipe 1000 x 30 x 10 mm (to be cut to length on site if necessary) Surface of holder: <ul style="list-style-type: none"> CR Surface of steel pipe: <ul style="list-style-type: none"> Finished in AF , CF , SF 	L = 1000 mm T = 45 mm, projecting	AF	ZC0009 0002	150.15
			CF	ZC0009 ¹⁾	187.69
			SF	ZC0009 ¹⁾	187.69
			CR	ZC0009 0001	228.02
Bracket ZC0010	<ul style="list-style-type: none"> For towel rail ZC0009 Comprising: <ul style="list-style-type: none"> 2 piece Surface of holder: <ul style="list-style-type: none"> CR 	—	CR	ZC0010 0001	114.63

COVERS

Description Product code	Feature	Dimensions ordering code 4	Surface/finish ordering code 17	Product Model Ordering code 3	Price [EUR]
Cap set ZA0092 0001	<ul style="list-style-type: none"> For screws with width across flats of 13 mm Comprising: <ul style="list-style-type: none"> 12 caps Material/surface: <ul style="list-style-type: none"> White 	White	—	ZA0092 0001	2.08
Cap set ZA0092 0002	<ul style="list-style-type: none"> For screws with width across flats of 13 mm Comprising: <ul style="list-style-type: none"> 12 caps Material/surface: <ul style="list-style-type: none"> RAL 7024 	RAL 7024	—	ZA0092 0002	2.08

ASSEMBLING AIDS

Description Product code	Feature	Dimensions ordering code 4	Surface/finish ordering code 17	Product Model Ordering code 3	Price [EUR]
Touch-up pen ZK0010 0001	<ul style="list-style-type: none"> For repairing paint damage on finished or powder-coated radiators 12 ml SG silk gloss 	RAL 9016	—	ZK0010 0001	8.52
Paint spray can ZK0016 0001	<ul style="list-style-type: none"> Original paint for repairing paint damage on finished or powder-coated radiators 150 ml SG silk gloss 	RAL 9016	—	ZK0016 0001	12.48
Cleaning brush ZK0005 0001	<ul style="list-style-type: none"> For column radiators 	—	—	ZK0005 0001	23.27

1) Dimensions characteristic |4|, Surface / Finish characteristic |17|, Surface / Colour characteristic |18/0| and Surface / Colour code characteristic |18| must be specified with the order (description see section "General information" and colour chart)

When delivery unit is not specified, then delivery unit will be 1 pc.

ARBONIA COLUMN RADIATORS: FURTHER INFORMATION

In the following section,
you will find:

- k_v assignment



**K_v ASSIGNMENT FOR COLUMN RADIATORS WITH TWO COLUMNS**

Height [mm]	2-column				
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
190	1-46	47-101	102-120		
260	1-34	35-76	77-107	108-120	
300	1-29	30-64	65-90	91-107	108-120
350	1-25	26-55	56-78	79-93	94-120
400	1-22	23-48	49-68	69-81	82-120
450	1-19	20-43	44-61	62-73	74-120
500	1-17	18-39	40-55	56-66	67-120
550	1-16	17-35	36-50	51-60	61-120
600	1-15	16-33	34-47	48-56	57-120
750	1-12	13-27	28-38	39-45	46-100
900	1-10	11-22	23-32	33-38	39-84
1000	1-9	10-20	21-29	30-34	35-76
1100	1-8	9-19	20-26	27-32	33-70
1200	1-7	8-17	18-24	25-29	30-64
1500	1-6	7-14	15-19	20-23	24-51
1800	1-5	6-11	12-16	17-19	20-47
2000	1-4	5-10	11-15	16-17	18-39
2200	1-4	5-9	10-13	14-16	17-36
2500	1-3	4-8	9-12	13-14	15-31
2800	1-3	4-7	8-10	11-12	13-28
3000	1-3	4-7	8-10	11-12	13-26

K_v ASSIGNMENT FOR COLUMN RADIATORS WITH THREE COLUMNS

Height [mm]	3 columns				
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
190	1-34	35-76	77-107	108-120	
260	1-25	26-54	55-78	79-93	94-120
300	1-21	22-46	47-65	66-78	79-120
350	1-18	19-40	41-57	58-67	68-120
400	1-16	17-35	36-50	51-60	61-120
450	1-14	15-32	33-44	45-53	54-118
500	1-13	14-29	30-40	41-48	49-107
550	1-12	13-26	27-37	38-44	45-97
600	1-11	12-24	25-34	35-40	41-90
750	1-9	10-19	20-28	29-33	34-75
900	1-7	8-16	17-23	24-28	29-61
1000	1-6	7-15	16-21	22-25	26-56
1100	1-6	7-13	14-19	20-23	24-51
1200	1-5	6-12	13-17	18-21	22-47
1500	1-4	5-10	11-14	15-17	18-38
1800	1-4	5-8	9-12	13-14	15-32
2000	1-3	4-8	9-11	12-13	14-30
2200	1-3	4-7	8-10	11-12	13-27
2500	1-3	4-6	7-9	10-11	12-24
2800	1-2	3-6	7-8	9-10	11-22
3000	1-2	3-5	6-8	9	10-21

