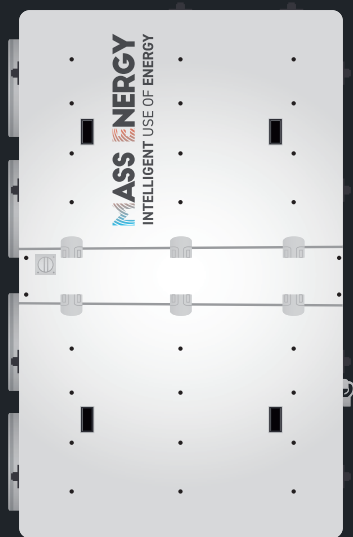




**MASS ENERGY**



**TFD**

C L I M A

DYNAMIC FLOW TECHNOLOGY  
CLIMA

**VENT 400 V**

**INTELLIGENT USE OF ENERGY**















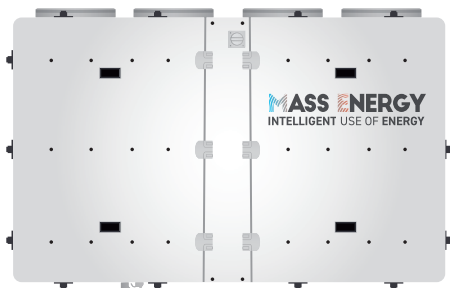
# TFD

C L I M A

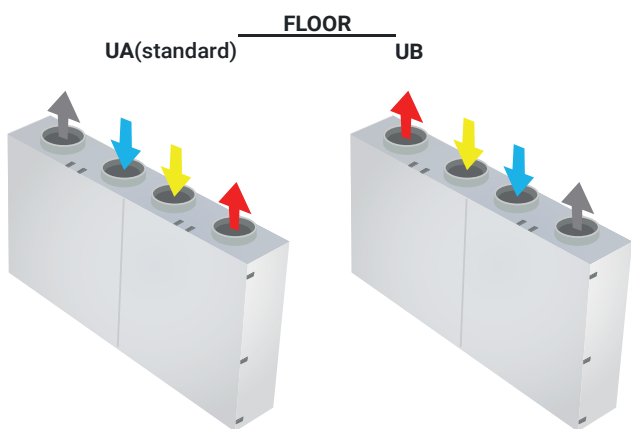
## VENT 400 V

DYNAMIC FLOW TECHNOLOGY  
CLIMA

-  Maximum flow rate (SFPLimit2018) 3600 m<sup>3</sup>/h with 243 Pa of useful pressure
-  Aluminum, counter-current flow heat recuperator with 90% + efficiency
-  Energy efficient, EC centrifugal fans with backward-curved blade
-  Low pressure drop filters: F7 (ePM1 70%) for fresh air and M5 (ePM10 50%) for extraction
-  Pre-painted sheet self-supporting structure; 40 mm-thick stone wool thermal/sound insulation
-  Nominal voltage: 400 V 3F 50-60 Hz
-  Power input at max flow rate: 3,3A 2kW
-  Sound pressure level at 1,5m (L<sub>pa</sub> in dB(A)): 53 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%

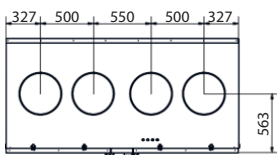
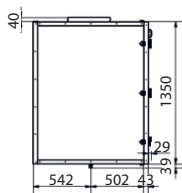
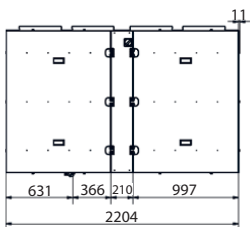


