

# LARGE EVO

Air-cooled liquid chiller for outdoor installation.

**Capacity from 110 to 252 kW**



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps".  
Check ongoing validity of certificate on [www.eurovent-certification.com](http://www.eurovent-certification.com)



Cooling only



Air cooled



Outdoor installation



R-32



Hermetic rotary



Hermetic Scroll



Full inverter



Electronic expansion valve



CONTROL4 NRG management



INTELLIPLANT



compliant ErP

- ✓ Full inverter technology with scroll or rotary compressors
- ✓ High temperature solution for harsh climates
- ✓ Excellence version for greater efficiency, Premium version for reduced initial investment
- ✓ Refrigerant R32 - GWP = 675
- ✓ Operation at 48°C outdoor air temperature, chilled water down to -8°C
- ✓ Three acoustic configurations: standard, silent and super-silent
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated hydronic assembly, system tank and partial heat recovery

## Versions and configurations

### VERSION:

|     |                       |
|-----|-----------------------|
| EXC | Excellence (standard) |
| PRM | Premium               |

### TYPE OF FANS:

|       |                                   |
|-------|-----------------------------------|
| VENDC | DC high efficiency fan (Standard) |
|-------|-----------------------------------|

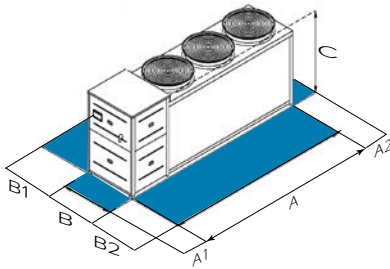
### ENERGY RECOVERY:

|   |                                          |
|---|------------------------------------------|
| - | Energy recovery: not required (Standard) |
| D | Partial energy recovery                  |

### ACOUSTIC CONFIGURATION:

|    |                                                                 |
|----|-----------------------------------------------------------------|
| SC | Acoustic configuration with compressor soundproofing (Standard) |
| LN | Silenced acoustic configuration                                 |
| EN | Supersilenced acoustic configuration                            |

## Dimensions and connections



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

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.

| Size   | WiSAT-YEE1       | 45.4 | 50.4 | 55.4 | 60.4 | 65.4 | 70.4 | 75.4 | 80.4 | 85.4 | 90.4 |
|--------|------------------|------|------|------|------|------|------|------|------|------|------|
| SC-EXC | A - Length       | mm   | 3310 | 3310 | 3310 | 3310 | 4300 | 4300 | 4300 | 4300 | 4300 |
| SC-EXC | B - Width        | mm   | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| SC-EXC | C - Height       | mm   | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| SC-EXC | A1               | mm   | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| SC-EXC | A2               | mm   | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  |
| SC-EXC | B1               | mm   | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 |
| SC-EXC | B2               | mm   | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 |
| SC-EXC | Operating weight | kg   | 894  | 894  | 904  | 904  | 1154 | 1154 | 1180 | 1180 | 1180 |

| Size   | WiSAT-YEE1       | 45.4 | 50.4 | 55.4 | 60.4 | 65.4 | 70.4 | 75.4 | 80.4 | 85.4 | 90.4 |
|--------|------------------|------|------|------|------|------|------|------|------|------|------|
| SC-PRM | A - Length       | mm   | 3310 | 3310 | 3310 | 3310 | 4300 | 4300 | 4300 | 4300 | 4300 |
| SC-PRM | B - Width        | mm   | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| SC-PRM | C - Height       | mm   | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| SC-PRM | A1               | mm   | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| SC-PRM | A2               | mm   | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  |
| SC-PRM | B1               | mm   | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 |
| SC-PRM | B2               | mm   | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 | 1350 |
| SC-PRM | Operating weight | kg   | 894  | 894  | 894  | 904  | 1154 | 1154 | 1180 | 1180 | 1180 |

## Technical data

| Size   |                                   |     | WISAT-YEE1 | 45.4            | 50.4  | 55.4  | 60.4  | 65.4  | 70.4            | 75.4  | 80.4  | 85.4  | 90.4  |  |
|--------|-----------------------------------|-----|------------|-----------------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|--|
| SC-EXC | Cooling capacity (EN 14511:2022)  | (1) | kW         | 110             | 118   | 133   | 142   | 156   | 169             | 183   | 196   | 209   | 226   |  |
| SC-EXC | Total power input (EN 14511:2022) | (1) | kW         | 34,2            | 38,5  | 46,1  | 50,3  | 50,0  | 54,6            | 64,0  | 59,4  | 65,5  | 74,2  |  |
| SC-EXC | EER (EN 14511:2022)               | (1) | -          | 3,22            | 3,08  | 2,89  | 2,82  | 3,12  | 3,09            | 2,86  | 3,31  | 3,19  | 3,04  |  |
| SC-EXC | SEER                              | (3) | -          | 5,07            | 5,05  | 4,94  | 4,93  | 5,25  | 5,24            | 5,19  | 5,34  | 5,31  | 5,28  |  |
| SC-EXC | n <sub>sc</sub>                   | (3) | %          | 200,0           | 199,0 | 194,0 | 194,0 | 207,0 | 207,0           | 205,0 | 211,0 | 210,0 | 208,0 |  |
| SC-EXC | Refrigeration circuits            |     | Nr         | 2               |       |       |       |       |                 |       |       |       |       |  |
| SC-EXC | No. of compressors                |     | Nr         | 4               |       |       |       |       |                 |       |       |       |       |  |
| SC-EXC | Type of compressors               |     | -          | ROTARY INVERTER |       |       |       | *     | SCROLL INVERTER |       |       |       |       |  |
| SC-EXC | Refrigerant                       |     | -          | R-32            |       |       |       |       |                 |       |       |       |       |  |
| SC-EXC | Standard power supply             |     | V          | 400/3N~/50      |       |       |       |       |                 |       |       |       |       |  |
| SC-EXC | Sound power level                 | (2) | dB(A)      | 84              | 84    | 84    | 84    | 85    | 85              | 85    | 88    | 89    | 89    |  |
| LN-EXC | Sound power level                 | (2) | dB(A)      | 81              | 81    | 81    | 81    | 82    | 82              | 82    | 84    | 85    | 85    |  |
| EN-EXC | Sound power level                 | (2) | dB(A)      | 78              | 78    | 78    | 78    | 79    | 79              | 79    | 80    | 81    | 81    |  |

