



# CLIMAVER® A2 APTA

## 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® A2 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 up to 80% of the product composition



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES				STANDARD
Thermal conductivity	T	[°C]	10	20	40	60	EN 12667
	$\lambda$	[W/(m·K)]	0.032	0.033	0.036	0.039	EN 12939

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
	$\alpha_w$	-	0.40	0.70	0.85		0.90	1.00		
			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 · $\alpha_P$ · 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 A2-s1, d0		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 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

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