

ELFOEnergy Extended Inverter

WSAN-XIN 141÷171 (EXCELLENCE)

Air-to-water packaged monobloc heat pump for heating, cooling and domestic hot water production (optional)

ENERGY SAVING



Cascade (optional)

COMFORT



Heating Cooling



DHW (optional)

RELIABILITY



Eurovent

HEALTH



Renewable energy

CONVENIENCE



Weekly schedule



Boiler integration

MANAGEMENT AND CONNECTIVITY



Potential-free contact



Wired control (optional)



Modbus Port (optional)



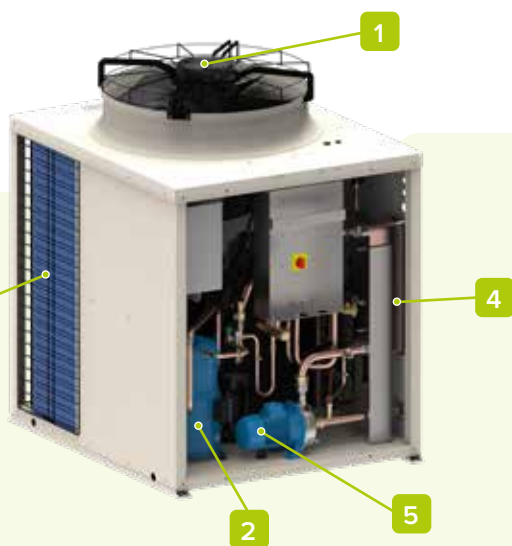
ELFOControl management (optional)



Clivet Eye monitoring (optional)



- ✓ Ideal for centralised systems with up to 50 kW capacity, such as in apartment blocks or hotels
- ✓ Option of connecting up to 4 units in cascade, for even greater demands
- ✓ Comfort and seasonal efficiency due to the inverter compressor
- ✓ Supervision via Modbus port (optional) with connection to BMS system or ELFOControl



1. EC plug-fan
2. Inverter scroll compressor
3. Air-gas finned exchanger (hydrophilic treatment)
4. Gas/water plate exchanger
5. Electric pump

configurations

DIFFUSER FOR FAN:

- Standard diffuser
- HEDIF** Diffuser for high efficiency axial fan

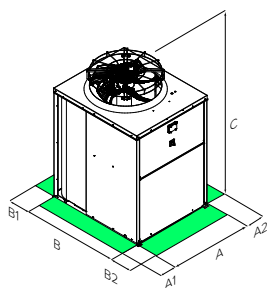
PUMP:

- Standard pump
- User side hydronic assembly: not required
- HYGU1V** User side hydronic assembly with one inverter pump

accessories

| | | | | | |
|---|---------------|---|---|--------------|---|
|  | KTFLX | Hose kit for connection to the chiller/heat pump |  | PGFCX | Finned coil protection grill (Excellence version) |
|  | CMACSX | Domestic hot water module |  | AMRX | Rubber antivibration mounts |
|  | 3DHWX | 3-way valve for domestic hot water |  | RCTX | Remote control |
|  | KSAX | 100-litre circuit breaker |  | KCSX | Secondary circuit kit (1-litre circuit breaker + pump) ^{NEW} |
|  | KG4UPX | Management kit up to 4 units in parallel through the two set points available for each unit |  | DIX | 1-litre circuit breaker ^{NEW} |
|  | CMSC2X | Serial communication module with RS485 serial converter kit |  | DI50X | 50-litre circuit breaker ^{NEW} |

dimensions and connections



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

| Size (EXC) | | | 141 | 151 | 161 | 171 |
|-----------------------|----------------------------------|----------------------|-------------------|--------|-------------------|--------|
| Dimensions | Length(A) x Height(C) x Depth(B) | | 1.341x1.520x1.159 | | 1.341x1.770x1.149 | |
| Weight | | kg | 310 | 330 | 400 | 400 |
| Refrigerant precharge | | type/GWP | R-410A / 2088 | | | |
| | | kg | 8,7 | 11 | 11 | 11 |
| | | CO ₂ tons | 18,2 | 23,0 | 23,0 | 23,0 |
| External diameters | Water | inch | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2" |

technical data

| Size (EXC) | | | | 141 | 151 | 161 | 171 | |
|-----------------------------------|---------------------------------|----------------------------------|---------|----------|-------------|-------------|-------------|-------------|
| Heating | Capacity | Water 35/30°C - Outdoor air 7°C | Nominal | kW | 32,3 | 37,2 | 43,9 | 50,2 |
| | COP | | Nominal | - | 3,95 | 3,80 | 3,80 | 3,74 |
| | Capacity | Water 35/30°C - Outdoor air -7°C | Nominal | kW | 20,4 | 23,1 | 27,2 | 31,2 |
| | COP | | Nominal | - | 2,60 | 2,52 | 2,50 | 2,49 |
| | Capacity | Water 45/40°C - Outdoor air 7°C | Nominal | kW | 31,9 | 36,7 | 43 | 49,3 |
| | COP | | Nominal | - | 3,23 | 3,20 | 3,17 | 3,14 |
| Cooling | Capacity | Water 18/23°C - Outdoor air 35°C | Nominal | kW | 35,0 | 39,8 | 45,4 | 50,9 |
| | EER | | Nominal | - | 3,91 | 3,77 | 3,82 | 3,68 |
| | Capacity | Water 7/12°C - Outdoor air 35°C | Nominal | kW | 32,5 | 38,2 | 43,6 | 49,2 |
| | EER | | Nominal | - | 2,67 | 2,66 | 2,69 | 2,58 |
| Electrical power for meter sizing | | | | kW | 18,6 | 20,6 | 23,6 | 26,1 |
| Heating 35°C | Energy class | | | - | A+ | A+ | A+ | A+ |
| | Annual energy consumption | | | kWh/year | 14.893 | 16.911 | 19.843 | 22.681 |
| | SCOP | | | - | 3,21 | 3,20 | 3,21 | 3,22 |
| | ηs (seasonal output) | | | % | 125% | 125% | 125% | 126% |
| Outdoor unit | | | | | 141 | 151 | 161 | 171 |
| Power supply | Voltage/Frequency/Phases | | | V/Hz/n° | 400/50/3+N | | | |
| Water flow-rate | Water 35/30°C - Outdoor air 7°C | | Nominal | l/s | 1,67 | 1,90 | 2,17 | 2,43 |
| Available pressure pump | | | Nominal | kPa | 116 | 103 | 91 | 73 |
| Minimum system water content | | | | l | 87 | 99 | 113 | 127 |
| Expansion tank capacity | | | | l | - | - | - | - |
| Sound power | | | Nominal | dB(A) | 85 | 86 | 89 | 90 |
| Sound pressure @1m | | | Nominal | dB(A) | 69 | 70 | 73 | 73 |
| Operating range | | | | | | | | |
| Water supply temperature | Heating | Minimum / Maximum | | °C | 25 / 60 | | | |
| | Cooling | Minimum / Maximum | | °C | -8 / 18 | | | |
| Operating range (Outdoor air) | Heating | Minimum / Maximum | | °C | -20 / 45 | | | |
| | Cooling | Minimum / Maximum | | °C | -10 / 45 | | | |

Data according to EN 14511:2018 and EN 14825:2016

The Product complies with the European ErP Directive (EU Regulations 811/2013 - 813/2013 - 2016/2281)