

NEW PRODUCT



THUNDER

Reversible heat pump
 Air cooled
 Outdoor installation
Capacity from 34,9 to 72,7 kW

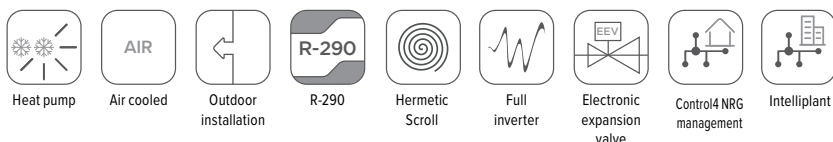
- ✓ Full inverter technology with scroll compressors
- ✓ High-temperature solution with modular approach
- ✓ Natural and environmentally friendly refrigerant R290 - GWP = 3
- ✓ High full load and seasonal efficiency with compact dimensions
- ✓ Hot water up to 75°C and wide operating range from -20°C to +42°C
- ✓ Three acoustic levels: standard, silenced and super-silenced
- ✓ Modular design for up to 16 units in parallel (reduced installation space, enhanced system efficiency)



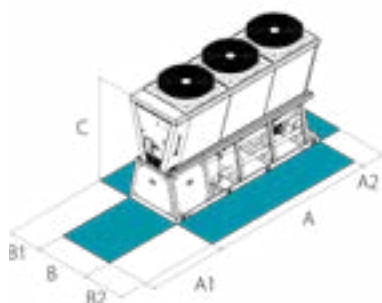
compliant
ErP

HYDRONIC

functions and features



dimensions and clearances



| Size | ▶ WiSAN-P | 14.1 | 16.1 | 18.1 | 19.1 | 20.1 | 25.2 | 30.2 |
|------------------|-----------|------|------|------|------|------|------|------|
| A - Length | mm | 2400 | 2400 | 2400 | 2400 | 2400 | 3400 | 3400 |
| B - Width | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| C - Height | mm | 2250 | 2250 | 2250 | 2250 | 2250 | 2250 | 2250 |
| A1 | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| A2 | mm | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| B1 | mm | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| B2 | mm | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Operating weight | kg | 709 | 709 | 757 | 757 | 757 | 1021 | 1021 |

The above mentioned data are referred to standard units for the constructive configurations indicated.
 For all the other configurations, refer to the relative Technical Bulletin.

CAUTION!

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

versions and configurations

TYPE OF FANS:

VENDC DC high efficiency fan (Standard)

ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)
LN Silenced acoustic configuration
EN Super-silenced acoustic configuration

technical data

| Size | | ▶▶ WISAN-P | 14.1 | 16.1 | 18.1 | 19.1 | 20.1 | 25.2 | 30.2 |
|------------------------------------------------|-----|-------------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|
| ♦ Cooling capacity (EN 14511:2022) | (1) | kW | 34,9 | 38,5 | 49,9 | 54,0 | 58,2 | 67,8 | 72,7 |
| Total power input (EN 14511:2022) | (1) | kW | 12,3 | 13,7 | 19,4 | 22,0 | 24,8 | 23,7 | 27,5 |
| EER (EN 14511:2022) | (1) | - | 2,84 | 2,81 | 2,58 | 2,46 | 2,35 | 2,86 | 2,64 |
| SEER | - | - | 5,36 | 5,20 | 4,73 | 4,58 | 4,36 | 5,47 | 5,30 |
| $\eta_{s,c}$ | - | % | 210,0 | 204,0 | 186,0 | 181,0 | 174,0 | 214,0 | 207,0 |
| ♦ Heating capacity (EN 14511:2022) | (2) | kW | 39,9 | 45,2 | 55,1 | 61,5 | 68,5 | 78,6 | 85,9 |
| Total power input (EN 14511:2022) | (2) | kW | 12,8 | 14,7 | 17,2 | 19,7 | 23,4 | 25,0 | 28,5 |
| COP (EN 14511:2022) | (2) | - | 3,11 | 3,08 | 3,19 | 3,13 | 2,92 | 3,14 | 3,01 |
| Refrigeration circuits | - | Nr | | | | 1 | | | |
| No. of compressors | - | Nr | | | 1 | | | 2 | |
| Type of compressors | - | - | | | | SCROLL INVERTER | | | |
| Refrigerant | - | - | | | | R-290 | | | |
| Standard airflow | - | l/s | 11333 | 11333 | 11333 | 11333 | 11333 | 17083 | 17083 |
| Standard power supply | - | V | | | | 400/3/50 | | | |
| Directive ErP (Energy Related Products) | | | | | | | | | |
| ErP Energy Class - AVERAGE Climate - W35 | - | - | A+++ | A+++ | A++ | A++ | A++ | A+++ | A+++ |
| ErP Energy Class - AVERAGE Climate - W35 | - | - | A++ | A++ | A++ | A++ | A++ | A++ | A++ |
| SCOP - AVERAGE Climate - W35 | (3) | - | 4,51 | 4,45 | 4,29 | 4,23 | 4,15 | 4,70 | 4,54 |
| $\eta_{s,H}$ | (3) | % | 177 | 175 | 169 | 166 | 163 | 185 | 179 |
| SCOP - AVERAGE Climate - W35 | (3) | - | 3,54 | 3,51 | 3,39 | 3,38 | 3,36 | 3,63 | 3,60 |
| $\eta_{s,H}$ | (3) | % | 139 | 137 | 133 | 132 | 131 | 142 | 141 |

(1) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Outdoor heat exchanger inlet air temperature = 35°C

(2) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 40/45°C; Outdoor heat exchanger inlet air temperature 7 D.B. /6 (°C) W.B.

(3) Data calculated according to the EN 14825:2018 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤70 kW at specified reference conditions), the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤400 kW at specified reference conditions).

accessories

HYGU1VI User side hydronic assembly with 1 inverter pump
1+1HYGU1VI Hydropack user side with 1+1 inverter pump
ACIMP Steel inertial storage tank
IFWX Steel mesh strainer on the water side
AMODX Steel mesh strainer on the water side
CCKMUX Pipe plug kit for modular units
PGFCX Finned coil protection grill

PGCCHX Anti-hail protection grilles
CCCA Copper / aluminium condenser coil with acrylic lining
CCCA1 Copper / aluminium condenser coil with acrylic lining
3DHW Three-way valve for domestic hot water
AMMX Rubber antivibration mounts
AMMSX Anti-seismic spring antivibration mounts

Accessories whose code ends with "X" are supplied separately