



SA10 Therm MasterSan™



Flexible hose made of additivated polyolefin resin film, 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 = 0,58m²K/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 406 mm	-20°C / +90°C (peak +110°C)	0,8 - 1,5 x Ø	max 20 m/sec	max 200 mmH ₂ O

PRODUCTION DIAMETERS

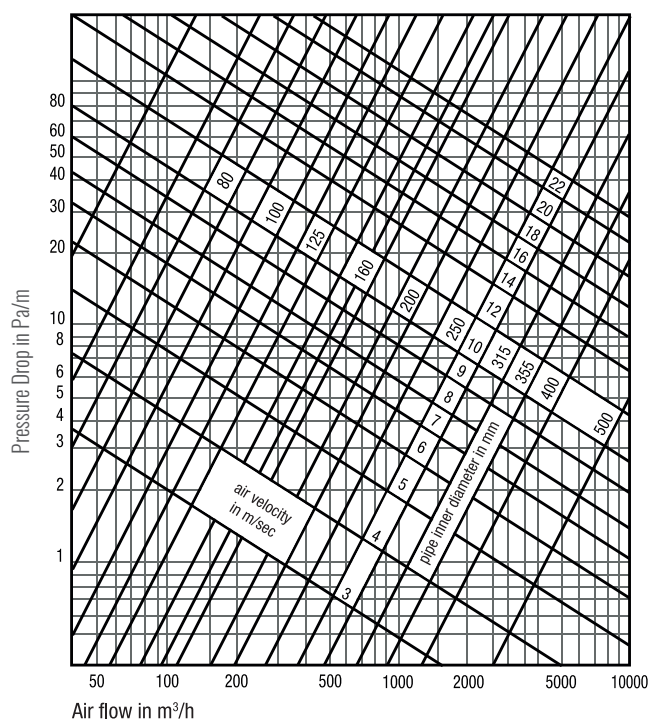
80	102	127	152	160	165*	180	203	254	305	318	356	406
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*Diameters available on request

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

CERTIFICATIONS

SANITIZATION

FIRE REACTION



Count tests: JIS L 1902
Testing the antibacterial activity and efficacy on textile products

Quantity / Size:
cappi: 1000

Test time:
7 days, 4 days pre-treatment included

Field of application:
Systems: mechanical filter, ducts, duct covers, boxes

Sample size:
Five specimens with 0.4 g in a controlled environment

Scope:
This method is applied for the quantitative determination of the antibacterial effectiveness of non-diffusible active substances.

Analysis:
Specimens are contaminated with a standard number of a given micro-organism (aerobic, after incubation for 18 hours by 37°C, the micro-organisms on the test material are washed off with a diluted alcohol solution. The number of viable bacteria with 0.01 g is determined and counted quantitatively. From this number the antibacterial effect can be calculated.

Test assessment:
Evaluation is based on the difference in bacteria count (in terms of log) between pre and 18-hour control with the test material. Germ reduction "Microbiological Activity 5" is given as logarithmic and percentage value.

Test organisms:
Escherichia coli ATCC 4708
Candida albicans ATCC 10229
Pseudomonas aeruginosa ATCC 4362

Explanation of the bactericidal activity:
0.0% germ growth, insufficient antibacterial effect
0.1% to 0.9% no significant germ reduction, insufficient antibacterial effect
≥0.9% significant germ reduction, good antibacterial effect.



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.



NO BACTERIA

NO MILDEW

IT

Class 1 (D.M. 26/06/84)

EU

Inner tube and vapor barrier:
class B-s1, d0
(en 13823:2010)
Thermal insulation:
class B-s2, d0
(uni en 13501-1:2009)



0497

MED/3.18f
(2014/90/UE)

f) combustible ducts
membrane

FR

Inner tube and vapor barrier:
class M1 (AFNOR NF P 92-507 § 3.1.2)
Thermal insulation:
class M1 NF P 92-507:2004

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*
		HF						
REACH Certifie	RoHS Certifie	Halogen Free	Compact Version*	Building	Air Conditioning	CMV	Non-magnetic*	CMV mech. means
Recreational Boats								

*on request