

ELFOPack

CPAR-XIN 5

Stand-alone air-to-air system for heating, cooling, domestic hot water production, and air renewal with thermodynamic heat recovery

ENERGY SAVING



Free Cooling / Heating



nZEB

COMFORT



Heating Cooling



DHW



Dehumidification

HEALTH



Fresh air renewal



Air purification



Renewable energy

CONVENIENCE



Contemporaneity



Integrated DHW tank

MANAGEMENT AND CONNECTIVITY



Potential-free contact



Modbus port



ELFOControl management



Clivet Eye monitoring



- ✓ Most of the capacity delivered is the result of recovery: it's free, renewable and green
- ✓ No need for a central heating plant, hydraulic distribution, diffusion terminals, chimney or metering system
- ✓ Purifies the air with the standard supplied high efficiency electrostatic filter
- ✓ Designed to be combined with photovoltaic solar collector for nearly zero consumption and energy self-sufficient houses
- ✓ Comfort and seasonal efficiency due to the inverter compressor

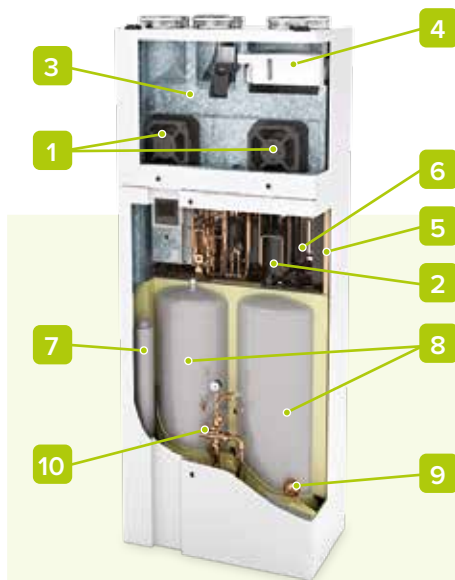
A complete system

ELFOPack is an air conditioning system that, thanks to its extremely low inertia, makes a flat comfortable in a much shorter time than traditional systems.

It is a complete stand-alone system, it does not require space for the central heating plant, hydraulic distribution, installation of heat diffusion terminals, flue gas chimney or metering system: in other

words, it leaves you completely free to design your own space. Combined with induction cooking, it frees you from the costly use of gas, associated administrative paperwork and charges. It simplifies your life and respects the environment!

STAND-ALONE SYSTEM



1. Inverter DC fan
2. Inverter DC rotary compressor
3. Air-gas finned exchanger
4. Electrostatic filter
5. Gas/water plate exchanger
6. Inverter DC high efficiency pump
7. 4L DHW expansion tank
8. 90L DHW storage tank
9. 1.2kW DHW safety heater
10. Anti-scalding valve

accessories



HIDTI52BX

Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. White



HIDTI52NX

Temperature and humidity thermostat / Remote control with touch screen display, for built-in installation (box 503) or for wall installation. Black

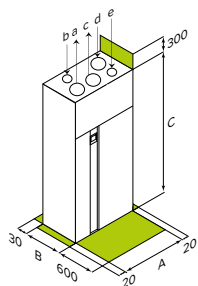


AL12X

Power supply unit for HIDTI52 thermostats and HID-UR sensor

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.

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

Size		5	
Dimensions	Length(A) x Height (C) x Depth(B)	mm	812x2.180x460
Weight		kg	400
Refrigerant charge		type/GWP	R-410A / 2088
		kg	1,20
		CO ₂ tons	2,50
External diameter	Water	inch	1/2"
	Intake air	mm	200
	Extracted air	mm	150
	Intake air	mm	150
	Exhaust air	mm	200
	Outdoor air	mm	200

