



# SA10 Therm MasterSan™



Flexible hose made of addivated polyolefin resins film with anti-bacterial, anti-mildew and anti-viral material protection with steel wire helix.. Thermo-insulating covering in polyester fibre (thickness 25mm/16kg/m<sup>3</sup>). Outer aluminized film protection (flame retardant).  
Insulation: 25mm / 16kg/m<sup>3</sup> - standard  
50mm / 16kg/m<sup>3</sup> - on request

MasterSan™  
in collaboration with:



Thermal resistivity at 20°C **R = 0,58m<sup>2</sup>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 406 mm	-20°C / +90°C (peak +110°C)	0,8 - 1,5 x Ø	max 20 m/sec	max 200 mmH <sub>2</sub> O

## PRODUCTION DIAMETERS

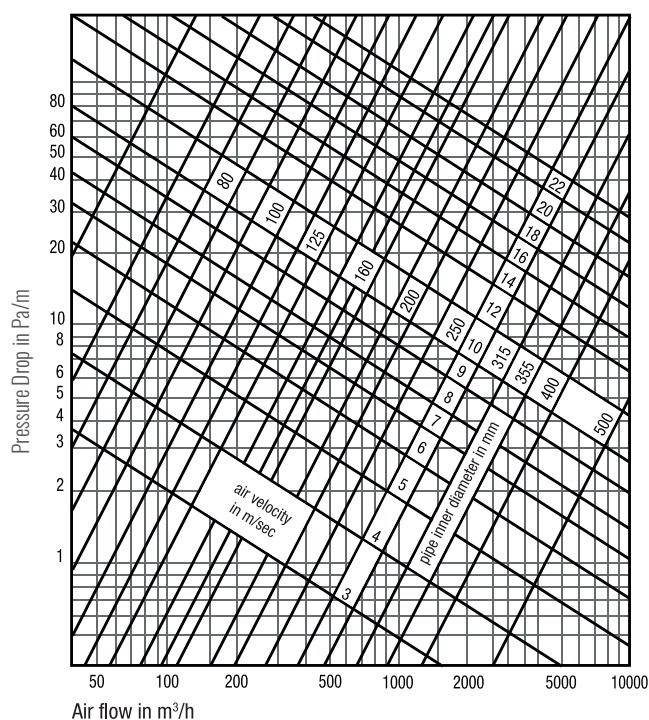
80	102	127	152	160	165*	180	203	254	305	318	356	406
----	-----	-----	-----	-----	------	-----	-----	-----	-----	-----	-----	-----

\*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 <sup>3</sup> /h]	PRESSURE DROP [Pa/m]	FLOW RATE [m <sup>3</sup> /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





### 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.

<b>IT</b>	Class 1 (D.M. 26/06/84)
<b>EU</b>	Inner tube and vapor barrier: class B-s1, d0 (en 13823:2010) Thermal insulation: class B-s2, d0 (uni en 13501-1:2009)
<b>FR</b>	Inner tube and vapor barrier: class M1 (AFNOR NF P 92-507 § 3.1.2) Thermal insulation: class M1 NF P 92-507:2004



MED/3.18f (2014/90/UE)

0497 f) combustible ducts membrane

## 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*	Building	Air Conditioning	CMV	Non-magnetic*	CMV mech. means
	*on request							
Recreational Boats								