



MASS ENERGY



TFD

C L I M A

DYNAMIC FLOW TECHNOLOGY
CLIMA

VENT 120 H

INTELLIGENT USE OF ENERGY




TFD


C L I M A


VENT 120 H


DYNAMIC FLOW TECHNOLOGY
CLIMA

 Maximum flow rate (SFPlimit2018) 1200 m³/h with 248 Pa of useful pressure


 Polypropylene, counter-current flow heat recuperator with 90% + efficiency


 Energy efficient, EC centrifugal fans with backward-curved blades

 Low pressure drop filters: F7 (ePM1 70%) for fresh air and M5 (ePM10 50%) for extraction


 Pre-painted sheet metal self-supporting structure; 22 mm-thick stone wool thermal/sound insulation

 Nominal voltage: 230 V 1F 50-60 Hz


 Power input at max flow rate: 4,4 A 1 kW

 Sound pressure level at 1.5m (Lpa in dB(A)): 52 dB(A)

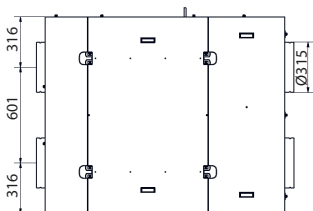
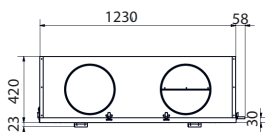
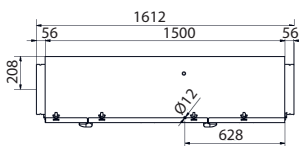
 Free-cooling/free-heating built-in bypass (either manual, engine-driven or automatic)

 **Available with the following controls:**
4V board (S4), potentiometer (PT), 3 speed (3V), 3 speed EVO (3E), electronics without remote control (SE), electronics with black LCD (EL), electronics with white LCD (EB), electronics with COLOR-TOUCH display (ET)

 Built-in antifreeze protection (versions with electronics only: 3E, SE, EL, EB, ET)

 Operating conditions: ambient temperature 0 °C - 45 °C, humidity <80%

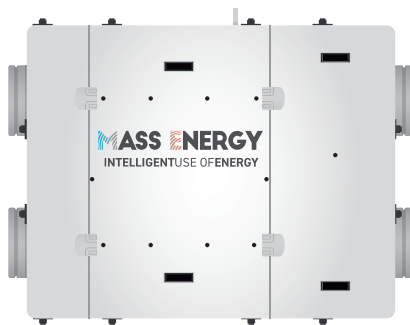
DIMENSIONS



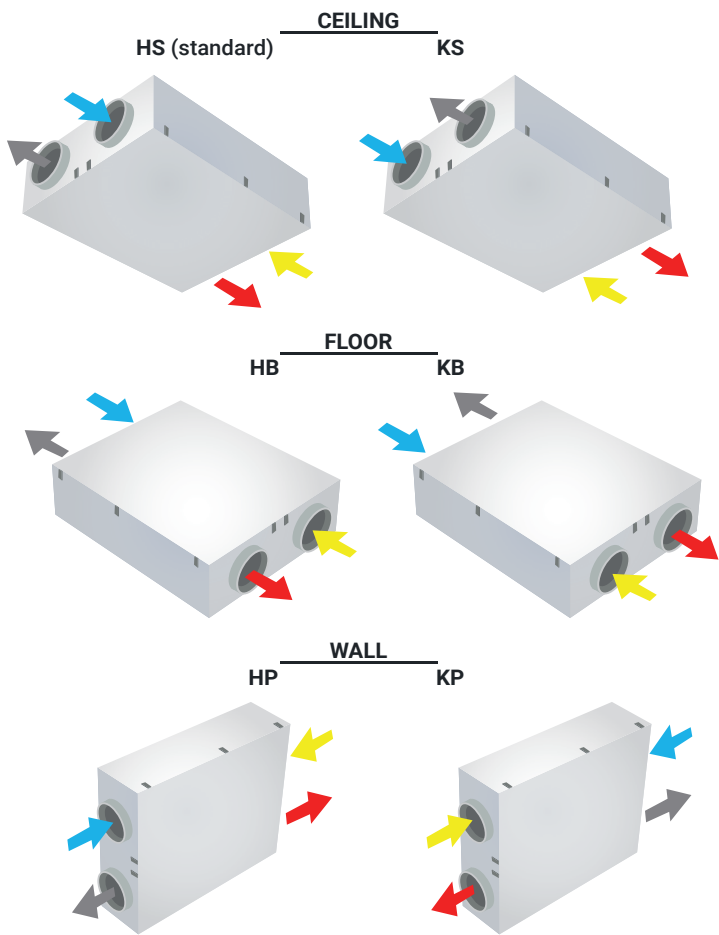
Dimensions, excluding sleeves and condensation drain (w x d x h):
1230x1500x420 mm