Presetting



5.5 (yellow)



2.5 (white)



4.5 (red)



6 (black)



8 (blue)


K_v ASSIGNMENT FOR COLUMN RADIATORS WITH FOUR COLUMNS

4 columns					
Height [mm]	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
190	1-26	27-58	59-81	82-97	98-120
260	1-19	20-42	43-59	60-70	71-120
300	1-16	17-35	36-50	51-60	61-120
350	1-14	15-31	32-44	45-52	53-115
400	1-12	13-27	28-39	40-46	47-102
450	1-11	12-24	25-35	36-41	42-91
500	1-10	11-22	23-31	32-37	38-82
550	1-9	10-20	21-29	30-34	35-76
600	1-8	9-19	20-26	27-32	33-70
750	1-7	8-15	16-21	22-25	26-56
900	1-6	7-13	14-18	19-22	23-48
1000	1-5	6-11	12-16	17-20	21-44
1100	1-4	5-10	11-15	16-18	19-40
1200	1-4	5-10	11-14	15-17	18-37
1500	1-3	4-8	9-11	12-13	14-30
1800	1-3	4-7	8-9	10-11	12-28
2000	1-2	3-6	7-9	10	11-23
2200	1-2	3-5	6-8	9	10-21
2500	1-2	3-5	6-7	8	9-19
2800	1-2	3-4	5-6	7-8	9-17
3000	1-2	3-4	5-6	7	8-16

K_v ASSIGNMENT FOR COLUMN RADIATORS WITH FIVE COLUMNS

5 columns					
Height [mm]	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
190	1-22	23-48	49-68	69-81	82-100
260	1-15	16-34	35-49	50-58	59-100
300	1-13	14-29	30-40	41-48	49-100
350	1-11	12-25	26-35	36-42	43-93
400	1-10	11-22	23-31	32-37	38-83
450	1-9	10-20	21-28	29-34	35-75
500	1-8	9-18	19-25	26-30	31-67
550	1-7	8-16	17-23	24-28	29-61
600	1-7	8-15	16-22	23-26	27-57
750	1-5	6-12	13-17	18-21	22-46
900	1-4	5-10	11-15	16-18	19-39
1000	1-4	5-9	10-13	14-16	17-36
1100	1-4	5-9	10-12	13-15	16-33
1200	1-3	4-8	9-11	12-14	15-30
1500	1-3	4-6	7-9	10-11	12-25
1800	1-2	3-5	6-8	9	10-21
2000	1-2	3-5	6-8	9	10-19
2200	1-2	3-4	5-7	8	9-18
2500	1-2	3-4	5-6	7	8-16
2800	1	2-4	5	6	7-15
3000	1	2-3	4-5	6	7-14

For lengths without assignment no valves can be used since the product size exceeds the performance limit of the valve.

Presetting	5.5 (yellow)	2.5 (white)	4.5 (red)	6 (black)	8 (blue)
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K_v ASSIGNMENT FOR COLUMN RADIATORS WITH SIX COLUMNS

Height [mm]	6 columns				
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
190	1-17	18-39	40-55	56-66	67-100
260	1-13	14-29	30-40	41-48	49-100
300	1-11	12-24	25-35	36-41	42-91
350	1-9	10-21	22-30	31-36	37-80
400	1-8	9-19	20-27	28-32	33-71
450	1-7	8-17	18-24	25-29	30-64
500	1-7	8-15	16-22	23-26	27-57
550	1-6	7-14	15-20	21-24	25-52
600	1-6	7-13	14-18	19-22	23-48
750	1-4	5-10	11-15	16-18	19-40
900	1-4	5-9	10-13	14-15	16-34
1000	1-3	4-8	9-11	12-14	15-31
1100	1-3	4-7	8-10	11-13	14-28
1200	1-3	4-7	8-10	11-12	13-26
1500	1-2	3-5	6-8	9	10-21
1800	1-2	3-5	6-7	8	9-18
2000	1-2	3-4	5-6	7	8-16
2200	1	2-4	5	6-7	8-15
2500	1	2-3	4-5	6	7-14
2800	1	2-3	4	5	6-12
3000	1	2-3	4	5	6-12

