The new generation of **sanitized single-wall flexible hoses**, for air conditioning and ventilation



Contribute to obtain the **credits of the main world sustainability ratings for buildings: LEED®**, WELL™ **e BREEAM®** 





**BREEAM**®



Goals 2030 - UN

## SUSTAINABLE DEVELOPMENT GENALS

TECNICA ™ has focused the sustainability as a strategic lever of the company policy, promoting product innovation (materials, technologies and production techniques) and the development of concrete actions. We evolved our approach to resources, increased the circularity of our products life cycle, we developed new potentials, promoted awareness of the principles of sustainability and transparency. We reduced the use of plastic in our packaging by 30%, for our boxes we use FSC (Forest Stewardship Council) certified cardboard and we reuse 75% of the raw material waste in our production.

TECNICA™ promotes the Sustainable Development Goals presented by UN.

### TECNEA

Efficient Indoor Air Project

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### ENVIRONMENT, HEALTH, ENERGY

### THREE WORDS JOINT BY A SINGLE COMMON DENOMINATOR: **THE CHANGE**.



We know everything about our cars: costs, consumptions, performances.

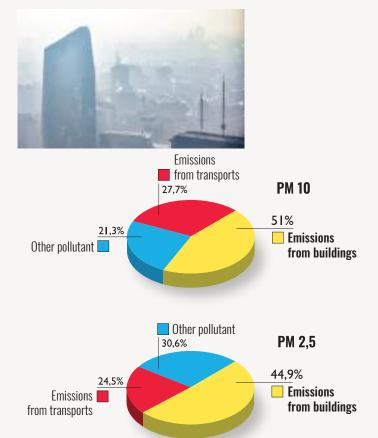
### Do we know as much about our houses?

How many people knows that an **apartment of 100 m²**, **in 6 months** of heating, enters in the atmosphere the **double of CO<sub>2</sub> compared to a car** driving in Milan for one whole Year?

**The European Environment Agency** identified how the pollutant emissions of buildings (PM10 and PM2,5) are two or three times higher than the one produced by transports.

It is necessary to act on existing buildings with energetic upgrading projects, which drastically reduce the energetic needing of our houses and, consequently, the pollutant emissions in the environment.

The air pollution caused by fine particles has been valued as one of the main critical element for men's health by the World Health Organization.





TECNICA™, with its policy focused on the environmental sustainability in its most wide meaning, has always fostered the HRV as a good practices to grant people's welfare and to reduce the environment pollution elements caused by obsolete and highly polluting heating systems.

### DAILY WELL-BEING

An individual's happiness is given by three elements:

**50% by Genetics**, the character propensity of everyone to be happy and positive in life.

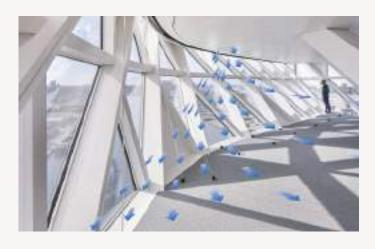
**10% by exceptional events**, random or occasional, like the birth of a child, the achieving of a bonus at work or in studying, a friend's call, the winning of an amount of money.

**40%** by the everyday, in which way we live our daily life. The comfort, health and wellness are part of everyone's life and determine a good quality of life.



#### The green frontier is the last big achievement by TECNICA™.

We checked all our products to document the **compliance to the** main international rating for the sustainability certification of residential, office, commercial, medical, production and services buildings: LEED®, WELL™ and BREEAM®



#### **TECNICA™** Efficient Indoor Air Project

In over 30 Years of activity we have changed the insulating materials and realized non-toxic film with antibacterial additives, realized devices for the independent climate control of diffusers and patented products.

Tecnica™'s mission is to proceed in the **research for the innovation of materials and products**, testing and certifying them to assure the health of people, who pass their time in closed spaces, and the environmental sustainability.











## DEVELOPMENT IN EFFICIENCY



It is the new generation of sanitized expanded foam singlewall flexible hoses, for air conditioning and ventilation systems in confined environments.

All the T-Esp expanded foam flexible hoses contribute to obtain the credits of the main world sustainability ratings for buildings: LEED®, WELL™ and BREEAM®.