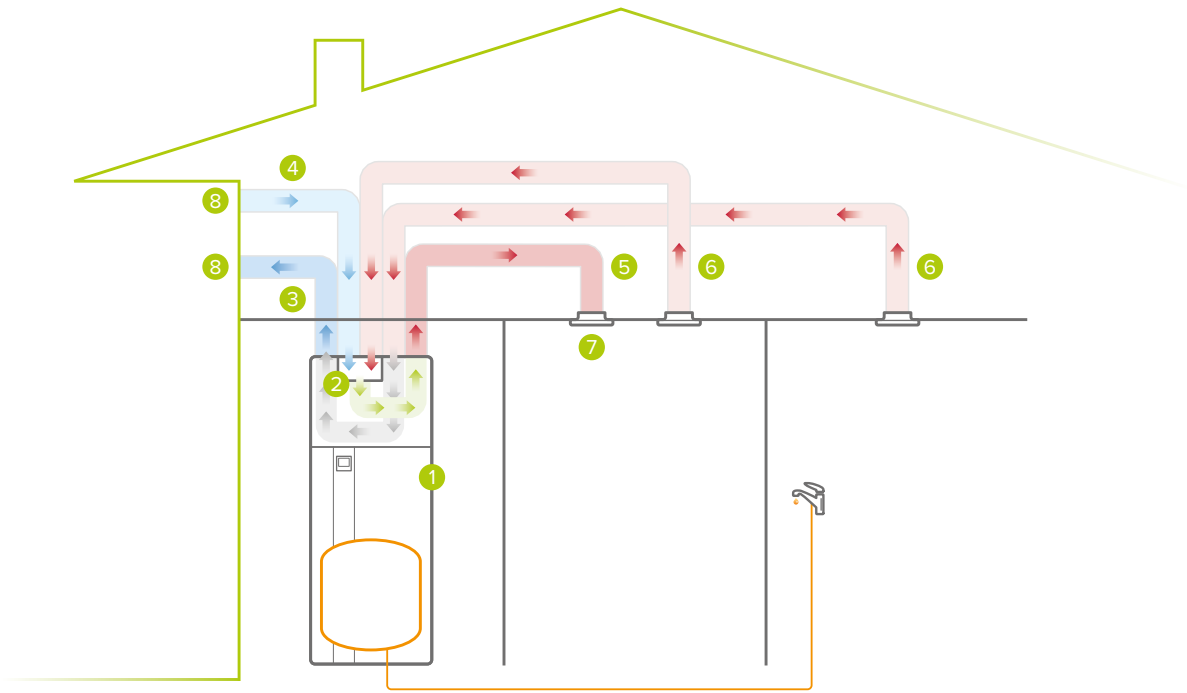
technical data

Size					5
Heating • transmissions • ventilation • DHW production	Capacity ¹	Indoor unit 20°C Outdoor unit 7°C/6°C wb		kW	3,18
	SCOP thermodynamic ²	DHW for 4 people / 50l / day per person		-	3,83
Cooling • transmissions • ventilation • DHW with total recovery	Capacity ³	Indoor unit 26°C Outdoor unit 35°C		kW	2,14
	SEER thermodynamic ²	DHW for 4 people / 50l / day per person		-	2,95
DHW	Net tank capacity			l	175
	Mixed water at 40°C			l	190
	Heating time			h:min	01:25
Electrical power for meter sizing				kW	1,16
Electric heater				kW	1,20
DHW	Energy class			-	A
	DHW profile			-	XL
	ηs (seasonal output)			%	90
	Intake airflow	Total (Renewal / Recirculation)	Maximum	m³/h	400
	Extracted airflow		Maximum	m³/h	100
Ventilation	Aspiration airflow	Total (Renewal / Recirculation)	Maximum	m³/h	300
	Exhaust airflow		Maximum	m³/h	400
	Available pressure		Maximum	Pa	120
	Filters type		-	-	Electronic
	Filtration class		-	-	ISO 16890 ePM1 90%
Power supply	Voltage/Frequency/Phases			V/Hz/n°	230/50/1
Operating range					
Operating range (Indoor air)	Heating		Minimum / Maximum	°C	5 / 30
	Cooling		Minimum / Maximum	°C	15 / 34
Operating range (Outdoor air)	Heating		Minimum / Maximum	°C	-10 / 35
	Cooling		Minimum / Maximum	°C	8 / 39
	DHW			°C	-10 / 35
Water supply temperature	DHW		Maximum	°C	55

(1) Overall heating capacity for transmissions + ventilation + domestic hot water production

(2) SCOP / SEER average thermodynamic seasonal efficiency of a home in Milan with an overall demand for transmissions, ventilation and domestic hot water 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 with total recovery



Autonomous system for heating/cooling/DHW/air renewal

- 1 multifunction heat pump
- 2 electrostatic filters
- 3 exhaust air duct (optional)
- 4 fresh air duct (optional)
- 5 intake air duct (optional)

- 6 extracted air duct (optional)
- 7 supply grille (optional)
- 8 exhaust grille (optional)

Note: for the distribution system in detail see the ELFOAir section