| Size   |                                   | WISAT-YEE1 | 45.4  | 50.4            | 55.4  | 60.4  | 65.4  | 70.4            | 75.4  | 80.4  | 85.4  | 90.4  |       |
|--------|-----------------------------------|------------|-------|-----------------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| SC-PRM | Cooling capacity (EN 14511:2022)  | (1)        | kW    | 125             | 135   | 143   | 155   | 174             | 192   | 211   | 226   | 241   | 252   |
| SC-PRM | Total power input (EN 14511:2022) | (1)        | kW    | 44,2            | 49,2  | 53,5  | 58,8  | 62,4            | 73,2  | 71,6  | 78,1  | 80,3  | 86,0  |
| SC-PRM | EER (EN 14511:2022)               | (1)        | -     | 2,83            | 2,74  | 2,67  | 2,64  | 2,79            | 2,63  | 2,94  | 2,90  | 3,00  | 2,93  |
| SC-PRM | SEER                              | (3)        | -     | 4,76            | 4,71  | 4,70  | 4,77  | 4,91            | 4,90  | 5,06  | 5,03  | 5,06  | 5,05  |
| SC-PRM | n <sub>sc</sub>                   | (3)        | %     | 188,0           | 185,0 | 185,0 | 188,0 | 193,0           | 193,0 | 199,0 | 198,0 | 199,0 | 199,0 |
| SC-PRM | Refrigeration circuits            |            | Nr    | 2               |       |       |       |                 |       |       |       |       |       |
| SC-PRM | No. of compressors                |            | Nr    | 4               |       |       |       |                 |       |       |       |       |       |
| SC-PRM | Type of compressors               |            | -     | ROTARY INVERTER |       |       | *     | SCROLL INVERTER |       |       |       |       |       |
| SC-PRM | Refrigerant                       |            | -     | R-32            |       |       |       |                 |       |       |       |       |       |
| SC-PRM | Standard power supply             |            | V     | 400/3N~/50      |       |       |       |                 |       |       |       |       |       |
| SC-PRM | Sound power level                 | (2)        | dB(A) | 86              | 86    | 86    | 87    | 87              | 90    | 91    | 91    | 91    | 91    |
| LN-PRM | Sound power level                 | (2)        | dB(A) | 83              | 83    | 83    | 84    | 84              | 87    | 88    | 88    | 88    | 88    |
| EN-PRM | Sound power level                 | (2)        | dB(A) | 80              | 80    | 80    | 81    | 81              | 84    | 85    | 85    | 85    | 85    |

(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) 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

(3) Data calculated according to the EN 14825:2022 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

## Accessories

|        |                                                             |        |                                                                                 |
|--------|-------------------------------------------------------------|--------|---------------------------------------------------------------------------------|
| 1PM    | Hydronic unit on user side with 1 on-off pump               | CMSC13 | Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP superviso |
| 1PMH   | Hydronic unit on user side with 1 high head on-off pump     | REMAU  | Additional board for advanced function management                               |
| 1PMV   | Hydronic unit on user side with 1 inverter pump             | RPR    | Refrigerant leak detector                                                       |
| 1PMVH  | Hydronic unit on user side with 1 high head inverter pump   | AVIBX  | Anti-vibration mount support                                                    |
| 1P1SB  | Hydronic unit on user side with 1+1 on-off pump             | AMMSX  | Spring anti-seismic antivibration mounts                                        |
| 1PAP+S | Hydronic unit on user side with 1+1 on-off high head pump   | PGFC   | Finned coil protection grilles                                                  |
| 1P1SBV | Hydronic unit on user side with 1+1 inverter pump           | PGFCX  | Finned coil protection grilles                                                  |
| 1PAPSV | Hydronic unit on user side with 1+1 high head inverter pump | PGCCH  | Anti-hail protection grilles                                                    |
| ACC    | Storage tank                                                | PGCCHX | Anti-hail protection grilles                                                    |
| IFWX   | Steel mesh filter on the water side                         | IOTX   | IoT industrial module for cloud based interoperability & services               |
| ABU    | Flush hydraulic connections                                 | CCME   | Microchannel coil                                                               |

Accessories whose code ends with "X" are supplied separately