Business



Hospitality Industry



Management Centres





**BREEAM®** 



Hospital



Automotive



Railways



Naval

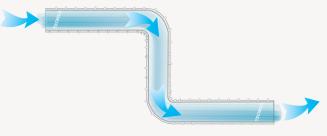


#### SINGLE-WALL

**T-Esp™** flexible hoses are made of a **single insulating wall** with thickness **4 or 8 mm**, which allows **to minimize the installation dimensions** in case of reduced spaces for the air conditioning or ventilation system in which high efficiency performances must be guaranteed.







### **FLEXIBLE**

**T-Esp™** hoses are **light and self-supporting** with a spiral in harmonic steel, which acts as a rib and allows to keep **the internal section unchanged even in the curves** and consequently keep **unchanged the pressure drop of the project.** 

### **SANITIZING**

Thanks to the MasterSan™ technology, conceived and designed by Tecnica™ in collaboration with Sanitized®, the inner wall the of the T-Esp™ hoses is blended with Sanitized® additive, which prevents the formation of mold and the proliferation of bacteria in the canalization system, reducing the risk of introducing unhealthy air in the environment.



The contribution to the rating LEED®, WELL™ and BREEAM® of each single T-Esp product are indicated in the general catalogue of the range VENTILATION



#### **INSULATING AND ENERGETICALLY EFFICIENT**

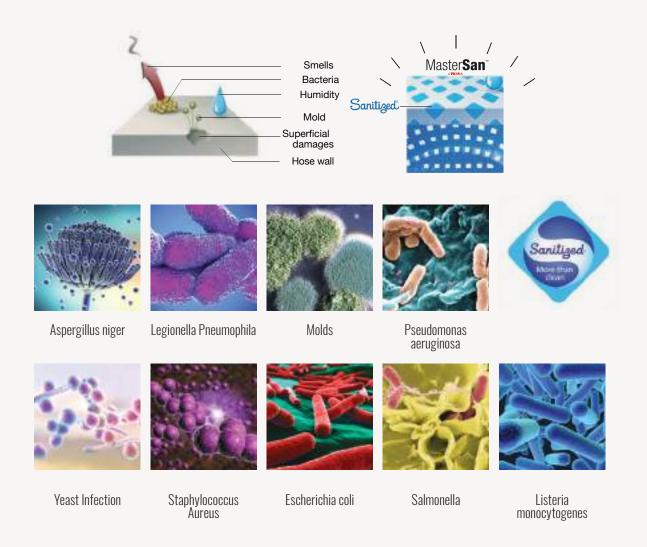
The wall of the T-Esp<sup>™</sup> hoses is made of an **expanded closed-cell resin** which allows to obtain an insulating features and a **thermal transmittance of 9,5 Wm2K equal to 8.173 Kcal.** 





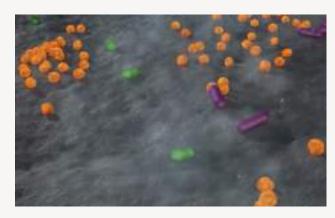
### TECNICA™ AND SANITIZED®

The inner wall of the single-wall T-Esp flexible hoses is produced with the MasterSan technology as a result of Research and Development carried by TECNICA in collaboration with Sanitized. Thanks to the **exclusive partnership with SANITIZED**, **TECNICA** is **the only company in the aeraulic sector to produce a sanitizing film capable of guarantee and certificate the sanitizing efficiency for 10 years**.

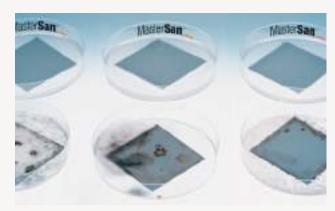


The air quality improvement and the internal environmental comfort guarantee Indoor Air Quality high standards, as requested by the World Health Organization and contributes to obtain the credits of the main world sustainability ratings for buildings: LEED®, WELL<sup>™</sup> and BREEAM®.















### LICENSE PARTNER CERTIFICATE



DANCTIFIC AC Assessité control that

#### Tecnica Srl

has been approved as a Scenne partner and has the right to distinguish its Switcows" trained at lides with the Switcout" Quality Sed. Their impervious anticles have successfully passed all necessary trans at accordance with the Switcout like the standard and they are consisted to the required requiring waitly controls.



