# WiSAN-YEE1 PL

**20.2÷85.4**

HYDRONIC

## NEW PRODUCT



## LARGE EVO PL

**Polyvalent reversible heat pump**
Air cooled
Outdoor installation
**Capacity from 51,7 to 238 kW**

- ✓ Full inverter technology with scroll or rotary compressors
- ✓ Polyvalent technology configurable for 4-pipe
- ✓ Refrigerant R32 - GWP = 675
- ✓ Hot water up to 60°C, chilled water down to -8°C, operation at -20°C
- ✓ Double independent circuits for high reliability
- ✓ Three sound levels: standard, silent and super-silent
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hot side and cold side hydronic assemblies

DC INVERTER

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

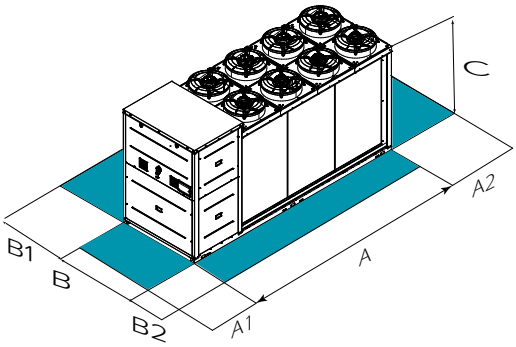
Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website www.eurovent-certification.com

ErP compliant ErP

## functions and features

Heat pump · Air cooled · Outdoor installation · R-32 · Hermetic rotary · Hermetic Scroll · Full inverter · Electronic expansion valve · Control4 NRG management · Intelliplant

## dimensions and clearances




| Size ▸▸ WiSAN-YEE1 PL | | 20.2 | 25.2 | 30.2 | 35.2 | 40.2 | 45.2 | 50.2 | 55.4 | 60.4 | 65.4 | 70.4 | 75.4 | 80.4 | 85.4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A - Length | mm | 2510 | 2510 | 3230 | 3230 | 3230 | 3905 | 3905 | 4060 | 4060 | 4400 | 4400 | 5195 | 5195 | 5195 |
| B - Width | mm | 1395 | 1395 | 1395 | 1395 | 1395 | 1395 | 1395 | 1545 | 1545 | 1545 | 1545 | 1545 | 1545 | 1545 |
| C - Height | mm | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 | 1920 |
| A1 | mm | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| A2 | mm | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| B1 | mm | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 |
| B2 | mm | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 |
| Operating weight | kg | 978 | 978 | 1300 | 1300 | 1300 | 1492 | 1492 | 1586 | 1586 | 2012 | 2012 | 2160 | 2160 | 2160 |

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)

ENERGY RECOVERY:

**R** Total energy recovery (Standard)

STRUCTURAL CONFIGURATION:

**4T** Configuration for 4-pipe system

ACOUSTIC CONFIGURATION:

