

ELFOFresh²

CPAN-U 500

Mechanical ventilation unit with thermodynamic heat recovery

ENERGY SAVING



Free Cooling / Heating

COMFORT



Hot Cold



Dehumidification

RELIABILITY



Condensate drain pump (optional)



Backup heater (optional)

HEALTH



High density filter



Fresh air renewal



Purification renewal



Energy renewable

CONVENIENCE



Weekley Timer

MANAGEMENT AND CONNECTIVITY



Input ON/OFF



Port Modbus



ELFOControl management



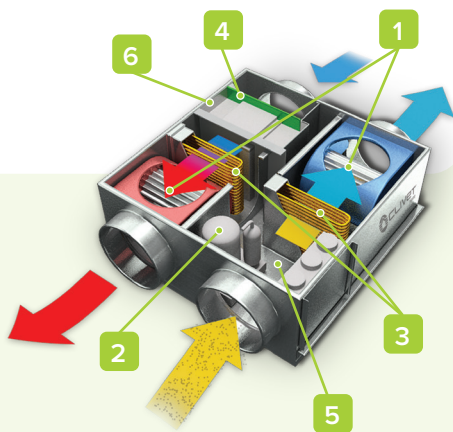
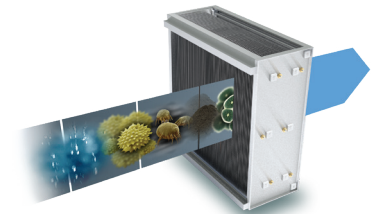
Clivet Eye monitoring



- ✓ Innovative heat recovery system that alone fulfils up to 80% of the building's demands
- ✓ Much more efficient than a traditional passive recuperator, especially in spring and autumn
- ✓ Humidity control: perfect for coupling with radiant panel cooling systems
- ✓ Purifies the air with the high efficiency electrostatic filter (optional)
- ✓ Designed for large environments, ideal for buildings from 350 to 600 m²

Fresh air

ELFOFresh² expels the exhaust air and supplies purified, air-conditioned outdoor air. Harmful elements in the outdoor air are eliminated by the efficient filtration system, also active on fine dust and nanoparticles, which are the most dangerous to human health as they reach the alveoli of the lungs and from there enter the bloodstream. The optional electrostatic filter makes outdoor air filtration even more efficient and simultaneously reduces ventilation and maintenance costs compared to traditional systems.












- | | |
|-----------------------------|----------------------------------|
| 1. Inverter DC fan | 4. Outdoor air filter |
| 2. Rotary compressor | 5. Exhaust air filter (optional) |
| 3. Air-gas finned exchanger | 6. Remote electrical panel |

configurations

FEATURES:

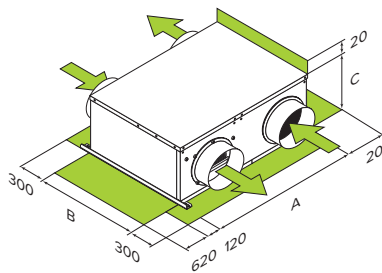
- Standard
- OHO heating only

accessories

	FESX	Electronic filter kit		AL12X	Power supply unit for HID-Ti5 thermostats and HID-UR sensor
	FAEX	Kit of exhaust air filter		HSE3MX	Immersed electrode steam humidifier for Elfotresh DN250
	CDPX	Condensate drain pump		HIDI52BX	Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. Colour white
	CMMBX	Serial communication module for supervisor (Modbus)		HIDI52NX	Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. Colour black
	EHPCX	Preheating elements in duct			

Note: see the ELFOAir section for the aeraulic distribution systems

dimensions and connections



For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Size			500
Dimensions	AxCxB	mm	1158x407x752
Weight		kg	92,5
Refrigerant charge		tipo / GWP	R-410A / 2088
		kg	1,45
		CO ₂ tons	1,62
External diameters	Air	mm	250
	Condensate drain	mm	26

technical data

Size				500	
Ventilation	Airflow	Nominal	m ³ /h	500	
	Available pressure	Nominal / Maximum	Pa	40 / 120	
	Fresh Air	-	-	100%	
	Filters type	-	-	Folded filter	
	Filtration class	-	-	Coarse 50%	
Winter recovery	Heating capacity	Ambient air 20°C/50% UR	Nominal	kW	3,58
	COP	Outdoor air 7°C/6°C WB	Nominal	-	4,27
	Heating capacity	Ambient air 20°C/50% UR	Nominal	kW	3,74
	COP	Outdoor air -5°C/80% UR	Nominal	-	5,57
Summer recovery	Cooling capacity	Ambient air 26°C/50% UR	Nominal	kW	3,13
	EER	Outdoor air 35°C/50% UR	Nominal	-	2,86
	Electrical power for meter sizing			kW	1,51
Power supply	Voltage/Frequency/Phases		V/Hz/n°	400/50/3+N	
Sound power		Nominal	dB(A)	62	
Sound pressure @1m		Nominal	dB(A)	48	
Operating range					
Operating range (Indoor air)	Heating	Minimum / Maximum	°C	16 / 28	
	Cooling	Minimum / Maximum	°C	18 / 30	
Operating range (outdoor air)	Heating	Minimum / Maximum	°C	-15 / 25	
	Cooling	Minimum / Maximum	°C	15 / 40	

Data according to EN 14511:2018 and referring to available pressure of 50 Pa. In cooling mode, the unit can reduce the capacity to ensure specific humidity of the air supplied at the set-point

(1) In locations where the temperature drops below -5 °C for a substantial number of hours per year, it is advisable to use the EHPCX duct preheating heater kit