# THE $-Esp^{TM}$ Plus

The T-Esp™ sanitized expanded foam single-wall flexible hoses are patented and have unique characteristics in the panorama of hoses for the aeraulic systems. In these pages, we list the technological uniqueness, which guarantee efficiency of the system, saving time in its execution and cost savings in its operation.





SA10/ESP PATENTED MasterSan<sup>TM</sup>



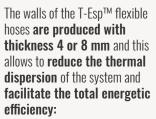
SLEEVE SA10/ESP Therm MasterSan<sup>TM</sup>



SA10/ESP 8MM PATENTED MasterSan<sup>TM</sup>



SA10/ESP THERM PATENTED MasterSan<sup>TM</sup>





Th. 8 mm R= 0,24 m2K/W



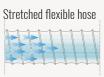
Th. 4 mm (hose) insulation Therm (Th.25 mm) R= 0,66 m2K/W

**NO CONDENSATION** 

### COMPARISON OF REAL PRESSURE DROP ON FLEXIBLE HOSES



Flexible hose compliant to EN13180 to guarantee the pressure drop in stretched position



 Ø
 102 mm

 V
 5 m/s

 ΔPa
 6,5 Pa

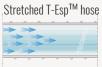
Installed flexible hose

i	1
Ø	102 mm
V	5 m/s
∆Pa	(8,0 Pa)

Real increase of pressure drop: +18%







102 mm
5 m/s
5,5 Pa

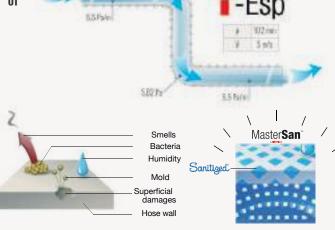
Installed T-	Esp <sup>TM</sup> hose
<b>*</b>	N S
***	
ei.	100 mm

V 5 m/	ım
	'S
△Pa 5,5 F	a

No increase of pressure drop

The internal part of T-Esp™ flexible hoses is covered with MasterSan sanitizing film and prevents the mold and proliferation of bacteria and germs

The airflow section remains unchanged even in the curves and allows to keep unvaried the pressure drop of the project  $\,$ 





## T-ESp and the environment









The high performances of **energy efficiency and air sanitizing** of the **T-Esp™ single-wall expanded flexible hoses** facilitate the adoption of **Controlled Mechanical Ventilation** as a technology that best contributes to the **air quality** inside the confined spaces in which we live, work or we spend our free time.



The reduced electrical consumption of modern ventilation systems with heat recycling, combined with the technical performance of T-Esp™ flexible hoses, represent the future of residential aeraulic systems, but also of stores, offices, laboratories and other confined environments of daily life. In case of dual flow CMV systems, in which is important that the aeraulic hoses guarantee project performance, the T-Esp™ flexible hoses ensure uniformity and balance for the equivalence of the flow rates and extraction flow rates, avoiding pressurize or vacuum areas of the house, ensuring that the air flow rates reached are able to satisfy the ideal conditions of temperature and humidity of the project. This allows a high-energy yield with low energy consumption satisfactory with common renewable energy systems.





TECNICA ™, with its policy focused on **environmental sustainability** in its broadest sense, has always promoted the **CMV** as a good construction practice to ensure the **well-being** of people and decrease the factors of **environmental pollution** caused by obsolete and highly polluting heating systems









TECNICA™ has always stood out for innovation in materials, operating performances, high quality standards of products, compliance with the main regulations regarding indoor environmental quality, microbial abatement, non-toxicity of materials and reaction to fire. For this reason, the T-Esp™ sanitized expanded foam single-wall flexible hoses contribute to obtain the credits of the main world sustainability ratings for buildings: LEED®, WELL™ and BREEAM®.

### THE INSTALLATION ADVANTAGES



The T-Esp™ sanitized expanded single-wall flexible hoses prevent those installation errors that in many cases affect the correct functioning of an aeraulic system. T-Esp™ hoses are easy to install thanks to their lightness and self-supporting and avoid to waste materials and time on construction site because they are not compressible and can be cut to measure on site.



