

WiSAN-YMD1 NA

MODULAR UNIT



Reversible heat pump

Air cooled
 Inverter Technology
 Outdoor installation
Capacity 28.6 TON
WiSAN-YMD1 NA
40.2

- ✓ **Reversible Heat Pump Technology.** Capable of producing hot/cold water to satisfy the needs of residential and commercial buildings.
- ✓ **High Reliability Design.** Inverter Scroll compressor ensures efficient and reliable operation. DC Inverter fans offer superior airflow and energy efficiency. Two refrigerant circuits provide redundancy and enhanced reliability.
- ✓ **Highly Sustainable 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 18.5, maximizing seasonal performance.
- ✓ **Wide Operating Envelope.** Delivers outlet water temperatures up to 140°F and operates in outdoor temperatures as low as -13°F.
- ✓ **High Modularity.** Possibility of coupling up to 16 units in a local network, with 2 groups of 8 units hydraulically connected, designed to minimize the overall footprint.
- ✓ **Plug and Play solution.** Multiple units can be lifted and positioned as pre-assembled skids, easily interconnected on site, minimizing installation time and downtime.
- ✓ **4-pipe configuration.** With the Intelliplant system and the integrated 4-pipes kit, the production of hot and cold water can also be produced simultaneously. The Intelliplant manages the operating mode of each unit according to the cooling/heating load required by the building.

Functions and Features



Heat pump



Air cooled



Outdoor installation



R-32



Hermetic scroll



Electronic expansion valve



ECOBREEZE

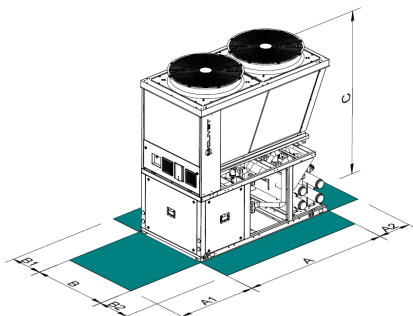


Full inverter



Intelliplant

Dimensions and Clearances



Size	▶ WiSAN-YMD1 NA	40.2
A - Length	in	87.58
B - Width	in	46.2
C - Height	in	92.26
A1	in	47.99
A2	in	19.69
B1	in	19.69
B2	in	19.69
Operating weight	lbs	1,940

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:

4606H 460/3/60 Supply voltage (Standard)

ACOUSTIC CONFIGURATION

SC Acoustic configuration with compressor soundproofing (Standard)

LN Silenced acoustic configuration

EN Super-silenced acoustic configuration

DRAIN PAN

TCDC Drain pan with electrical heater (Standard)

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

VENDC DC high efficiency fan (Standard)

WATER FITTINGS USER SIDE EXCHANGER

- Water fittings for modular unit: not required (Standard)

AMOD2MA Water fittings for modular unit 2 pipes with manual valves

AMOD2MO Water fittings for modular unit 2 pipes with motorized valves

AMOD4MO Water fittings for modular unit 4 pipes with motorized valves

ELECTRICAL PANEL

MOB Serial port RS485 with modbus protocol (Standard)

Technical Data

SIZE	▶▶ WISAN-YMD1 NA		40.2
Cooling Capacity	(1)	ton	28.6
Total power input	(1)	kW	37.2
EER	(1)	BTU / (Wh)	9.22
IPLV	(1)	BTU / (Wh)	18.5
Heating Capacity	(2)	MBH	382
Total power input	(2)	kW	36.6
COP	(2)	kW / kW	3.06
Refrigeration circuits		Nr	2
N° of compressors		Nr	2
Type of compressors		-	INVERTER SCROLL
Refrigerant		-	R-32
Standard power supply		V	460/3~/60
SCCR		kA	65
Sound power level cooling (SC)	(3)	dB(A)	87

(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

CCCA	Copper / aluminium condenser coil with acrylic lining
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment
CMSC13X	Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP supervision system
PGFC	Finned coil protection grill
EWHP	User side water piping antifreeze electric heaters
IFWX	Steel mesh strainer on the water side
AMMSX	Anti-seismic spring antivibration mounts
INTELX	Intelliplant Management
STX	Temperature sensors

Accessories whose code ends with "X" are supplied separately