Presetting	5.5 (yellow)	2.5 (white)	4.5 (red)	6 (black)	8 (blue)
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K_v ASSIGNMENT FOR SANO RADIATORS WITH TWO COLUMNS

Height [mm]	2-column				
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
260	1-34	35-76	77-107	108-120	
300	1-29	30-64	65-90	91-107	108-120
350	1-25	26-55	56-78	79-93	94-120
400	1-22	23-48	49-68	69-81	82-120
450	1-19	20-43	44-61	62-73	74-120
500	1-17	18-39	40-55	56-66	67-120
550	1-16	17-35	36-50	51-60	61-120
600	1-15	16-33	34-47	48-56	57-120
750	1-12	13-27	28-38	39-45	46-100
900	1-10	11-22	23-32	33-38	39-84
1000	1-9	10-20	21-29	30-34	35-76
1100	1-8	9-19	20-26	27-32	33-70
1200	1-7	8-17	18-24	25-29	30-64
1500	1-6	7-14	15-19	20-23	24-51
1800	1-5	6-11	12-16	17-19	20-47
2000	1-4	5-10	11-15	16-17	18-39
2200	1-4	5-9	10-13	14-16	17-36
2500	1-3	4-8	9-12	13-14	15-31
2800	1-3	4-7	8-10	11-12	13-28
3000	1-3	4-7	8-10	11-12	13-26

General information

 Model
Standard column radiators

 Model
Sano radiators

K_v ASSIGNMENT FOR SANO RADIATORS WITH THREE COLUMNS

Height [mm]	3 columns				
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
260	1-25	26-54	55-78	79-93	94-120
300	1-21	22-46	47-65	66-78	79-120
350	1-18	19-40	41-57	58-67	68-120
400	1-16	17-35	36-50	51-60	61-120
450	1-14	15-32	33-44	45-53	54-118
500	1-13	14-29	30-40	41-48	49-107
550	1-12	13-26	27-37	38-44	45-97
600	1-11	12-24	25-34	35-40	41-90
750	1-9	10-19	20-28	29-33	34-75
900	1-7	8-16	17-23	24-28	29-61
1000	1-6	7-15	16-21	22-25	26-56
1100	1-6	7-13	14-19	20-23	24-51
1200	1-5	6-12	13-17	18-21	22-47
1500	1-4	5-10	11-14	15-17	18-38
1800	1-4	5-8	9-12	13-14	15-32
2000	1-3	4-8	9-11	12-13	14-30
2200	1-3	4-7	8-10	11-12	13-27
2500	1-3	4-6	7-9	10-11	12-24
2800	1-2	3-6	7-8	9-10	11-22
3000	1-2	3-5	6-8	9	10-21

 Model
Cambiotherm

 Model
Bench radiators

Arbonia Individual

 Fixing and
dimensional drawings

Accessories

 Further
information

Presetting



5.5 (yellow)



2.5 (white)



4.5 (red)



6 (black)



8 (blue)



K_v ASSIGNMENT FOR SANO RADIATORS WITH FOUR COLUMNS

Height [mm]	4 columns				
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
260	1-19	20-42	43-59	60-70	71-120
300	1-16	17-35	36-50	51-60	61-120
350	1-14	15-31	32-44	45-52	53-115
400	1-12	13-27	28-39	40-46	47-102
450	1-11	12-24	25-35	36-41	42-91
500	1-10	11-22	23-31	32-37	38-82
550	1-9	10-20	21-29	30-34	35-76
600	1-8	9-19	20-26	27-32	33-70
750	1-7	8-15	16-21	22-25	26-56
900	1-6	7-13	14-18	19-22	23-48
1000	1-5	6-11	12-16	17-20	21-44
1100	1-4	5-10	11-15	16-18	19-40
1200	1-4	5-10	11-14	15-17	18-37
1500	1-3	4-8	9-11	12-13	14-30
1800	1-3	4-7	8-9	10-11	12-28
2000	1-2	3-6	7-9	10	11-23
2200	1-2	3-5	6-8	9	10-21
2500	1-2	3-5	6-7	8	9-19
2800	1-2	3-4	5-6	7-8	9-17
3000	1-2	3-4	5-6	7	8-16