No to additional costs for the hoses insulation since the T-Esp™ hoses are pre-insulated



**No to axial compressions** of the hose thanks to the rib in harmonic steel of the T-Esp™



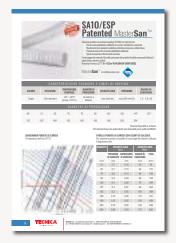
No to the formation of condensation inside the T-Esp<sup>TM</sup> hoses



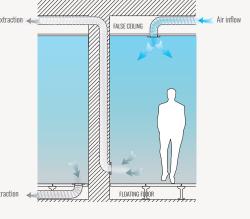
**No to crushing** in case of narrow radius curvatures



**No connection systems**, the **T-Esp™** flexible hoses can be installed simply with the most common CMV accessories for deviations and branch



The **T-Esp™** can be **installed below duct on the wall** or on sight in the **false ceiling** or under **floating floors** 



**T-Esp™ ensures that the pressure drops** indicated in the catalog technical sheets **are respected** once the hoses of the system are installed



### **CUSTOMER SERVICE**

TECNICA™ 's approach towards its customers is to ensure assistance in finding the most **suitable technical** solutions to meet specific needs and in the production choices that permit to create highly customized **products**. The decades of experience of TECNICA™ technical and production staff is available for customers to solve special needs which may concern the composition of the raw materials or **flexible hoses sizing needs** (diameters, lengths, spiral pitch, wire etc.),



It is possible, on request, to measure the diameters of T-Esp™ flexible hoses to adapt them to the construction sites CMV accessories





Our logistic allows to promptly handle the orders execution.

It is possible, on request, to customize the packaging to solve both the warehouses and construction sites needs







































### SA10/ESP Patented MasterSan<sup>™</sup>

Flexible hose produced with exclusive technology by TECNICA SRL made of:

- Addivated polyolefin resins film with anti-bacterial and anti-mildew master.
- Thermo-insulating coating in netted and closed-cell of polyethylene foam.
- External protection in addivated polyolefin resins film.
- Embedded steel wire helix.

The assembly of materials for the construction of the flexible conduit does not require the use of chemical agents, glues or adhesives.

Thermal resistivity at 20°C R = 0,12m<sup>2</sup> K/W (UNI EN 12664:2002)

 $Master \textbf{San}^{^{\text{TM}}} \text{ in collaboration with:}$ 



TECHNICAL SPECIFICATIONS AND USAGE LIMIT							
COLOR	LENGTH	WORKING TEMPERATURE	PRODUCTION DIAMETERS	AIR SPEED	PRESSURE	CURVATURE Radius	
Grey	10m standard	-20° + 90°C (peak +115°C)	from 40mm to 254mm	max 20m/sec	max 200 mmH <sub>2</sub> O	1,2 - 1,8 x Ø	

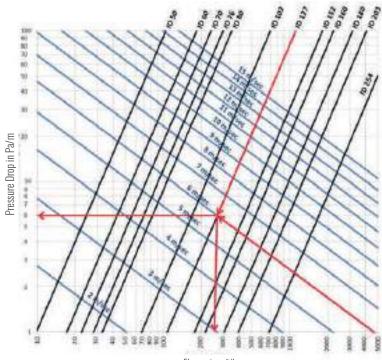
PRODUCTION DIAMETERS									
40*	51	63	70	76	80	90*	102	110*	121*
127	133*	140*	152	160	165	180	203	254	

\*Diameters available on request

Diameters other than those indicated are available by prior feasibility check.