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

## technical data

| Size ▶▶ WiSAN-YEE1 PL | | | 20.2 | 25.2 | 30.2 | 35.2 | 40.2 | 45.2 | 50.2 | 55.4 | 60.4 | 65.4 | 70.4 | 75.4 | 80.4 | 85.4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Cooling 100% - Heating 0%** | | | | | | | | | | | | | | | | |
| Cooling capacity (EN 14511:2022) | (1) | kW | 51,7 | 61,6 | 71,1 | 81,5 | 91,4 | 111 | 124 | 136 | 149 | 162 | 181 | 200 | 219 | 238 |
| Total power input (EN 14511:2022) | (1) | kW | 16,9 | 22,3 | 22,7 | 27,7 | 33,4 | 36,6 | 43,0 | 47,8 | 55,1 | 53,3 | 63,4 | 66,0 | 75,9 | 87,8 |
| EER (EN 14511:2022) | (1) | - | 3,07 | 2,77 | 3,13 | 2,94 | 2,74 | 3,02 | 2,87 | 2,85 | 2,70 | 3,05 | 2,85 | 3,03 | 2,88 | 2,70 |
| SEER | (6) | - | 4,25 | 4,23 | 4,48 | 4,45 | 4,44 | 4,62 | 4,60 | 4,38 | 4,35 | 4,65 | 4,64 | 4,62 | 4,61 | 4,59 |
| $\eta_{S,C}$ | (6) | % | 167,1 | 166,3 | 176,2 | 175,0 | 174,6 | 181,6 | 180,8 | 172,1 | 170,9 | 183,0 | 182,6 | 181,9 | 181,5 | 180,7 |
| **Cooling 0% - Heating 100%** | | | | | | | | | | | | | | | | |
| Heating capacity (EN 14511:2022) | (2) | kW | 64,5 | 72,8 | 80,5 | 92,3 | 104 | 120 | 137 | 154 | 173 | 192 | 211 | 231 | 253 | 280 |
| Total power input (EN 14511:2022) | (2) | kW | 20,7 | 24,3 | 24,0 | 28,5 | 33,2 | 36,9 | 42,4 | 48,0 | 55,8 | 58,6 | 66,5 | 69,3 | 78,5 | 90,4 |
| COP (EN 14511:2022) | (2) | - | 3,12 | 3,00 | 3,36 | 3,24 | 3,15 | 3,26 | 3,22 | 3,22 | 3,10 | 3,27 | 3,18 | 3,34 | 3,23 | 3,10 |
| **Cooling 100% - Heating 100%** | | | | | | | | | | | | | | | | |
| Cooling capacity (EN 14511:2022) | (3) | kW | 53,0 | 62,2 | 69,8 | 80,2 | 88,0 | 108 | 116 | 134 | 149 | 166 | 176 | 189 | 208 | 226 |
| Heating capacity (EN 14511:2022) | (3) | kW | 70,6 | 84,0 | 92,0 | 108 | 119 | 144 | 156 | 178 | 200 | 218 | 232 | 246 | 274 | 303 |
| Total power input (EN 14511:2022) | (3) | kW | 17,7 | 22,1 | 22,4 | 27,7 | 31,9 | 36,9 | 41,5 | 45,0 | 51,7 | 53,0 | 57,4 | 58,4 | 68,0 | 78,5 |
| TER (EN 14511:2022) | (4) | - | 6,98 | 6,60 | 7,23 | 6,78 | 6,50 | 6,83 | 6,55 | 6,94 | 6,75 | 7,25 | 7,11 | 7,44 | 7,09 | 6,74 |
| Refrigeration circuits | | Nr | 2 | | | | | | | | | | | | | |
| No. of compressors | | Nr | 2 | | | | | | | | | | 4 | | | |
| Type of compressors | | - | ROTARY INVERTER | | | | | | SCROLL INVERTER | | | | | | | |
| Refrigerant | | - | R32 | | | | | | | | | | | | | |
| Standard power supply | | V | 400/3~/50 | | | | | | | | | | | | | |
| SC-Sound power level | (5) | dB(A) | 83 | 83 | 85 | 85 | 85 | 87 | 87 | 88 | 88 | 89 | 89 | 91 | 91 | 91 |
| LN-Sound power level | (5) | dB(A) | 79 | 79 | 81 | 81 | 81 | 83 | 83 | 84 | 84 | 85 | 85 | 87 | 87 | 87 |
| EN-Sound power level | (5) | dB(A) | 75 | 75 | 77 | 77 | 77 | 79 | 79 | 80 | 80 | 81 | 81 | 83 | 83 | 83 |
| **Directive ErP (Energy Related Products)** | | | | | | | | | | | | | | | | |
| SCOP - AVERAGE Climate - W35 | (6) | - | 4,16 | 4,15 | 4,17 | 4,12 | 4,10 | 4,16 | 4,14 | 4,08 | 4,06 | 4,13 | 4,12 | 4,08 | 4,06 | 4,04 |
| $\eta_{S,H}$ | (6) | % | 163,0 | 163,0 | 164,0 | 162,0 | 161,0 | 163,0 | 163,0 | 160,0 | 159,0 | 162,0 | 162,0 | 160,0 | 160,0 | 159,0 |
| SCOP - AVERAGE Climate - W55 | (6) | - | 2,95 | 3,06 | 3,04 | 3,08 | 3,17 | 3,07 | 3,18 | 3,07 | 3,12 | 3,17 | 3,19 | 3,01 | 3,11 | 3,27 |
| $\eta_{S,H}$ | (6) | % | 115,0 | 119,0 | 119,0 | 120,0 | 124,0 | 120,0 | 124,0 | 120,0 | 122,0 | 124,0 | 125,0 | 117,0 | 121,0 | 128,0 |

(1) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = 12/7°C; Entering external exchanger air temperature = 35°C
(2) Data compliant to Standard EN 14511:2022 referred to the following conditions: Hot side water temperature = 40/45°C; Entering external exchanger air temperature = 7°C D.B./6°C W.B.
(3) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = */7°C; Hot side water temperature = */45°C
(4) TER = (Cooling capacity + Heating capacity) / (Total power input)
(5) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013
(6) 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) and the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

## accessories

**CCCA** Copper / aluminium condenser coil with acrylic lining
**CCCA1** Condenser coil with Aluminium Energy Guard DCC treatment
**ABU** Flush hydraulic connections
**1PMCS** Hydropack on cold use side with 1 on-off pump
**1PMCSV** Hydropack on cold use side with 1 inverter pump
**1+1PMCS** Hydropack cooling side with 1 + 1 on-off pump
**1+1PMCSV** Hydropack cooling side with 1 + 1 inverter pump
**1PMHS** Hydropack on hot use side with 1 on-off pump
**1PMHSV** Hydropack on hot use side with 1 inverter pump
**1+1PMHS** Hydropack heating side with 1 + 1 on-off pump
**1+1PMHSV** Hydropack heating side with 1 + 1 inverter pump
**CMSC9** Serial communication module for Modbus supervisor
**CMSC10** Serial communication module for LonWorks supervisor
**CMSC11** Serial communication module for BACnet-IP supervisor

Accessories whose code ends with "X" are supplied separately

**PFGP** Soundproofing paneling of the pumping unit
**IFWX** Steel mesh strainer on the water side
**RCMRX** Remote control via microprocessor control
**PSX** Mains power supply
**RPR** Refrigerant leak detector
**AVIBX** Anti-vibration mount support
**AMMSX** Anti-seismic spring antivibration mounts
**PGFC** Finned coil protection grill
**PGFCX** Finned coil protection grill
**PGCCH** Anti-hail protection grilles
**PGCCHX** Anti-hail protection grilles
**TCDC** Condensate collection pan with electric heater
**IOTX** IoT industrial module for cloud based interoperability & services

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Data contained in this document are not binding and may be changed by the Manufacturer without notice