

# ELFOPack

The air to air heat pump system with active thermodynamic heat recovery

It covers 75% of energy needs using free and unlimited renewable energy contained in the air.

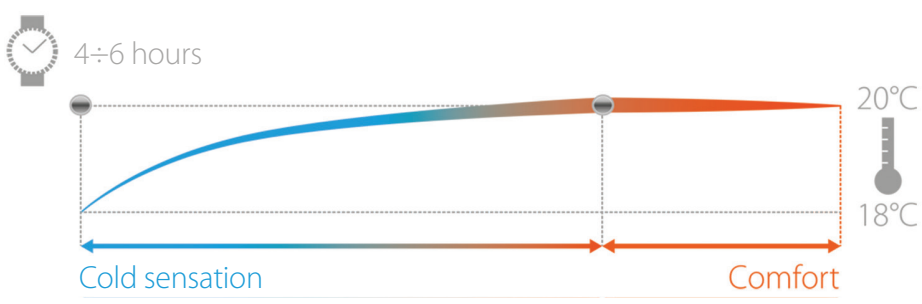
It recovers the energy from the exhaust air thanks to the active thermodynamic heat recovery.

- ▶ **The mechanical controlled ventilation system is essential** not only for energy saving, but also for a healthy environment.
- ▶ **The harmful elements and odors in the air are eliminated** by the efficient electronic filtration system
- ▶ **The low energy requirement of ELFOPack** means that in some cases, where photovoltaic systems are installed, the energy generated is sufficient to operate the ELFOPack system, helping the building to **become self sufficient**

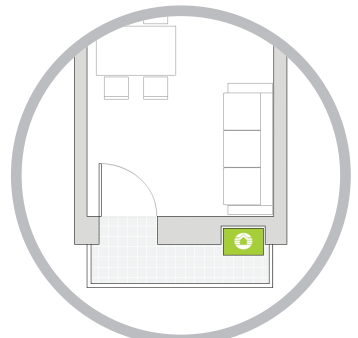
## COMFORT THROUGH THE AIR

**Continuous and rapid adaptation to the desired comfort conditions.**

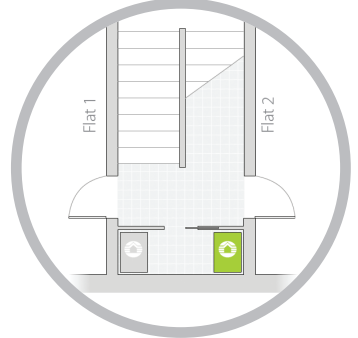
Thanks to the lower thermal inertia, the air to air air-conditioning system allows you to reach the desired comfort conditions in a much shorter time than traditional air to water air-conditioning systems. This feature is particularly appreciated in areas with frequent temperature variations typical of Mediterranean climates.



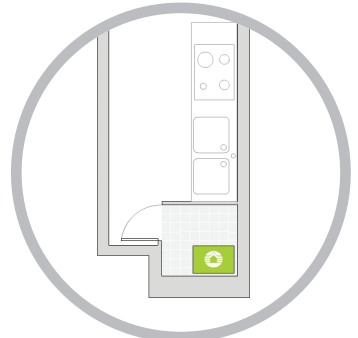
### DESIGN FLEXIBILITY



On the balcony

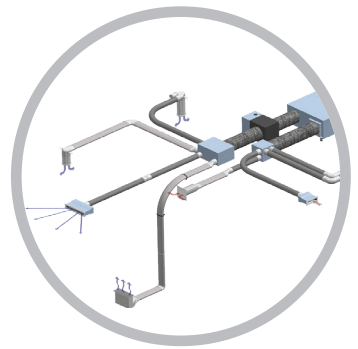


In the stairwell



In the closet

### DISTRIBUTION



It can be connected to Clivet ELFOAir distribution system

## ADD VALUE TO YOUR PROPERTY



Thanks to the benefits detailed above and the use of heat pump technology, ELFOPack demonstrates **reduced running costs and energy consumption, which will contribute to adding value to your property.**

- A** ELFOPack
- C** Traditional system (boiler - radiators - thermal solar)

**Standalone system**, with one packaged unit. This means that there is no requirement for a boiler, the associated pipework and the control system.

**Complete system**, that removes the need for heat emitters, fancoil units, radiators or radiant panels. The ELFOPack provides complete comfort distributed through a simple ducted air system, offering complete design freedom.

**Simple installation, due to its “plug and play” design**, no specialist trades are required for the installation of the unit. As there is no gas requirement, this can also contribute to a reduction in the overall build cost.

**User friendly controller**, offers simple operation of the unit, managing all aspects of the system from a single point.

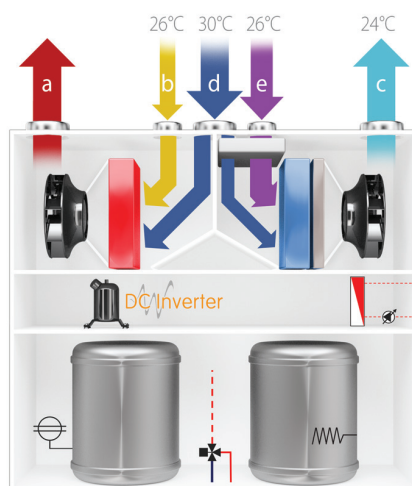
**Total safety**, if combined with an induction hob cooker, the requirement for gas can be removed from the installation, taking away the need to install a gas main, and saving cost on the project, as well as creating a gas free, safe environment.