#### PRESSURE DROPS DIAGRAM

(Air Temperature 20°C)



Flow rate m<sup>3</sup>/h

#### PRESSURE DROPS TABLE WITH CALCULATION EXAMPLES

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

DIAMETER		SPEED Bm/s	AIR SP 10m/	
	WORKING Pressure	WORKING Vacuum	CURVATURE RADIUS	WEIGHT
[mm]	[bar]	[bar]	[mm]	[gr/m]
51	0,7	0,18	35	96
63	0,7	0,15	42	115
70	0,6	0,13	49	128
80	0,5	0,09	56	154
102	0,4	0,08	70	200
127	0,4	0,07	92	254
152	0,2	0,05	105	308
160	0,15	0,05	110	331
180	0,15	0,05	130	438
203	0,15	0,04	140	492
254	0,08	0,03	175	600



### 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:



Contributes to credits: IP, EA, MR



**WELL**Contributes to credits:
MATERIALS, COMMUNITY



BREEAM
Contributes to credits:
MAN, ENE, WST

For further details regarding the specific contributions to the credits indicated, contact Tecnica Srl

	APPLICATIONS								
		$\Xi$			$\bigcirc$		<b>®</b>		
OEM	Residential	Smooth surface	Flexibility	Easy Pack	Self- extinguishing	Mold Resistant	Microorganism Resistant	Tear Resistant	
	REACH	RoHS	HF			*	*	٩٩	
Calibrated Diameters*	REACH Certified	RoHS Certified	Halogen Free	Building	Transport	Air Conditioning	CMV	Non- magnetic*	
			٠						
Wall Trace	CMV transport means	CMV mech. means	Prolonged anti condensation	Recreational Boats				*on request	

WIRE OPTIONS	ADDITIVE OPTIONS	SERVICE OPTIONS
AM non-magnetic inox wire	UV * anti UV	MP customized marking



### Sleeve SA10/ESP Patented MasterSan™

Insulating sleeve produced with exclusive technology by TECNICA SRL made of:

- Addivated polyolefin resins film with anti-bacterial and anti-mildew master.
- Thermo-insulating coating in netted and closed-cell of polyethylene foam.
- External protection in addivated polyolefin resins film.

The assembly of materials for the construction of the flexible conduit does not require the use of chemical agents, glues or adhesives.

 $Master {m San}^{^{ om}}$  in collaboration with:

TECHNICAL SPECIFICATIONS AND USAGE LIMIT							
COLOR	LENGTH	WORKING TEMPERATURE	PRODUCTION DIAMETERS	AIR SPEED	PRESSURE	CURVATURE RADIUS	
Grey	10m standard	-20° + 90°C (peak +115°C)	from 40mm to 254mm	max 20m/sec	max 200 mmH <sub>2</sub> O	1,2 - 1,8 x Ø	

PRODUCTION DIAMETERS									
40*	51	63	70	76	80	90*	102	110*	121*
127	133*	140*	152	160	165	180	203	254	

\*Diameters available on request Diameters other than those indicated are available by prior feasibility check.

	CERTIFICATIONS								
	SANI	TIZATION	FIRE REACTION						
County Test John John St.  County Test John John St.  County Test John John John John John County Test John John John John County Test John John John County Test John John John County Test John John County Test John John County Test John County	Testing the artillizactorial softwirty and efficacy on testific products  Super.  Supe	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.	ΙΤ	Class 1 (D.M. 26/06/84)					
The second with 6 g ps second of the second	Conductor Institute of the Officeron in Institute of the Institute of the Officeron Institute of the Institute of the Institute of the Institute of the Institute of Institute	Santiged	EU	Class B-s2, d0 (EN 13501-1:2009)					

### GREEN BUILDING

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LEED
Contributes to credits:
IP, EA, MR



**WELL**Contributes to credits:
MATERIALS, COMMUNITY



**BREEAM** 

Contributes to credits: MAN, ENE, WST

For further details regarding the specific contributions to the credits indicated, contact Tecnica Srl

	APPLICATIONS								
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X		::::::::::::::::::::::::::::::::::::::	<b>©</b>	REACH	RoHS		
OEM	Residential	Smooth surface	Easy Pack	Mold resistant	Microorganism Resistant	REACH Certified	RoHS Certified	Building	

	TESTS PERFORMED									
TEST	METHOD	OUTCOMES								
	T. ( )   ( )	ETHANOL No modification and/or damage								
Resistance to aggression	Test performed on non-insulated SA10/ESP duct	AMMONIA  No modification and/or damage								
by chemical agents	Application on the external surface of the specific chemical agent and check for any changes after 48h.	HIGH CONC. DEGREASER No modification and/or damage								
	Changes alter 4011.	COOLANT FLUID  No modification and/or damage								
Maximum operating temperature peak	Test performed on non-insulated SA10/ESP duct  - Identification of the maximum temperature peak bearable by the duct and all its components.	+115°C no longer than 2min.								



