

SPINCHILLER4 NA

Reversible heat pump

Air cooled

Outdoor installation

Capacity from 67.7 to 126 TON

HYDRONIC

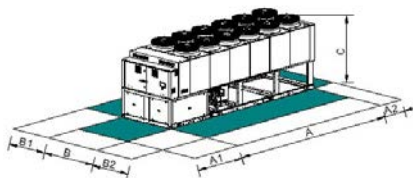


- ✓ Reversible Heat Pump Technology. Capable of producing hot or cold water based on the season.
- ✓ High Reliability Design. Multiscroll technology optimizes performance with precise load adjustments, delivering consistent comfort and efficiency. EC axial fans offer superior airflow and energy efficiency. Two independent circuits provide redundancy and enhance reliability.
- ✓ High Sustainability Ecological Refrigerant. R-32 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



dimensions and clearances



CAUTION!

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

Size	▶▶ WSAN-YSC4 NA	90.4	100.4	110.4	120.4	130.4	145.4	160.4	175.4
A - Length	in	161.9	161.9	161.9	161.9	161.9	200.4	200.4	200.4
B - Width	in	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
C - Height	in	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
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	6,241	6,338	6,415	6,735	6,971	7,840	8,167	8,440

The above mentioned data refer to standard units. For all other configurations, please refer to the dedicated technical bulletin.

versions and configurations

SUPPLY VOLTAGE:

- 4606H460/3/60 Supply voltage (Standard)
- 5756H573/3/60 Supply voltage

ACOUSTIC CONFIGURATION:

- SCAcoustic configuration with compressor soundproofing (Standard)
- ENSuper-silenced acoustic configuration

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

- CREFBDevice for fan consumption reduction of the external section, ECOBREEZE type (Standard)

technical data

SIZE		▶▶ WSAN-YSC4 NA	90.4	100.4	110.4	120.4	130.4	145.4	160.4	175.4
♦ Cooling Capacity	(1)	ton	67.7	73.4	79.1	84.1	92.1	103	115	126
Total power input	(1)	kW	77.3	87.1	95.8	104	114	125	139	157
EER	(1)	BTU / (Wh)	10.5	10.1	9.91	9.69	9.72	9.89	9.92	9.64
IPLV	(1)	BTU / (Wh)	17.4	17.2	16.9	16.6	16.7	17.1	17.0	16.6
♦ Heating Capacity	(2)	MBH	813	881	949	1,052	1,154	1,314	1,451	1,588
Total power input	(2)	kW	81.3	88.0	96.3	104	112	128	142	160
COP	(2)	kW / kW	2.93	2.94	2.89	2.97	3.03	3.01	2.99	2.91
Refrigeration circuits		Nr				2				
N° of compressors		Nr				4				
Type of compressors		-				SCROLL				
Refrigerant		-				R-32				
Standard power supply		V				460/3"/60				
SCCR		kA	65	65	65	65	65	65	65	65
Sound power level cooling (SC)	(3)	dB(A)	90	91	91	91	91	92	93	93
Sound power level cooling (EN)	(3)	dB(A)	87	87	87	87	88	89	89	90

(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

The above mentioned data refer to standard units. For all other configurations, please refer to the dedicated technical bulletin.

accessories

- CCCA

Copper / aluminium condenser coil with acrylic lining
- CCCA1

Condenser coil with Aluminium Energy Guard DCC treatment
- PFGP

Soundproofing paneling of the pumping unit
- IVFDT

Inverter driven variable flow-rate user side control depending on the temperature differential
- CSVX

Couple of manually operated shut-off valves
- IFWX

Steel mesh strainer on the water side
- CMSC9

Serial communication module for Modbus supervisor
- CMSC11

Serial communication module for BACnet-IP supervisor
- CMSC12

Serial communication module for BACnet-MSTP supervisor
- RCMRX

Remote control via microprocessor control
- RE-25

Electrical panel antifreeze protection for min. outdoor temperature down to -25 °C
- RE-39

Electrical panel antifreeze protection for min. outdoor temperature down to -39 °C
- DML4-20

Demand limit with 4-20 mA
- DML0-10

Demand limit with 0-10 V
- CREFBH

High static pressure ecobreeze system
- ECS

ECOSHARE function for the automatic management of a group of units
- SPC1

Set-point compensation with 4-20 mA
- SCP4

Set-point compensation with 0-10 V
- PSX

Mains power supply
- AMMX

Spring antivibration mounts
- PGFC

Finned coil protection grill
- PGCCH

Anti-hail protection grilles
- 1PM

Hydropack user side with 1 on/off pump
- 1PMV

Hydropack user side with 1 inverter pump
- 1PMH

Hydropack user side with 1 high static pressure on/off pump
- 1PMVH

Hydropack user side with 1 high static pressure inverter pump
- 1P1SB

Hydropack user side with 1+1 on/off pump
- 1P1SBV

Hydropack user side with 1+1 inverter pump
- 1PAPS

Hydropack user side with 1+1 high static pressure on/off pump
- 1PAPSV

Hydropack user side with 1+1 high static pressure inverter pump

Accessories whose code ends with "X" are supplied separately