

**AIRCOR FLEX PE CORRUGATED PIPE\_TECHNICAL DATA SHEET**

Double wall polyethylene pipes, manufactured by means of continuous wall co-extrusion, designed for air transport in civil and industrial installations of HVAC systems. Its internal surface is smooth and its external surface is corrugated.

The internal surface is made of white 100% virgin polyethylene, with specific antistatic and antibacterial agents against the risks of dust deposit and bacterial and fungal proliferation, certified by an accredited third-party laboratory. The external surface shall be manufactured in white 100 % virgin polyethylene with a high resistance to UV radiations.

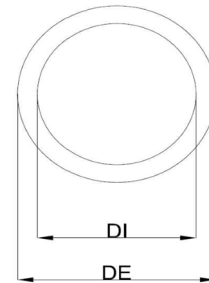
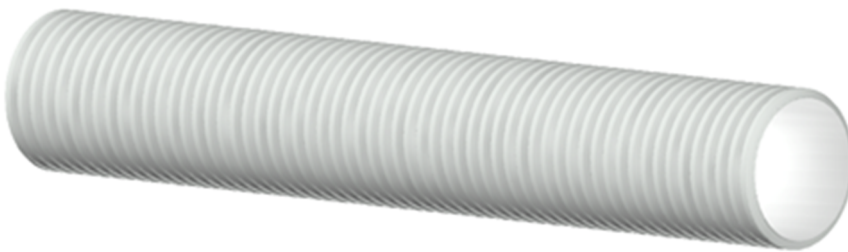
The pipe has an external nominal diameter DN/OD..... mm and a 450N nominal stiffness, tested according to norm CEI EN 61386-1/-24.

The pipe is manufactured by a company operating under quality standards certified according to UNI EN ISO 9001:2015, and with an environmental management system certified according to UNI EN 14001:2015. The marking shall bear the data for the product traceability in full and may be customisable upon clients' request.

The pipes shall be supplied in coils equipped with end caps, wrapped individually.

Pipes can be connected by fittings and special elastomeric seal gaskets in EPDM, manufactured in compliance with European norm EN 681-1, to be positioned at the pipe extremity, in the first groove between corrugations

**Marking:** Ø \_ ..... \_ \_ \_ gg \_ mm \_ aa \_ \_ ora \_ min \_ N \_450 \_ UV\_SANITIZED



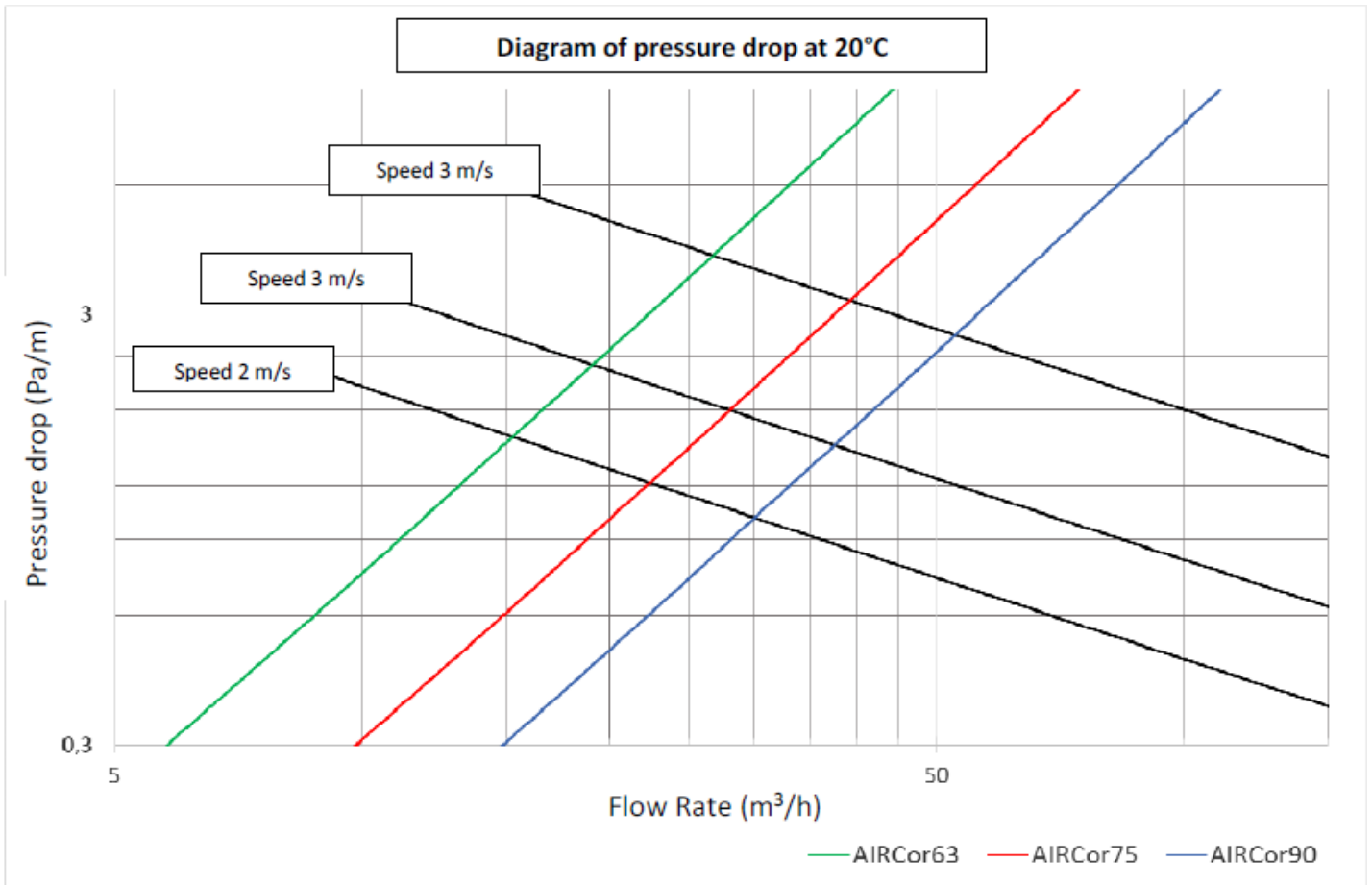
Product code	AIRCor 63	AIRCor 75	AIRCor 90
External diameter (DE) (mm)	63 (+ 1.5)	75 (+ 1.5)	90 (+1.5)
Internal diameter (DI) (mm)	51 (±1)	63 (±1)	76 (±1)
Electrical characteristics	ANTISTATIC		
Bacterial characteristics	ANTIBACTERIAL ANTIFUNGAL SANITIZED		
Chemical characteristics	HALOGEN FREE		
External wall material	HDPE		
Internal wall material	MDPE		
Average bending radius (mm)	220	270	330
Ring stiffness EN 61386-1/-24 (N)	≥ 450		
Impact resistance EN 61386-1/-24 (J)	20		
Minimum operative temperature (°C)	- 20		
Maximum operative temperature (°C)	+ 60		
Reaction to fire classification (UNI EN 13501)	Euroclass E		
Internal ondulation	< 5 %		

