

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 80% of the product composition



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

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|--------------------------------------------------------------|--------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|---|----------------------------|
| Practical acoustic absorption coefficient, α_p | - | Hz | 125 | 250 | 500 | 1,000 | 2,000 | 4,000 | - | EN ISO 354 EN ISO 11654 |
| | α_w | - | 0.40 | 0.70 | 0.85 | | 0.90 | 1.00 | | |
| | | | 0.90 | | | 0.90 | 0.90 | | | |
| Acoustic attenuation, in a straight duct, ΔL (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 · $\alpha_{p1.4}$ · P/S For the sound power of a ventilator with a 20,000 m ³ /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 ² ·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 ² /pack | m ² /pallet | m ² /truck |
|-------------|--------------|------------------|----------------------|------------------------|-----------------------|
| 3,000 | 1,210 | 40 | 18.15 | 199.70 | 1597.00 |

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

