



AR10 Therm MasterSan™

Flexible hose made of polyester fabric coated with additivated polyolefin resins, anti-bacterial/anti-mildew master and steel wire helix. Thermo-insulating covering in polyester fibre (thickness 25mm/16kg/m³), outer aluminized film protection (flame retardant).

Insulation: 25mm / 16kg/m³ - standard
50mm / 16kg/m³ - on request

MasterSan™
in collaboration with:



Thermal resistivity at 20°C **R = 0,58m² K/W (UNI EN 12664:2002)**

TECHNICAL SPECIFICATIONS AND USAGE LIMIT

COLOR	LENGTH	PRODUCTION DIAMETERS	WORKING TEMPERATURE	CURVATURE RADIUS	AIR SPEED	PRESSURE
Internal hose Grey - Sheath Aluminium	10 m standard	from 80 to 610 mm	-20°C / +90°C (peak +110°C)	0,8 - 1,5 x Ø	max 32 m/sec	max 250 mmH ₂ O

PRODUCTION DIAMETERS

80	89*	102	110*	121*	127	133*	140*	152	160	180	203
228*	254	279*	305	318	356	406	457*	508	559*	610	

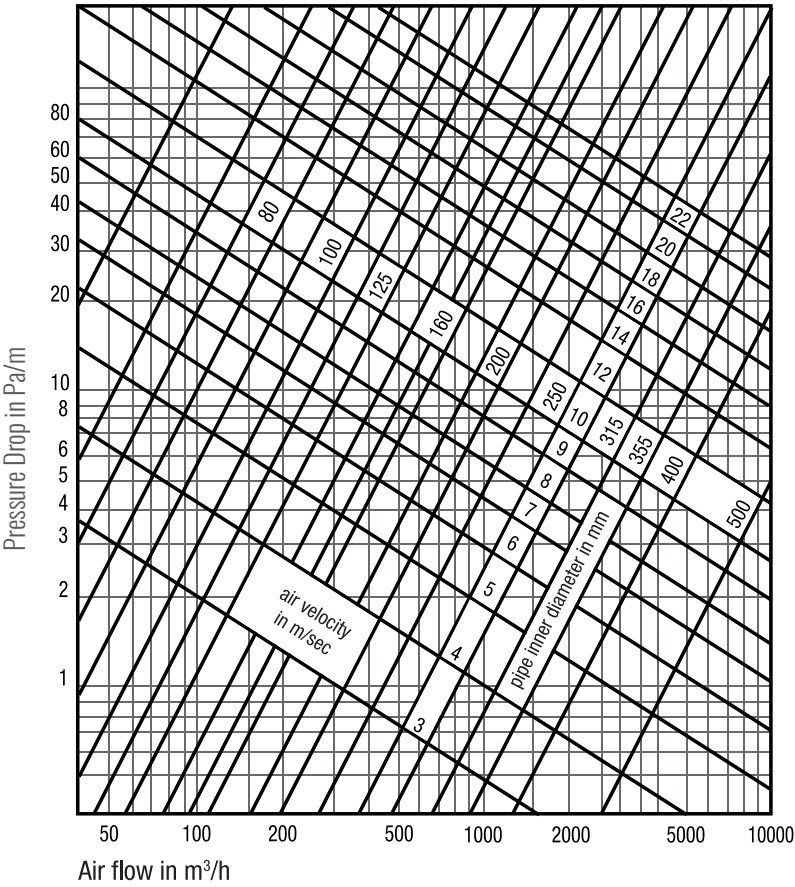
*Diameters available on request

Diameters other than those indicated are available by prior feasibility check

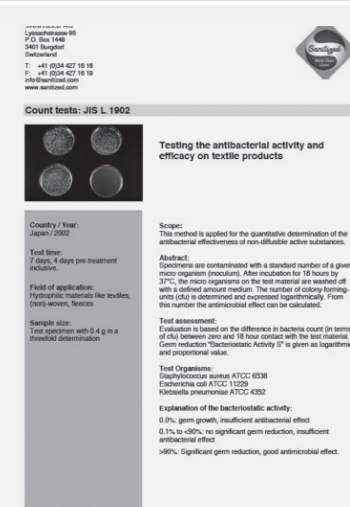
PRESSURE DROPS DIAGRAM (Air temperature 20°C)

PRESSURE DROPS TABLE WITH CALCULATION EXAMPLES

To calculate the flow rates and pressure drops of other diameters, use the beside diagram.



DIAMETERS	AIR SPEED 8m/s		AIR SPEED 10m/s	
	FLOW RATE	PRESSURE DROP	FLOW RATE	PRESSURE DROP
[mm]	[m3/h]	[Pa/m]	[m3/h]	[Pa/m]
80	152	19	190	31
102	250	15	333	24
127	383	12	368	18
160	575	8	773	14
203	900	7	1151	11
254	1445	5	1843	8
318	2278	4	3105	6
356	3058	3	3850	5
406	3845	3	4590	4
508	5111	2	8223	3

CERTIFICATIONS		
SANITIZATION		FIRE REACTION
 SANITIZED TECHNOLOGY MasterSan™ is produced with new generation polyolefin film with the addition of “Sanitized Antibacterial” active ingredient capable of reducing the microbial and bacterial load presents inside the ducts and conveyed by the air, for the environment and man’s safety.   	IT	Class 1 (D.M. 26/06/84)
	EU	Inner tube and vapor barrier: B-s1, d0 (EN 13823:2010) Thermal insulation: B-s2, d0 (UNI EN 13501-1:2009)

GREEN BUILDING

Thanks also to the support of GreenMap, products manufactured by Tecnica srl contribute to obtain the credits of the major international rating systems for sustainable buildings:

 LEED Contributes to credits: IP, EA, MR	 WELL Contributes to credits: MATERIALS, COMMUNITY	 BREEAM Contributes to credits: MAN, ENE, WST
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For further details regarding the specific contributions to the credits indicated, contact Tecnica srl

APPLICATIONS								
								
OEM	Residential	Flexibility	Easy Pack	Self-extinguishing	Mold Resistant	Microorganism Resistant	Tear Resistant	Calibrated Diameters*
								
REACH Certifie	RoHS Certifie	Halogen Free	Compact Version*	Industry	Building	Air Conditioning	CMV	Non-magnetic*
								
CMV transp. Means	CMV Mech. Means	Prolonged anti condensation	Recreational Boats					

*on request