Diameter	Roll size Height – Length – Depth (cm)	WEIGHT KG	Pallet dimensions Height – Length - Depth (cm)	Rolls on a pallet
DN 63	38 X 90 X 90	13	115 X 200 X 100	7
DN 75	36 X 117 X 117	15	255 X 117 X 117	7
DN 90	40 X 120 X 120	21	255 X 120 X 120	6

Each roll is closed with caps at the ends of the tube

# FLUID DYNAMIC PERFORMANCE

Velocity	Characteristic	AIRCor 63	AIRCor 75	AIRCor 90
1,0 m/s	Capacity (m <sup>3</sup> /h)	7,4	11,3	15,1
	Distributed pressure drop (Pa/m)	0,5	0,4	0,3
1,5 m/s	Capacity (m <sup>3</sup> /h)	11,2	17,0	22,6
	Distributed pressure drop (Pa/m)	0,9	0,7	0,6
2 m/s	Capacity (m <sup>3</sup> /h)	14,9	22,7	30,1
	Distributed pressure drop (Pa/m)	1,5	1,2	1,0
2,5 m/s	Capacity (m <sup>3</sup> /h)	18,6	28,3	37,7
	Distributed pressure drop (Pa/m)	2,3	1,7	1,4
3 m/s	Capacity (m <sup>3</sup> /h)	22,3	34,0	45,2
	Distributed pressure drop (Pa/m)	3,2	2,4	2,0
3,5 m/s	Capacity (m <sup>3</sup> /h)	26,0	39,7	52,7
	Distributed pressure drop (Pa/m)	4,1	3,2	2,6

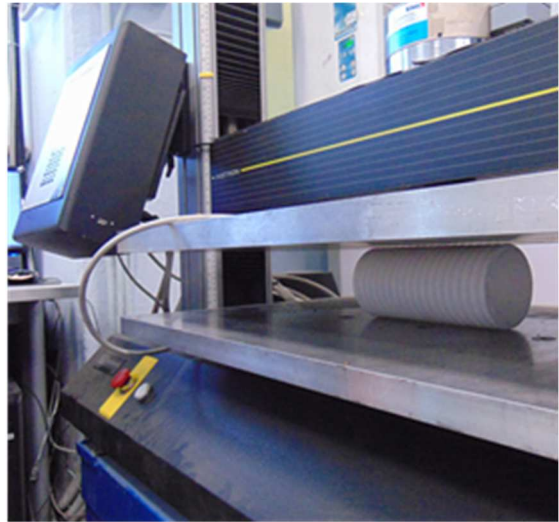


## QUALITY PLAN

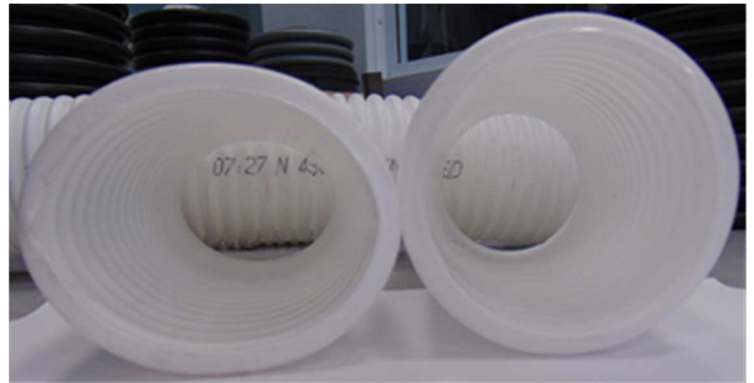


Aircor pipe is tested according to the standard CEI EN 61386-1/-24 to check the ring stiffness with a 5% deformation, higher than 450 N

Aircor pipe is tested according to the standard CEI EN 61386-1/-24 to check the impact resistance.



Aircor pipe is tested according to the standard EN ISO 9969 to check deflection with a deformation than 3% the pipe shows no damage to the internal and external wall.



Aircor pipe is tested according to the standard CEI EN 61386-1/-24 to check bendability and is subject to high and low temperature stress bending tests.