

CPAN-U 200 - 650

Fresh air with active thermodynamic recovery for internal installation



DF09M002GB-00

ELFOFresh² eliminates the pollution in the buildings where we live

It expels unhealthy air and, at the same time, introduces **purified and air-conditioned outdoor air**. With the **electronic filters** on outdoor air, acting as high-efficiency electrostatic purifier, it minimises suspended pollutants such as **smoke, fine dust, viruses and bacteria**. At the same time it reduces the high ventilation consumption generated by the **pressure drops common to traditional filters** and it also gets rid of the need to change periodically traditional filters because electronic filters can be regenerated **by washing**.



ELFOFresh² is a high-efficiency active thermodynamic recovery unit

Unlike traditional systems, the active thermodynamic circuit **recovers all year-round the energy contained in the flow of exhaust air**, it multiplies it thanks to heat pump technology and then provides it to the served areas of the building. In this way it minimises the external fresh-air load and provides **additional capacity** to maintain comfort conditions.

ELFOFresh² simplifies the system and increases its efficiency

Thanks to the packaged system construction, the system components and their installation are already included **inside the unit**. In addition, the energy generated by the active thermodynamic recovery **reduces the power and therefore the cost of the additional air-conditioning system**. This comprehensive high-efficiency reduces the user's primary energy consumption even up to 40%.



Refrig. R-410A



Indoor Inst



ELFOControl



Herm. Rotative

Technical Data

Sizes			200	300	500	650
CPAN-U						
HC / Pa / COP	(1)	kW	1.82 / 0.42 / 4.33	2.31 / 0.57 / 4.05	3.60 / 0.79 / 4.56	5.02 / 1.21 / 4.15
Hc / Pa / COP	(2)	kW	1.87 / 0.34 / 5.50	2.36 / 0.41 / 5.75	3.75 / 0.63 / 5.95	5.12 / 0.94 / 5.45
CC / Pa / EER	(3)	kW	1.56 / 0.52 / 3.00	2.10 / 0.67 / 3.13	2.96 / 0.98 / 3.02	3.96 / 1.40 / 2.83
CC / Pa / EER	(4)	kW	1.57 / 0.55 / 2.85	2.02 / 0.70 / 2.89	2.86 / 1.04 / 2.75	3.86 / 1.45 / 2.66
Nominal air flow		m ³ /h	200	300	500	650
Fun absorbed capacity	(5)	W	40	52	90	150
Max available head		Pa	120	120	120	120
Operation limit in heating	(6)	°C	-15	-15	-15	-15
Operation limit in cooling	(7)	°C	40 (38)	40 (38)	40 (38)	40 (38)
Sound pressure level	(8)	dB(A)	39	41	44	46
Power supply		V/Ph/Hz	230/1/50			

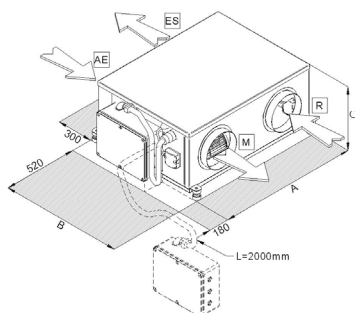
Data referred to the following conditions

Data according to EN14511:2004 directive and referred to an available head of 50Pa. In cooling the unit can work in load reduction to assure a specific humidity of the inlet air equal to the set-point one.

- (1) Heating capacity/Absorbed capacity/COP; External air temperature 7°C D.B. / 6°C W.B., exhaust air temperature 20°C D.B. / 15°C W.B.
 (2) Heating capacity/Absorbed capacity/COP; External air temperature -5°C D.B. / -5.4°C W.B., Exhaust air temperature 20°C D.B. / 15°C W.B.
 (3) Cooling capacity/Absorbed capacity/EER; External air temperature 30°C D.B. / 22°C W.B., Exhaust air temperature 27°C D.B. / 19°C W.B.
 (4) Cooling capacity/Absorbed capacity/EER; External air temperature 35°C D.B. / 24°C W.B., Exhaust air temperature 27°C D.B. / 19°C W.B.
 (5) Capacity referred to heating operation at the condition (2) Attention in COP and EER is already included

the fun absorbed capacity. We give this information for the Energy certification programmes. If you insert this data you have to consider the COP without the fun absorbed capacity.

- (6) In the places where the external air temperature is under -5°C for many hours in a year we advice the use of the EHPCX accessory—electric heater kit in duct
 (7) with UR = 40%; in brackets the limit value to assure the specific humidity of the inlet air of 10.5 g/kg with a reduction of max flow of 50%
 (8) Sound levels refer to units with full load under nominal test conditions. (1m)



Sizes		200	300	500	650
Lenght (A)	mm	803	803	1038	1038
Width (B)	mm	704	704	792	792
Height (C)	mm	364	364	423	423
Operation weight.	Kg	70	75	95	100

Data referred to standard unit.

ATTENTION!

For a good unit operation it is important to respect the conditions

CLIVET S.p.A.

Via Camp Lonc 25
 32032 Z.I. Villapaiera Feltre BL
 Tel. + 39 0439 3131
 Fax. + 39 0439 313382
info@clivet.it