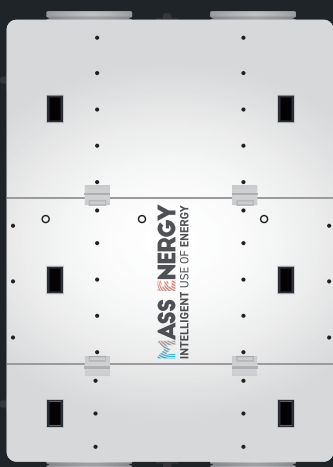




MASS ENERGY



TFD

C L I M A

DYNAMIC FLOW TECHNOLOGY
CLIMA

VENT 160 H

INTELLIGENT USE OF ENERGY




TFD


C L I M A


VENT 160 H


DYNAMIC FLOW TECHNOLOGY
CLIMA

 Maximum flow rate (SFPLimit2018) 1550 m³/h with 220 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; 40 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 (L_{pa} in dB(A)): 56 dB(A)

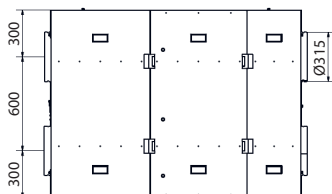
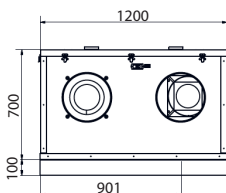
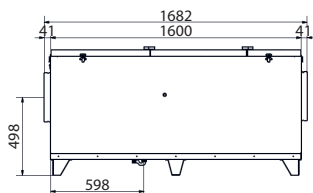
 Free-cooling/free-heating built-in bypass (either manual, engine-driven or automatic)

 **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%

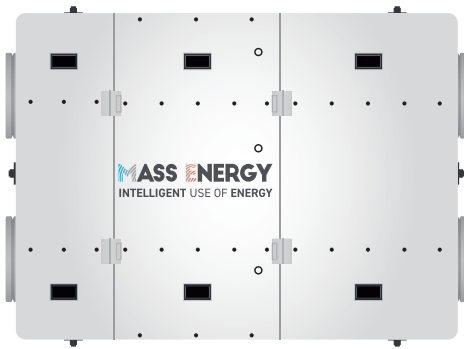
DIMENSIONS



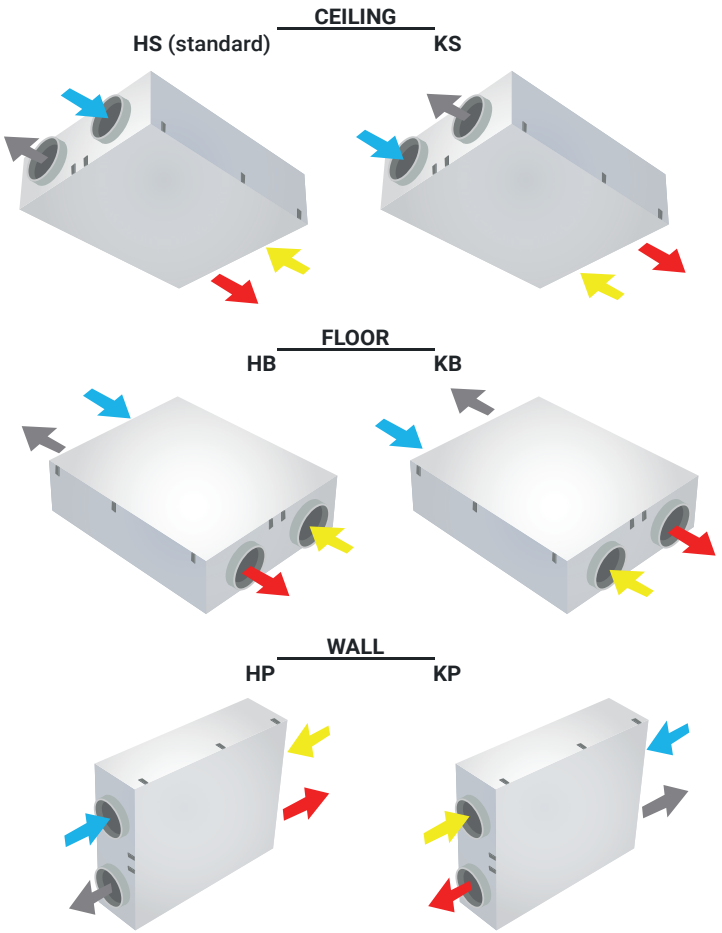
Dimensions, excluding sleeves and condensation drain (w x d x h):
1200x1600x700 mm