K_v ASSIGNMENT FOR SANO RADIATORS WITH FIVE COLUMNS

Height [mm]	5 columns				
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]
260	1-15	16-34	35-49	50-58	59-100
300	1-13	14-29	30-40	41-48	49-100
350	1-11	12-25	26-35	36-42	43-93
400	1-10	11-22	23-31	32-37	38-83
450	1-9	10-20	21-28	29-34	35-75
500	1-8	9-18	19-25	26-30	31-67
550	1-7	8-16	17-23	24-28	29-61
600	1-7	8-15	16-22	23-26	27-57
750	1-5	6-12	13-17	18-21	22-46
900	1-4	5-10	11-15	16-18	19-39
1000	1-4	5-9	10-13	14-16	17-36
1100	1-4	5-9	10-12	13-15	16-33
1200	1-3	4-8	9-11	12-14	15-30
1500	1-3	4-6	7-9	10-11	12-25
1800	1-2	3-5	6-8	9	10-21
2000	1-2	3-5	6-8	9	10-19
2200	1-2	3-4	5-7	8	9-18
2500	1-2	3-4	5-6	7	8-16
2800	1	2-4	5	6	7-15
3000	1	2-3	4-5	6	7-14

For lengths without assignment no valves can be used since the product size exceeds the performance limit of the valve.

Presetting	5.5 (yellow)	2.5 (white)	4.5 (red)	6 (black)	8 (blue)
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K_v ASSIGNMENT FOR SANO RADIATORS WITH SIX COLUMNS

Height [mm]	6 columns					Length [el.]
	Length [el.]	Length [el.]	Length [el.]	Length [el.]	Length [el.]	
260	1-13	14-29	30-40	41-48	49-100	
300	1-11	12-24	25-35	36-41	42-91	
350	1-9	10-21	22-30	31-36	37-80	
400	1-8	9-19	20-27	28-32	33-71	
450	1-7	8-17	18-24	25-29	30-64	
500	1-7	8-15	16-22	23-26	27-57	
550	1-6	7-14	15-20	21-24	25-52	
600	1-6	7-13	14-18	19-22	23-48	
750	1-4	5-10	11-15	16-18	19-40	
900	1-4	5-9	10-13	14-15	16-34	
1000	1-3	4-8	9-11	12-14	15-31	
1100	1-3	4-7	8-10	11-13	14-28	
1200	1-3	4-7	8-10	11-12	13-26	
1500	1-2	3-5	6-8	9	10-21	
1800	1-2	3-5	6-7	8	9-18	
2000	1-2	3-4	5-6	7	8-16	
2200	1	2-4	5	6-7	8-15	
2500	1	2-3	4-5	6	7-14	
2800	1	2-3	4	5	6-12	
3000	1	2-3	4	5	6-12	

