

SA10 MasterSan™



Flexible hose made of additivated polyolefin resin film, anti-bacterial/anti-mildew master and steel wire helix.

MasterSan™ in collaboration with:



TECHNICAL SPECIFICATIONS AND USAGE LIMIT

COLOR	LENGTH	PRODUCTION DIAMETERS	WORKING TEMPERATURE	CURVATURE RADIUS	AIR SPEED	PRESSURE
Grey	10 m standard	from 80 to 406 mm	-20°C / +90°C (peak +110°C)	0,6 x Ø	max 20 m/sec	max 200 mmH ₂ O

PRODUCTION DIAMETERS

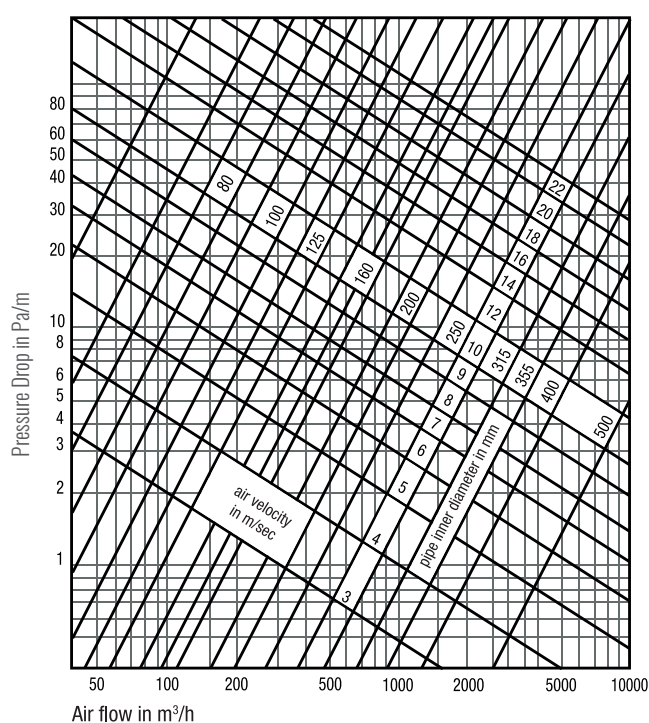
80	102	127	152	160	165*	180	203	254	305	318	356	406
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*Diameters available on request

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 [m³/h]	PRESSURE DROP [Pa/m]	FLOW RATE [m³/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



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.



Count tests: JIS L 1902

Testing the antibacterial activity and efficacy on textile products

Country: Japan
Standard: JIS L 1902
Test time: 7 days, 4 days pre-treatment (optional)
Test of application: hydrophobic materials like textiles, glass, metal, stone
Sample size: 100 specimens with 0.4 g in a standard determination

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

Abstract: Specimens are contaminated with a standard number of a given micro-organism (bacteria). After incubation for 16 hours at 37°C, the micro-organisms on the test material are washed off with a defined amount of water. The number of colony forming units (CFU) is determined and expressed logarithmically. From this number the antibacterial effect can be calculated.

Test assessment: Evaluation is based on the difference in bacteria count (in terms of CFU) between one and 16 hour contact with the test material. Germ reduction: "Antibacterial Activity" (TA) given as logarithmic and percentage data.

Test organisms: Bacteriophage control ATCC 4326
Escherichia coli ATCC 11229
Staphylococcus aureus ATCC 4322

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





NO BACTERIA NO MILDEW

FIRE REACTION

IT	Class 1 (D.M. 26/06/84)	
EU	Class B-s1, d0 (EN 13823:2010)	 MED/3.18f (2014/90/UE) f) combustible ducts membrane
DE	B2-0.095mm (DIN 4102 Teil 1 p.6.2)	
FR	Class M1 (AFNOR NF P 92-507 § 3.1.2)	

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, 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*	Building	Air Conditioning	CMV	Non-magnetic*	CMV mech. means
								
Recreational Boats								

*on request