### SA10/ESP 8mm Patented MasterSan<sup>TM</sup>

Flexible hose produced with exclusive technology by TECNICA SRL made of:

- · Addivated polyolefin resins film with anti-bacterial and anti-mildew master.
- Thermo-insulating coating in netted and closed-cell of polyethylene foam (th. 8mm).
- External protection in addivated polyolefin resins film.
- Embedded steel wire helix.

The assembly of materials for the construction of the flexible conduit does not require the use of chemical agents, glues or adhesives.

Thermal resistivity at 20°C **R = 0,24m**<sup>2</sup> **K/W (UNI EN 12664:2002)** 

Master**San**<sup>™</sup> in collaboration with:



	TECHNICAL SPECIFICATIONS AND USAGE LIMIT								
COLOR	LENGTH	WORKING TEMPERATURE	PRODUCTION DIAMETERS	AIR SPEED	PRESSURE	CURVATURE Radius			
Grey	10m standard	-20° + 90°C (peak +115°C)	from 40mm to 254mm	max 20m/sec	max 200 mmH <sub>2</sub> O	1,2 - 1,8 x Ø			

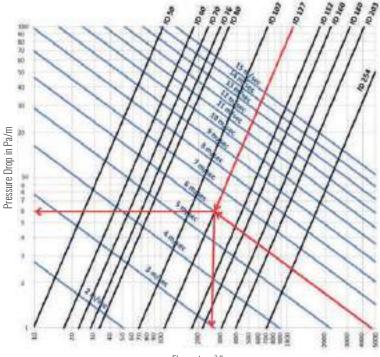
	PRODUCTION DIAMETERS									
40*	51	63	70	76	80	90*	102	110*	121*	
127	133*	140*	152	160	165	180	203	254		

\*Diameters available on request

Diameters other than those indicated are available by prior feasibility check.

#### PRESSURE DROPS DIAGRAM

(Air Temperature 20°C)



Flow rate m<sup>3</sup>/h

#### PRESSURE DROPS TABLE WITH CALCULATION EXAMPLES

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

DIAMETER		SPEED Bm/s	AIR SPEED 10m/s		
	WORKING PRESSURE	WORKING VACUUM	CURVATURE RADIUS	WEIGHT	
[mm]	[bar]	[bar]	[mm]	[gr/m]	
51	0,7	0,18	35	96	
63	0,7	0,15	42	115	
70	0,6	0,13	49	128	
80	0,5	0,09	56	154	
102	0,4	0,08	70	200	
127	0,4	0,07	92	254	
152	0,2	0,05	105	308	
160	0,15	0,05	110	331	
180	0,15	0,05	130	438	
203	0,15	0,04	140	492	
254	0,08	0,03	175	600	



### GREEN BUILDING

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Contributes to credits: IP, EA, MR



**WELL**Contributes to credits:
MATERIALS, COMMUNITY



**BREEAM**Contributes to credits:
MAN, ENE, WST

For further details regarding the specific contributions to the credits indicated, contact Tecnica Srl

			ΑP	PLICATIO	NS			
		$\Xi$			$\bigcirc$		<b>®</b>	
OEM	Residential	Smooth surface	Flexibility	Easy Pack	Self- extinguishing	Mold Resistant	Microorganism Resistant	Tear Resistant
	REACH	RoHS	HF			*	*	٨
Calibrated Diameters*	REACH Certified	RoHS Certified	Halogen Free	Building	Transport	Air Conditioning	CMV	Non- magnetic*
			<b>&amp;</b>					
Wall Trace	CMV transport means	CMV mech. means	Prolonged anti condensation	Recreational Boats				*on request

WIRE OPTIONS	ADDITIVE OPTIONS	SERVICE OPTIONS
AM non-magnetic inox wire	UV * anti UV	MP customized marking



## SA10/ESP Therm Patented MasterSan

Flexible hose produced with exclusive technology by TECNICA SRL made of:

- Addivated polyolefin resins film with anti-bacterial and anti-mildew master.
- Thermo-insulating coating in netted and closed-cell of polyethylene foam.
- External protection in addivated polyolefin resins film.
- Embedded steel wire helix.
- Thermo-insulating covering in polyester fibre (th. 25mm-16kg/m³). Outer aluminized polyolefin film protection (flame retardant).