General information

 Model
Standard column radiators

 Model
Sano radiators

 Model
Cambiotherm

 Model
Bench radiators

Arbonia Individual

 Fixing and
dimensional drawings

Accessories

 Further
information

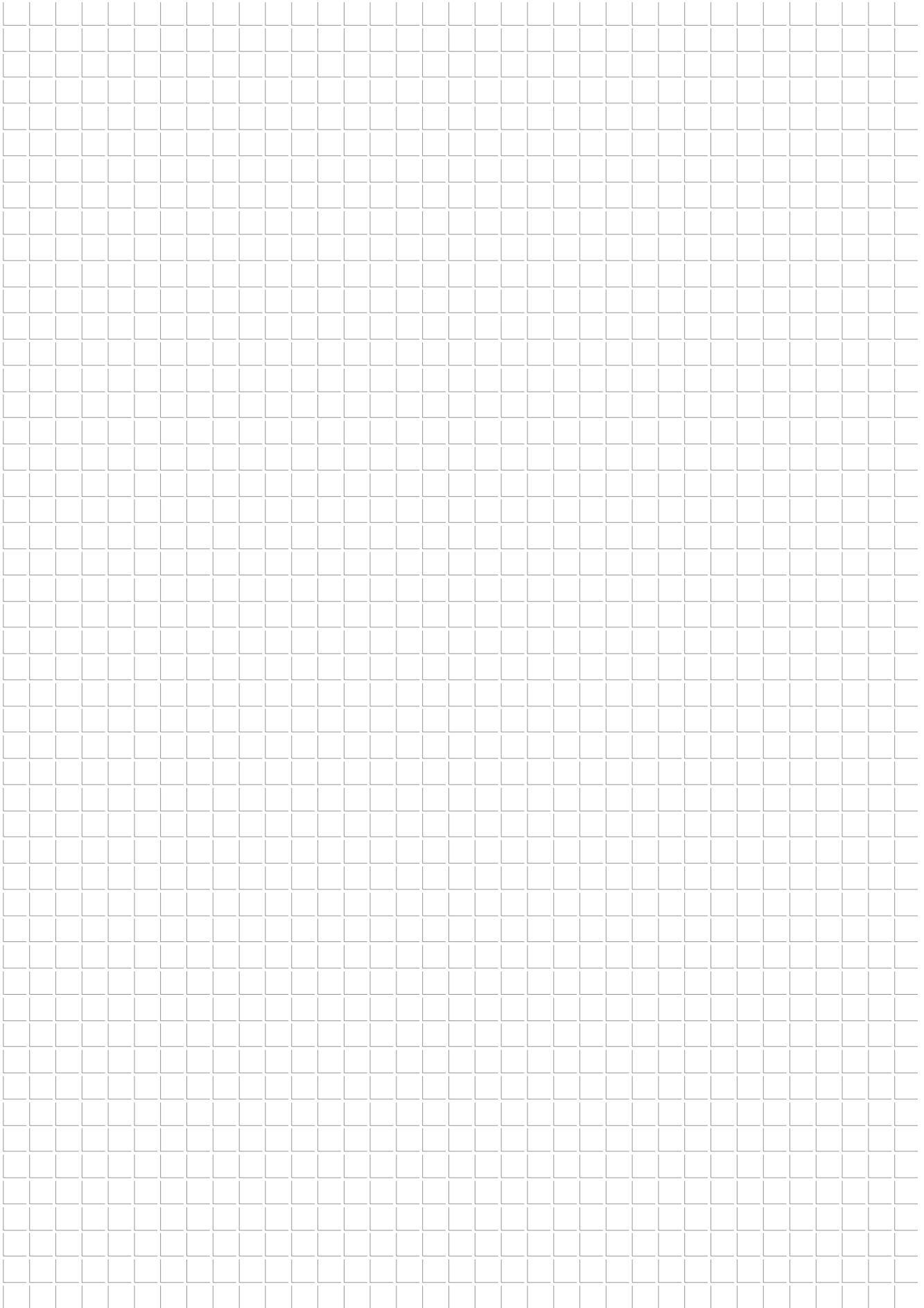
Presetting	5.5 (yellow)	2.5 (white)	4.5 (red)	6 (black)	8 (blue)
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Large grid area for notes.



	General information
	Model Standard column radiators
	Model Sano radiators
	Model Cambiotherm
	Model Bench radiators
	Arbonia Individual
	Fixing and dimensional drawings
	Accessories
	Further information



HEAT FOR THE EYE: ARBONIA COLOURS.

Extract from the extensive colour range – additional colours on request

Standard



traffic white
AF RAL 9016

Arbonia special colour



bright silver
CF GLS

AF All-Finish RAL 9016

CF Color Finish
RAL classic or sanitary colours, selected DB and NCS colours, special colour bright silver

SF Super Finish
Further DB or NCS colours, colours of choice, Arbonia special colours

For production reasons, paint finishes on steel bases are subject to the slight colour variations that are common in the industry and caused in part by specific light conditions (especially in the case of metallic paint finishes).

There may also be differences when comparing lacquered steel surfaces (radiators) with lacquered ceramic products.

Because of the limitations of the printing process, the colour illustrations are not binding.

RAL

See RAL colour chart



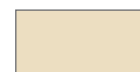
Sanitary equipment



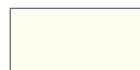
bahama
CF BAH



manhattan
CF MAN



jasmine
CF JAS



edelweiss
CF EWE



pergamon
CF PER



aegean
CF AEG



natura
CF NAT



calypso
CF CAL



greenwich
CF GRW

"New Inspirations"

Beyond the familiar, extensive colour spectrum, Arbonia is introducing 18 modern accents to the "Fresh", "Warm", and "Cool" categories with its original "New Inspirations" colour concept.

* fine structure **pearl glimmer

FRESH



BAMBOO
CF NIC F 004



SKY BLUE
CF NIC F 001**



PAPAYA
CF NIC F 005



DEEP OCEAN
CF NIC F 002**



CHERRY
CF NIC F 006



AMAZONAS
CF NIC F 003**

WARM



SUNNYDAY
CF NIC W 004*



IVORY
CF NIC W 001*



CHILI
CF NIC W 005*



CURRY
CF NIC W 002*



REED
CF NIC W 006*



sahara
CF NIC W 003*

COOL



IRON SF
CF NIC C 004**



SNOW
CF NIC C 001*



SLATE
CF NIC C 005*



ICE BLUE
CF NIC C 002*



ONYX
CF NIC C 006*



ARCTIC BLUE
CF NIC C 003**



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