## CONFIGURATIONS



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

## DIMENSIONS



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

2100x1350x1090 mm

Nominal pipes size:  
Ø400 mm

Weight:  
420 kg



# PRODUCT FICHE

According to EU regulation no. 1253/2014 and no. 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 400 V
Typology of product		CLIMA VENT, bidirectional
Type of drive		Variable speed
Heat recovery system		Counter-current flow
Thermal efficiency of heat recovery*		80,8%
Nominal flow rate (m <sup>3</sup> /s)		1,000 m <sup>3</sup> /s
Effective electric power input (kW)		2,102 kW
Specific internal fan power SFPint (W/(m <sup>3</sup> /s))*		1177 W/(m <sup>3</sup> /s)
Face velocity at nominal flow rate (m/s)*		1,94 m/s
Nominal External Pressure Δps,ext (Pa)		243 Pa
Internal pressure drop of ventilation components Δps,int (Pa)*		324 Pa
Static efficiency of fans ηs,Fan**		56,6 %
Leakage rate (%)	Cold climate	6,5 %
	Average climate	6,1 %
	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))*		66 dB(A)
Internet address for preassembly and disassembly instructions		<a href="http://www.massenergy.it">www.massenergy.it</a>

\* according to EU regulation no. 1253/2014

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

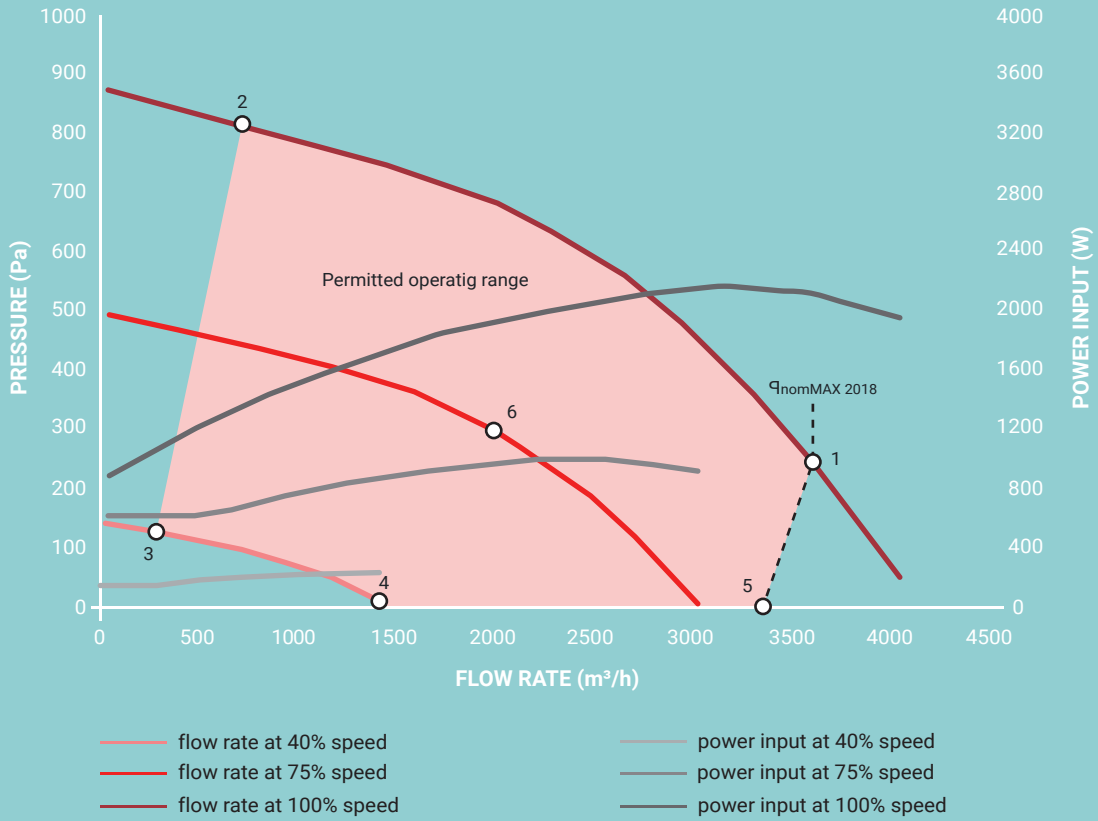


## AERAILIC PERFORMANCE

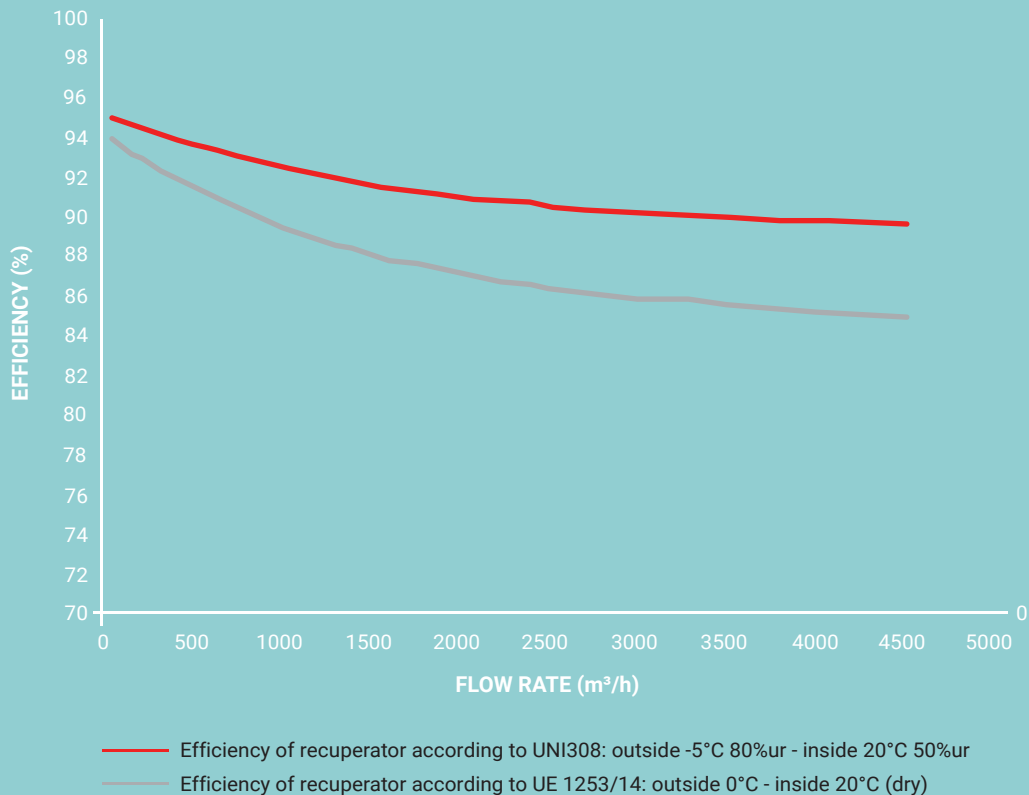
	Nominal Flow Rate (m <sup>3</sup> /h)	Nominal Flow Rate Q <sub>nom</sub> (m <sup>3</sup> /s)	Fan Efficiency η <sub>s,Fan</sub> (%)	Exchanger Efficiency η <sub>t,nrvu</sub> (%)	Sound Power Lwa (dB(A))	Internal Specific Power SFPint (W/(m <sup>3</sup> /s))	Nominal External Pressure Δps,ext (Pa)
1	3600	1.000	56.6	80.8	66	1177.1	243
2	723	0.201	27.9	87.5	72	607.3	809
3	287	0.080	16.9	90.1	55	192.1	124
4	1408	0.391	34.7	84.5	49	494.2	9
5	3380	0.939	48.6	81	63	1197.5	0
6	2003	0.556	53.9	82.9	62	560.8	293



## AERAILIC PERFORMANCE



## THERMAL EFFICIENCY OF HEAT RECUPERATOR





# MASS ENERGY

INTELLIGENT USE OF ENERGY

DESIGN

REALIZATION

SUPPLY

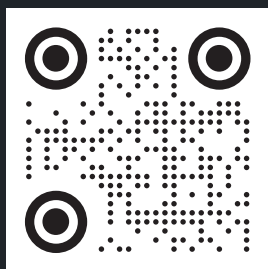
INSTALLATION

TESTING

AFTER SALES SERVICE



TURNKEY SUPPLY  
FOR TAILOR-MADE SOLUTIONS



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20060 Pessano con Bornago (MI)  
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