Nominal pipes size:
Ø315mm

Weight:
160 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)



TFD

C L I M A

Supplier's name		MASS ENERGY Srl	
Model identification code		CLIMA VENT 160 H	
Typology of product		CLIMA VENT, bidirectional	
Type of drive		Variable speed	
Heat recovery system		Counter-current flow	
Thermal efficiency of heat recovery*		81.9%	
Nominal flow rate (m³/s)		0.431 m³/s	
Effective electric power input (kW)		0.966 kW	
Specific internal fan power SFPint (W/(m³/s))*		1303 W/(m³/s)	
Face velocity at nominal flow rate (m/s)*		1.63 m/s	
Nominal External Pressure Δps,ext (Pa)		220 Pa	
Internal pressure drop of ventilation components Δps,int (Pa)*		319 Pa	
Static efficiency of fans ηs,Fan**		50.4 %	
Leakage rate (%)	Cold climate	3.9 %	
	Average climate	5.4 %	
	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))*		68 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

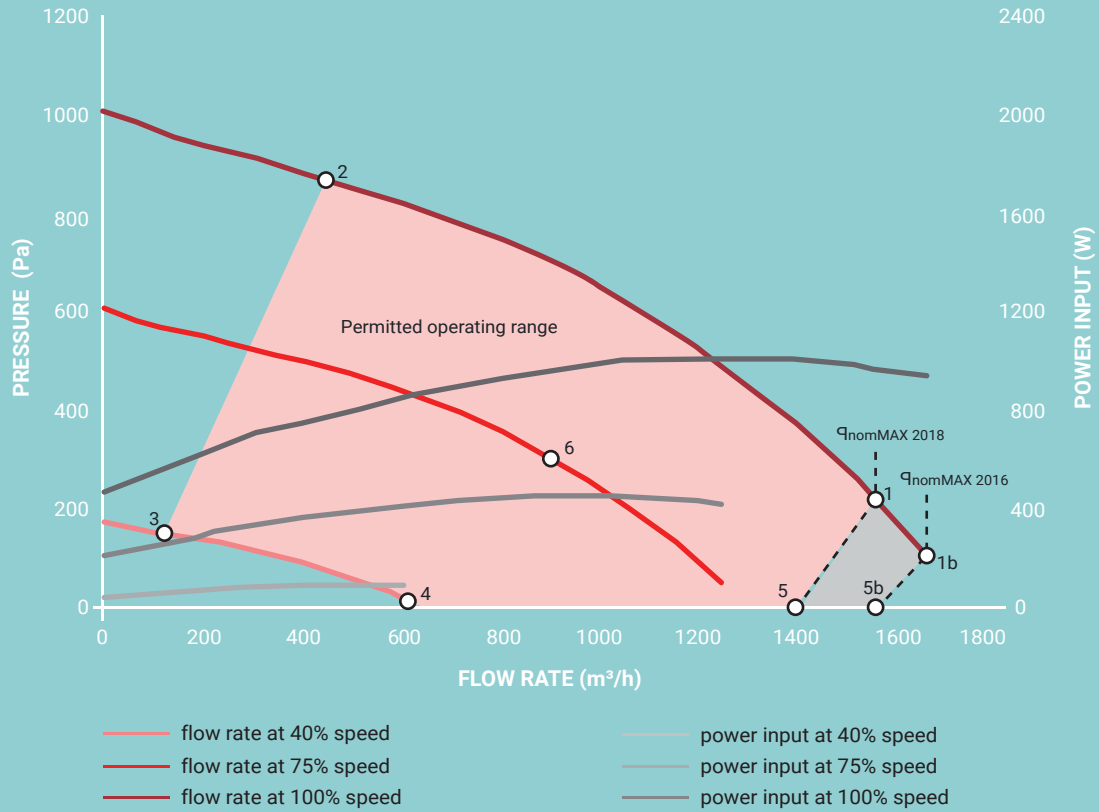


AERAULIC PERFORMANCE

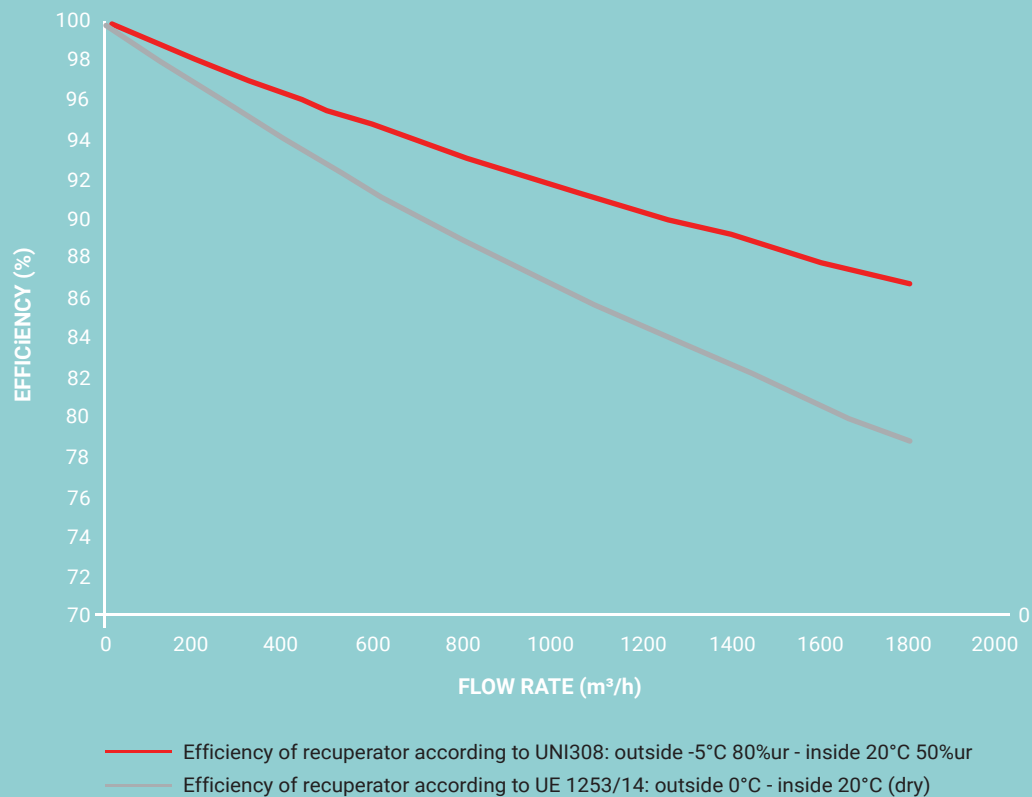
	Nominal Flow Rate (m³/h)	Nominal Flow Rate Q _{nom} (m³/s)	Fan Efficiency η _{s,Fan} (%)	Exchanger Efficiency η _{t_nrvu} (%)	Sound Power Lwa (dB(A))	Internal Specific Power SFPint (W/(m³/s))	Nominal External Pressure Δps,ext (Pa)
1	1550	0.431	50.4	81.9	67	1302.9	220
1b	1660	0.461	45.6	81	68	1526.9	102
2	445	0.124	34.1	93.5	72	918.3	862
3	121	0.034	19.4	98.1	54	211.7	150
4	606	0.168	38.1	91.5	50	416	17
5	1400	0.389	39	83.2	65	1331.2	0
5b	1550	0.431	38.4	81.9	65	1576.7	0
6	902	0.251	52.6	88.1	60	564.3	301



AERAILIC PERFORMANCE



THERMAL EFFICIENCY OF HEAT RECUPERATOR





MASS ENERGY

INTELLIGENT USE OF ENERGY

DESIGN

REALIZATION

SUPPLY

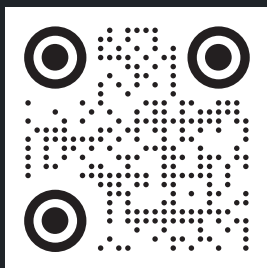
INSTALLATION

TESTING

AFTER SALES SERVICE



TURNKEY SUPPLY
FOR TAILOR-MADE SOLUTIONS



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