



## CLIMAVER® self-supporting duct system for air-conditioning, ventilation and heating systems

CLIMAVER® is a self-supporting duct for air-conditioning, ventilation and heating and cooling systems.

CLIMAVER® offers superior thermal performance and high level of airtightness to keep your air fresh and making the system energy efficient.

CLIMAVER® A1 Apta reduces noise levels generated by fans and air-conditioning units providing superior acoustic comfort to the building occupants.



### THERMAL INSULATION

High class insulation keeps the medium temperature as designed and secures system operating with minimal losses



### SOUND ABSORPTION

Superior acoustic protection to reduce noise transmission through the duct or pipework system



### FAST INSTALLATION

Thanks to its light weight and high flexibility, it can be installed by one person without any special equipment



### AIR TIGHTNESS

Secured air transport through the duct system and lower energy bills thanks to reduced heat loss and fan energy wastage to compensate the effect of the leaks



### RECYCLED GLASS

Recycled material content 80% of the product composition



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES				STANDARD
Thermal conductivity	T	[°C]	10	20	40	50	EN 12667 EN 12939
	$\lambda$	[W/(m·K)]	0.032	0.033	0.036	0.039	

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES								STANDARD
Practical acoustic absorption coefficient, $\alpha_P$		Hz	125	250	500	1,000	2,000	4,000			EN ISO 354 EN ISO 11654
	$\alpha$	-	0.40	0.70	0.85		0.90	1.00			
	$\alpha_w$	-	0.90					0.90	0.90		
Acoustic attenuation, in a straight duct, $\Delta L$ (DB/m)*	Section [mm]	200 x 200	5.82	12.75	16.73		18.12	21.00			-
		300 x 400	3.40	7.43	9.76		10.57	12.25			
		400 x 700	2.29	5.01	6.57		7.12	8.25			
-	-	-	DL = 1.05 · $\alpha_P$ · 1.4 · P/S For the sound power of a ventilator with a 20,000 m <sup>3</sup> /h flow, load loss 15 mm.w.g.								-

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES				STANDARD
Reaction to fire	-	-	Non combustible, Euroclass A1				EN 13501-1 EN 15715
Application field	-	-	CLIMAVER® is a self-supporting duct for air-conditioning, ventilation and heating systems CLIMAVER® has been designed to offer excellent thermal performance, acoustics, fire safety and high level of air-tightness making the system energy efficient				EN 13403
Airtightness	-	-	Class D				EN 1507 EN 12237
Resistance to pressure	-	Pa	800				EN 13403
Pressure losses	-	Pa	For normal HVAC system air speeds pressure drops are similar to metal ducts				-
Dimensional stability	-	%	Quantities and measured values : < 1				EN 1604
CE marking	-	-	CE marking designation code MW-EN14303-T5-MV1				EN 14303
Water vapour resistance	-	m <sup>2</sup> ·h·Pa/mg	140				EN 12086
Quality management	-	-	ISOVER is certified according to EN ISO 9001 and EN ISO 14001				EN 14303 VDI 2055 EN ISO 9001 EN ISO 14001
Installation unique feature	-	-	Duct assembly: exclusive male/female molded shiplap				-
Working conditions	-	-	Resistant to mechanical cleaning methods Maximum air speed: 18 m/s Maximum temperature of circulating air: 90°C				-

**DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION\***

LENGTH [MM]	WIDTH B [MM]	THICKNESS D [MM]	M <sup>2</sup> /PACK	M <sup>2</sup> /PALLET	M <sup>2</sup> /TRUCK
3,000	1,210	40	18.15	199.70	1597.00

\* Products must be stored inside, in a dry and clean location.


**www.isover-technical-insulation.com**

The technical information corresponds to our present state of knowledge and experience at the date of printing (see imprint). But no legal guarantee can be given, unless it has been explicitly agreed. The state of experience and knowledge is developing continuously. Please see to it that you always use the latest edition of this information. The described product applications do not take special circumstances in consideration. Please verify whether our products are appropriate for the concrete application. For further information please contact our Isover sales offices. We deliver only according to our terms of trade and terms of delivery.

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