### WINTER



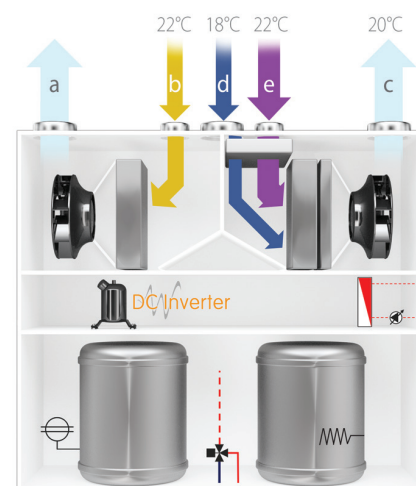
The compressor adjusts its capacity, which is distributed to purify the air and constantly produce Domestic Hot Water. The constant and simultaneous production of Domestic Hot Water increases the **system's efficiency**. During extreme conditions, the post-handling coil is activated as an additional coil.

### SUMMER



Intake air is dehumidified as well as being treated and brought to the right temperature as a function of the load. The compressor adjusts its capacity in relation to indoor conditions. All the heat taken from cooling the intake air is recovered and transferred to produce **free Domestic Hot Water**.

### MID-SEASON



Under optimal conditions, outdoor air is mixed with recirculated air to obtain the correct temperature, negating the need to activate the compressor (**free-cooling**). Domestic Hot Water is produced by turning off the supply air handling exchanger.

# ELFOPack

## (CPAR-XIN 5)



### TECHNICAL DATA

Size – CPAR-XIN			5
▶ Heating capacity	(1)	kW	3,18
Thermodynamic SCOP	(2)	-	3,83
▶ Cooling capacity	(3)	kW	2,14
Thermodynamic SEER	(2)	-	2,95
Maximum air flow rate in the room		m <sup>3</sup> /h	400
Maximum air flow taken from the bathrooms and the kitchen		m <sup>3</sup> /h	100
Maximum air flow of internal ambient recirculation		m <sup>3</sup> /h	300
Maximum air flow air intake from outside		m <sup>3</sup> /h	400 of which 100 fresh air
Maximum air flow of outside expelled air		m <sup>3</sup> /h	400 of which 100 extraction air
Available head		Pa	120
Compressor type	(4)	-	ROT DC-Inverter
DHW tank		l	180
DHW tank temperature		°C	40/60
Safety electric heater		kW	1,20
Standard power supply		V/f/Hz	230/1/50

#### Notes

- (1) Overall heating capacity for transmissions + ventilation + domestic hot water production (4 people - 50 litres/day per person). Conditions: outdoor air 7°C DB, 6.1°C WB, renewal and recirculation stale air 20°C DB.
- (2) SCOP / SEER average thermodynamic seasonal efficiency of a home in Milan with an overall demand for transmissions, ventilation and domestic hot water (4 people - 50 litres/day per person) equal to the overall heating capacity provided by ELFOPack as per project specifications (-5°C). The average thermodynamic seasonal efficiency does not take into account the energy absorbed by the fans, as it depends on the pressure drops of the aeraulic distribution of each specific installation.
- (3) Total cooling capacity for transmissions + ventilation. Production of domestic hot water (4 people - 50 litres/day per person) with total recovery. Conditions: outdoor air 35°C DB, renewal and recirculation stale air 26°C DB.
- (4) ROT DC Inverter = DC Inverter rotary compressor

# Air-air reversible heat pump with active thermodynamic heat recovery



Refrigerant R-410A



Active therm. recovery



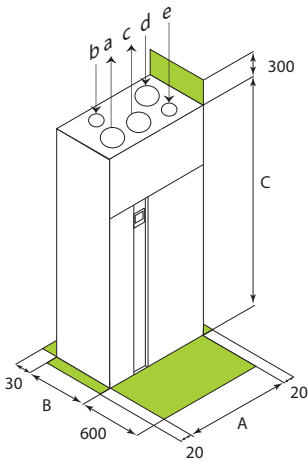
Full Inverter DC

## ACCESSORIES

<b>Size - CPAR-XIN</b>	<b>5</b>
<b>Basic configuration (230/1/50)</b>	std
<b>HIDTi5<sup>®</sup>BX</b>	Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. White
<b>HIDTi5<sup>®</sup>NX</b>	Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. Black
<b>AL12X</b>	Power supply unit for HIDTi52 thermostats and HID-UR sensor

Accessories whose code ends with "X" are separately supplied.  
ELFOAir accessories are available in the dedicated page.

## DIMENSIONS



- (a) Exhaust outdoors
- (b) Stale air extraction (bathrooms and kitchen)
- (c) Supply into the room
- (d) Fresh air intake
- (e) Indoor air recirculation intake

<b>Size - CPAR-XIN</b>		<b>5</b>
A - Length	mm	812
B - Width	mm	460
C - Height	mm	2180
Operating weight	kg	400

The above mentioned data are referred to standard units.

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



ZASTOPNIK IN DISTRIBUTER ZA SLOVENIJO

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