The assembly of materials for the construction of the flexible conduit does not require the use of chemical agents, glues or adhesives.

Insulation: 25mm / 16kg/m³ - standard

50mm / 16kg/m<sup>3</sup> - on request

Thermal resistivity at 20°C  $\mathbf{R} = \mathbf{0.66m^2 K/W}$  (UNI EN 12664:2002)

TECHNICAL SPECIFICATIONS AND USAGE LIMIT								
COLOR	LENGTH	WORKING TEMPERATURE	PRODUCTION DIAMETERS	AIR SPEED	PRESSURE	CURVATURE Radius		
Grey	10m standard	-20° + 90°C (peak +115°C)	from 40mm to 254mm	max 20m/sec	max 200 mmH <sub>2</sub> O	1,2 - 1,8 x Ø		

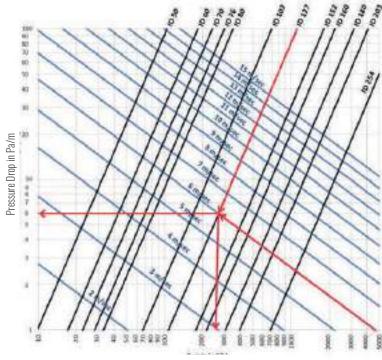
	PRODUCTION DIAMETERS													
40*	51	63	70	76	80	90*	102	127	152	160	165	180	203	254

\*Diameters available on request

Diameters other than those indicated are available by prior feasibility check.

#### PRESSURE DROPS DIAGRAM

(Air Temperature 20°C)

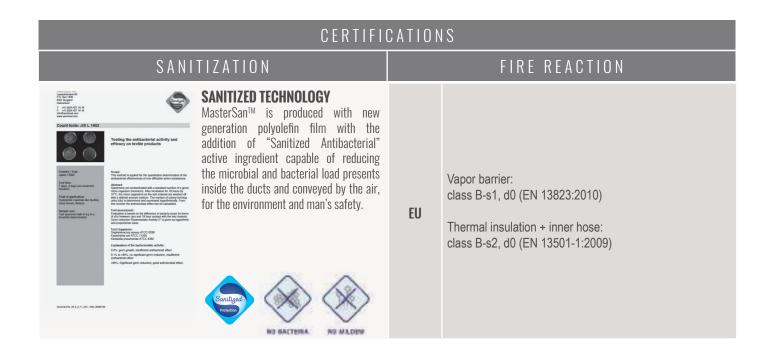


Flow rate m<sup>3</sup>/h

#### PRESSURE DROPS TABLE WITH CALCULATION EXAMPLES

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

DIAMETER		SPEED Bm/s	AIR SPEED 10m/s		
	WORKING PRESSURE	WORKING VACUUM	CURVATURE RADIUS	WEIGHT	
[mm]	[bar]	[bar]	[mm]	[gr/m]	
51	0,7	0,18	35	96	
63	0,7	0,15	42	115	
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80	0,5	0,09	56	154	
102	0,4	0,08	70	200	
127	0,4	0,07	92	254	
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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									
		$\Xi$			Q		<b>®</b>			
OEM	Residential	Smooth surface	Flexibility	Easy Pack	Self- extinguishing	Mold Resistant	Microorganism Resistant	Tear Resistant		
	REACH	RoHS	HF			*	#S	٨		
Calibrated Diameters*	REACH Certified	RoHS Certified	Halogen Free	Building	Transport	Air Conditioning	CMV	Non- magnetic*		
Wall Trace	CMV transport means	CMV mech. means	Prolonged anti condensation	Recreational Boats				*on request		

WIRE OPTIONS	ADDITIVE OPTIONS	SERVICE OPTIONS
AM non-magnetic inox wire	UV * anti UV	MP customized marking

\*on request



### TECNEA

Efficient Indoor Air Project

### TECNICA S.R.L.

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