



AR10 Therm MasterSan™

Flexible hose made of addivated polyolefin resins film reinforced with polyester mesh with anti-bacterial, anti-mildew and anti-viral material protection with 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

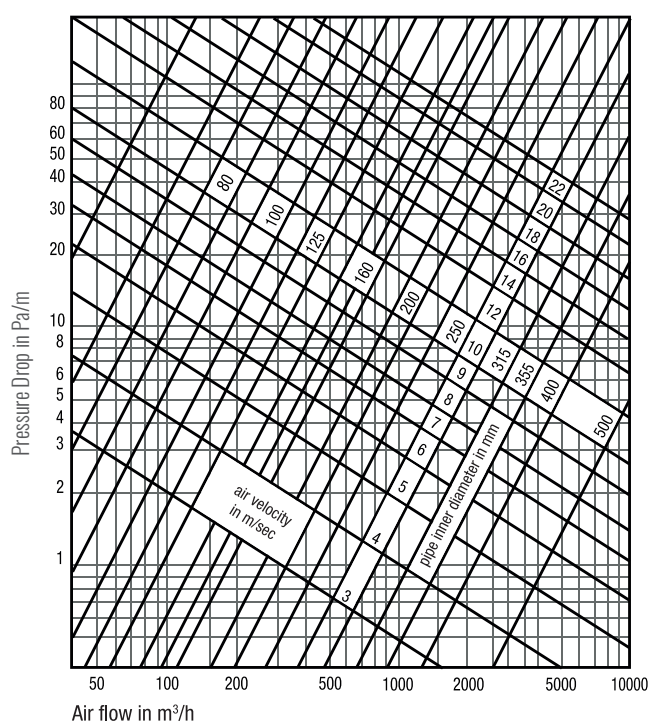
80	89*	102	110*	121*	127	133*	140*	152	160	180	203
228*	254	279*	305	318	356	406	457*	508	559*	610	

*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

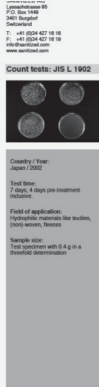
To calculate the flow rates and pressure drops of other diameters, use the beside diagram.

DIAMETERS [mm]	AIR SPEED 8m/s		AIR SPEED 10m/s	
	FLOW RATE [m ³ /h]	PRESSURE DROP [Pa/m]	FLOW RATE [m ³ /h]	PRESSURE DROP [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

MATERIAL PROTECTION

FIRE REACTION



ANTIMICROBIAL PROTECTION

MasterSan™ is produced with new generation polyolefin film with Sanitized® antimicrobial and antiviral technology which protects the internal surface from damages due to microbial load and reduces the formation of potential microbial odors inside the ventilation system for a better IAQ rate.



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®

BREEAM

Contributes to credits:
MAN, ENE, WST

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