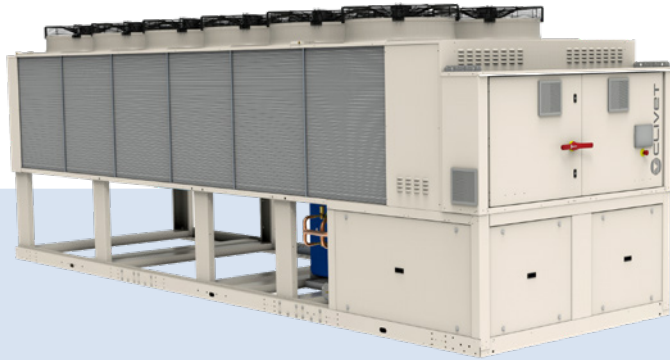


# SPINCHILLER<sup>4</sup> NA



## Reversible heat pump

Air cooled

Outdoor installation

Capacity from 65.7 to 124 TON

**WSAN-YSC4 NA**

**90.4÷175.4**

- ✓ **Reversible Heat Pump Technology.** Capable of producing, according to the season, hot or cold water.
- ✓ **High Reliability Design.** Multiscroll technology optimizes performance with precise load adjustments, delivering consistent comfort and efficiency. EC axial fans offer superior airflow and energy efficiency. Two independent circuits provide redundancy and enhance reliability.
- ✓ **High Sustainability Ecological Refrigerant.** R32 with a Global Warming Potential of 675, reducing environmental impact.
- ✓ **Industry-Leading Efficiency.** High performance at full and partial load to adapt to the needs of the plant. IPLV (Integrated Part Load Value) up to 17.4, maximizing seasonal performance.
- ✓ **Ultra-Quiet Operation.** Our super-silenced version reduces noise levels, ensuring a quieter environment.
- ✓ **Faster, More Efficient Defrosting.** A special hydrophilic coil treatment shortens defrost cycles, ensuring uninterrupted performance and efficiency.
- ✓ **Optimized Modular Operation.** Cascade capability up to 7 units in a cascade setup.
- ✓ **Full Range of Accessories.** Comprehensive accessory options tailored for the North American market.

## Functions and Features



Heat pump



Air cooled



Outdoor installation



R-32



Hermetic scroll



Electronic expansion valve



ECOBREEZE

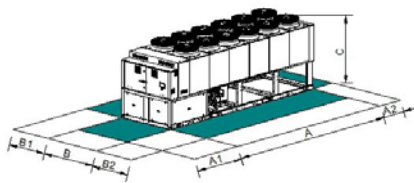


HydroPack



Chiller plant manager

## Dimensions and Clearances



Size	▶▶ WSAN-YSC4 NA	90.4	100.4	110.4	120.4	130.4	145.4	160.4	175.4
A - Length	in	164.4	164.4	164.4	164.4	164.4	202.8	202.8	202.8
B - Width	in	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
C - Height	in	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
A1	in	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
A2	in	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
B1	in	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
B2	in	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
Operating weight	lbs	6,371	6,526	6,596	7,075	7,562	8,891	9,017	9,156

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.

PRELIMINARY DATA

## Versions and Configurations

### SUPPLY VOLTAGE:

<b>4606H</b>	460/3/60 Supply voltage (Standard)
<b>5756H</b>	573/3/60 Supply voltage

### ACOUSTIC CONFIGURATION:

<b>SC</b>	Acoustic configuration with compressor soundproofing (Standard)
<b>EN</b>	Super-silenced acoustic configuration

### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

<b>CREFB</b>	Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)
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## Technical Data

SIZE		▶▶ <b>WSAN-YSC4 NA</b>	<b>90.4</b>	<b>100.4</b>	<b>110.4</b>	<b>120.4</b>	<b>130.4</b>	<b>145.4</b>	<b>160.4</b>	<b>175.4</b>
Cooling Capacity	(1)	ton	65.7	71.2	76.8	82.4	90.4	103	113	124
Total power input	(1)	kW	77.9	87.6	96.4	106	116	128	142	160
EER	(1)	BTU / (Wh)	10.1	9.76	9.57	9.34	9.36	9.62	9.53	9.32
IPLV	(1)	BTU / (Wh)	17.4	16.8	16.4	16.0	16.1	16.5	16.3	16.0
Heating Capacity	(2)	MBH	811	879	945	1,046	1,146	1,310	1,448	1,592
Total power input	(2)	kW	83.0	89.7	97.4	105.0	114	130	145	163
COP	(2)	kW / kW	2.87	2.87	2.84	2.91	2.96	2.95	2.92	2.86
Refrigeration circuits		Nr					2			
N° of compressors		Nr					4			
Type of compressors		-					SCROLL			
Refrigerant		-					R-32			
Standard power supply		V					460/3~/60			
Sound power level	(3)	dB(A)	90	91	91	91	91	92	93	93

(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

PRELIMINARY DATA

## Accessories

<b>CCCA</b>	Copper / aluminium condenser coil with acrylic lining
<b>CCCA1</b>	Condenser coil with Aluminium Energy Guard DCC treatment
<b>PFGP</b>	Soundproofing paneling of the pumping unit
<b>IVFDT</b>	Inverter driven variable flow-rate user side control depending on the temperature differential
<b>CSVX</b>	Couple of manually operated shut-off valves
<b>IFWX</b>	Steel mesh strainer on the water side
<b>CMSC9</b>	Serial communication module for Modbus supervisor
<b>CMSC11</b>	Serial communication module for BACnet-IP supervisor
<b>CMSC12</b>	Serial communication module for BACnet-MSTP supervisor
<b>RCMRX</b>	Remote control via microprocessor control
<b>RE-25</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
<b>DML4-20</b>	Demand limit with 4-20 mA
<b>DML0-10</b>	Demand limit with 0-10 V
<b>ECS</b>	ECOSHARE function for the automatic management of a group of units

<b>SPC1</b>	Set-point compensation with 4-20 mA
<b>SCP4</b>	Set-point compensation with 0-10 V
<b>PSX</b>	Mains power supply
<b>AMMX</b>	Rubber antivibration mounts
<b>PGFC</b>	Finned coil protection grill
<b>PGCCH</b>	Anti-hail protection grilles
<b>1PM</b>	Hydropack user side with 1 on/off pump
<b>1PMV</b>	Hydropack user side with 1 inverter pump
<b>1PMH</b>	Hydropack user side with 1 high static pressure on/off pump
<b>1PMVH</b>	Hydropack user side with 1 high static pressure inverter pump
<b>1P1SB</b>	Hydropack user side with 1+1 on/off pump
<b>1P1SBV</b>	Hydropack user side with 1+1 inverter pump
<b>1PAPS</b>	Hydropack user side with 1+1 high static pressure on/off pump
<b>1PAPSV</b>	Hydropack user side with 1+1 high static pressure inverter pump

Accessories whose code ends with "X" are supplied separately