Nominal pipes size:
Ø315 mm

Weight:
115 kg



CONFIGURATIONS



- FRESH AIR (external air intake)
- EXHAUST AIR (expulsion to the outside)
- RETURN AIR (extraction from the ambient)
- SUPPLY AIR (supplied to ambient)



PRODUCT FICHE

According to Regulations (UE) n° 1253/2014 and n°1254/2014
Data refers to the maximal nominal power
(for the other work's points verify graph of aeraulic performance)



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C L I M A

| Supplier's name | | MASS ENERGY Srl |
|--|-----------------|--|
| Model identification code | | CLIMA VENT 120 H |
| Typology of product | | CLIMA VENT, bidirectional |
| Type of drive | | Variable speed |
| Heat recovery system | | Counter-current flow |
| Thermal efficiency of heat recovery* | | 79.9% |
| Nominal flow rate (m³/s) | | 0.333 m³/s |
| Effective electric power input (kW) | | 0.743 kW |
| Specific internal fan power SFPint (W/(m³/s))* | | 1155 W/(m³/s) |
| Face velocity at nominal flow rate (m/s)* | | 1.82 m/s |
| Nominal External Pressure Δps,ext (Pa) | | 248 Pa |
| Internal pressure drop of ventilation components Δps,int (Pa)* | | 328 Pa |
| Static efficiency of fans ηs,Fan** | | 54.2 % |
| Leakage rate (%) | Cold climate | 3.4 % |
| | Average climate | 4.7 % |
| | Warm climate | not applicable |
| Classification of air filters | | fresh air: F7 (ePM1 70%) extraction: M5 (ePM10 50%) |
| Position and description of visual filter warning | | S4, 3V e PT versions: signal lamp on the unit (possibly removable) 3E version: LED signal on remote control SE version: Alarm contact removable EL, EB and ET versions: Alarm displayed on remote display |
| Sound power level (Lwa in dB(A))* | | 64 dB(A) |
| Internet address for preassembly and disassembly instructions | | www.massenergy.it |

