

## SHEEN NA

### Reversible heat pump

Air cooled

Inverter Technology

Outdoor installation

**Capacity 20 TON**

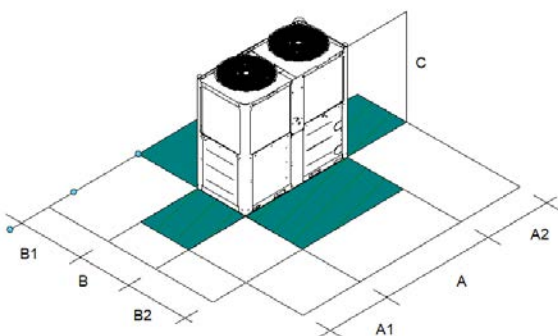


- ✓ Reversible Heat Pump Technology. Capable of producing hot or cold water based on the season.
- ✓ High Reliability Design. Inverter Scroll compressor ensure efficient and reliable operation. DC Inverter fans offer superior airflow and energy efficiency. Two independent circuits provide redundancy and enhanced reliability.
- ✓ High Sustainability Ecological Refrigerant. R32 with a Global Warming Potential of 675, reducing environmental impact.
- ✓ Industry-Leading Efficiency. Full inverter scroll technology guarantees performance at full and partial load to adapt to the needs of the plant. IPLV (Integrated Part Load Value) up to 20.1, maximizing seasonal performance.
- ✓ Ultra-Quiet Operation. Our super-silenced version reduces noise levels, ensuring a quieter environment. Configurable sound emissions reduce the fans speed.
- ✓ Wide Operating Envelope. Delivers outlet water temperatures up to 149°F and operates in outdoor temperatures as low as -22°F.
- ✓ Faster, More Efficient Defrosting. A special hydrophilic coil treatment shortens defrost cycles, ensuring uninterrupted performance and efficiency.
- ✓ System scalability up to 160 Tons. Modular operation up to 8 units in a cascade setup.

## functions and features



## dimensions and clearances



| Size             | ▶▶ WiSAN-YSE1 NA | 30.2  |
|------------------|------------------|-------|
| A - Length       | in               | 78.74 |
| B - Width        | in               | 37.8  |
| C - Height       | in               | 74.02 |
| A1               | in               | 59.1  |
| A2               | in               | 59.1  |
| B1               | in               | 59.1  |
| B2               | in               | 59.1  |
| Operating weight | lbs              | 1,193 |

The above mentioned data are referred to standard units for the constructive configurations indicated.

### CAUTION!

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

versions and configurations

SUPPLY VOLTAGE:  
- 208-230/3~/60 Supply voltage (Standard)

ENERGY VERSION:  
**EXC** High efficiency

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:  
**VENDC** DC high efficiency fan (Standard)

technical data

| SIZE                           | ▶▶ <b>WiSAN-YSE1 NA</b> | <b>30.2</b>     |
|--------------------------------|-------------------------|-----------------|
| Cooling Capacity               | (1) ton                 | 20.0            |
| Total power input              | (1) kW                  | 23.4            |
| EER                            | (1) BTU / (Wh)          | 10.2            |
| IPLV                           | (1) BTU / (Wh)          | 20.1            |
| Heating Capacity               | (2) MBH                 | 256             |
| Total power input              | (2) kW                  | 22.1            |
| COP                            | (2) kW / kW             | 3.40            |
| Refrigeration circuits         | Nr                      | 2               |
| N° of compressors              | Nr                      | 2               |
| Type of compressors            | -                       | INVERTER SCROLL |
| Refrigerant                    | -                       | R-32            |
| Standard power supply          | V                       | 208-230/3~/60   |
| SCCR                           | kA                      | 5               |
| Sound power level cooling (SC) | (3) dB(A)               | 83              |

(1) Data: User side heat exchanger water 54 °F / 44 °F; Outdoor Air 95 °F  
(2) Data: User side heat exchanger water 110 °F / 120 °F; Outdoor air 47 °F d.b. / 43 °F w.b.  
(3) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2

accessories

- BCACF** Copper / aluminium condenser coil with acrylic lining
- CMSC13X** Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP supervisor
- AVIBX** Anti-vibration mount support
- HYGU1VI** User side hydronic group with 1 inverter pump
- TCDC** Condensate collection pan with electric heater

Accessories whose code ends with "X" are supplied separately