* according to EU regulation no. 1253/2014

** calculated according to EU regulation no. 327/2011

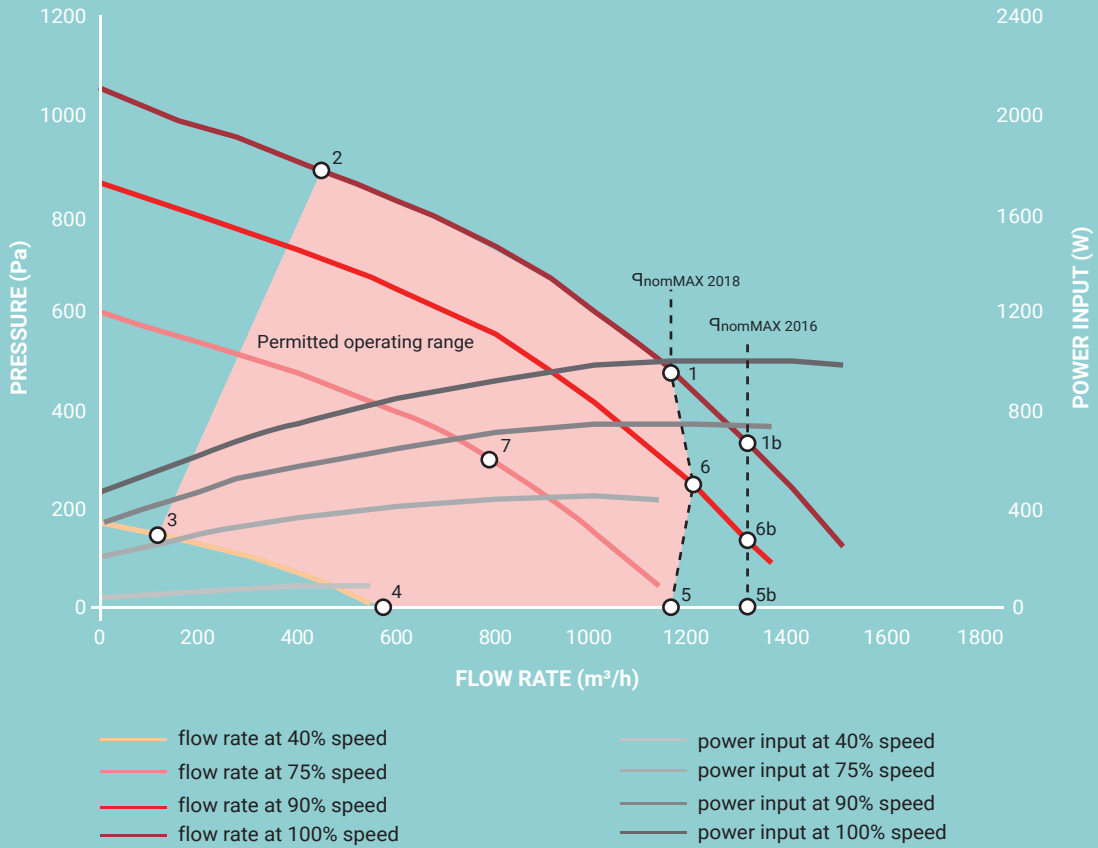


AERULIC PERFORMANCE

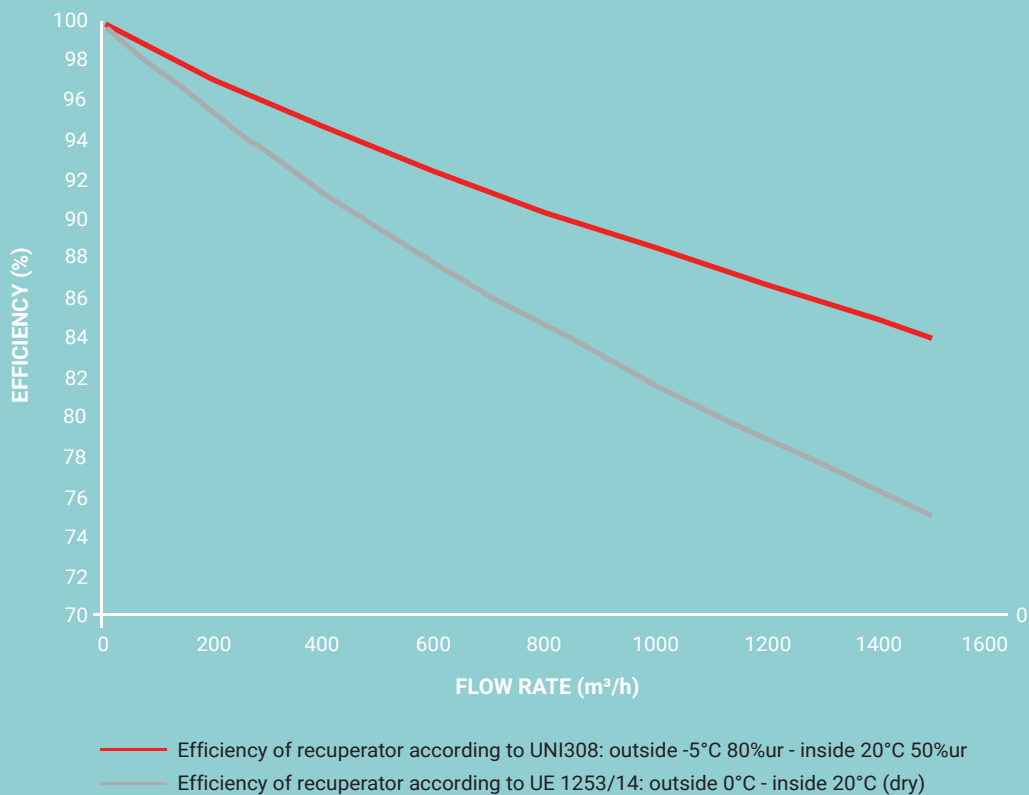
| | Nominal Flow Rate (m³/h) | Nominal Flow Rate Q _{nom} (m³/s) | Fan Efficiency η _{s,Fan} (%) | Exchanger Efficiency η _{t_nrvu} (%) | Sound Power Lwa (dB(A)) | Internal Specific Power SFPint (W/(m³/s)) | Nominal External Pressure Δps,ext (Pa) |
|----|-----------------------------|--|--|---|----------------------------|--|---|
| 1 | 1150 | 0.319 | 53.9 | 80.5 | 66 | 1224.9 | 486 |
| 1b | 1300 | 0.361 | 54.5 | 78.8 | 65 | 1419.7 | 345 |
| 2 | 445 | 0.124 | 34.1 | 90.7 | 72 | 745.9 | 890 |
| 3 | 121 | 0.034 | 19.4 | 97.2 | 54 | 249.7 | 147 |
| 4 | 550 | 0.153 | 39.7 | 88.9 | 49 | 526.7 | 9 |
| 5 | 1150 | 0.319 | 48.6 | 80.5 | 62 | 1251.6 | 0 |
| 5b | 1300 | 0.361 | 49.2 | 78.8 | 64 | 1495.9 | 0 |
| 6 | 1200 | 0.333 | 54.2 | 79.9 | 63 | 1246.7 | 248 |
| 6b | 1300 | 0.361 | 53 | 78.8 | 64 | 1420.9 | 150 |
| 7 | 788 | 0.219 | 50.8 | 85.2 | 61 | 744 | 304 |



AERAILIC PERFORMANCE



THERMAL EFFICIENCY OF HEAT RECUPERATOR





MASS ENERGY

INTELLIGENT USE OF ENERGY

DESIGN

REALIZATION

SUPPLY

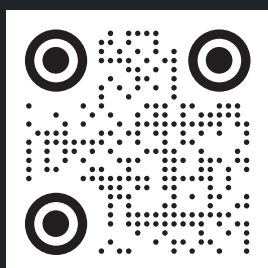
INSTALLATION

TESTING

AFTER SALES SERVICE



TURNKEY SUPPLY
FOR TAILOR-MADE SOLUTIONS



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