# WSAN-YSC4 PL NA

## **SPINCHILLER4 PL NA**

Polyvalent heat pump Air cooled Outdoor installation Capacity from 67.7 to 126 TON

- Polyvalent Heat Pump Technology. Capable of producing hot and cold water at the same time.
   Using Delicibility Decision Multisered technology and for the same time.
  - ✓ 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.
  - ✓ Total Efficiency Ratio (TER) up to 7.1 for outstanding energy savings. 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.
  - ✓ Smart Defrost Technology. Our advanced defrost algorithm, reduces energy loss by 33% compared to traditional defrost. A special hydrophilic coil treatment shortens defrost cycles, ensuring 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



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## dimensions and clearances



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

CAUTION!

100.4 110.4 120.4 Size **WSAN-YSC4 PL NA** 90.4 130.4 145.4 160.4 175.4 A - Length 161.9 161.9 200.4 200.4 200.4 161.9 161.9 161.9 in 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 59.1 59.1 59.1 59.1 59.1 59.1 59.1 59.1 in 27.6 27.6 A2 27.6 27.6 27.6 27.6 27.6 27.6 in 47.2 B1 in 47.2 47.2 47.2 47.2 47.2 47.2 47.2 B2 47.2 47.2 47.2 47.2 47.2 47.2 47.2 47.2 in lbs 6,592 6,834 6,834 7,278 7,560 8,489 8,816 9,221 Operating weight

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

## versions and configurations

#### SUPPLY VOLTAGE:

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

#### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

CREFB Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)

#### STRUCTURAL CONFIGURATION:

**4**T Configuration for 4-pipe system

#### ACOUSTIC CONFIGURATION:

EN Super-silenced acoustic configuration

## technical data

SIZE	<b>WSAN-YS</b>	C4 PL NA	90.4	100.4	110.4	120.4	130.4	145.4	160.4	175.4		
Cooling 100% - Heating 0%												
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		
Cooling 0% - Heating 100%												
Heating Capacity	(2)	MBH	839	906	975	1,078	1,179	1,343	1,489	1,636		
Total power input	(2)	kW	81.3	88.2	95.9	102	111	127	140	159		
COP	(2)	kW / kW	3.02	3.01	2.98	3.08	3.12	3.11	3.11	3.02		
Cooling 100% - Heating 100%	%											
Cooling Capacity	(3)	ton	65.9	71.5	77.1	82.0	90.1	101	112	123		
Heating Capacity	(3)	MBH	1,025	1,116	1,209	1,292	1,415	1,593	1,766	1,935		
Total power input	(3)	kW	75.1	82.4	90.5	98.0	106	120	134	146		
TER	(3)	kW / kW	7.08	7.02	6.91	6.80	6.88	6.85	6.83	6.84		
Refrigeration circuits				2								
N° of compressors		Nr	4									
Type of compressors		-	SCROLL									
Refrigerant		-	R-32									
Standard power supply		V	460/3~/60									
Sound power level cooling (SC)	(4)	dB(A)	90	91	91	91	91	92	93	93		
Sound power level cooling (EN)	(4)	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 10 °F / 120 °F; Outdoor air 47 °F d.b. / 43 °F w.b. (3) Water hot side heat exchanger \*/120°F; Water to cold side heat exchanger \*/44 °F (4) 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 CCCA PFGP IVFCD IVFHD CSVX IFWX CMSC CMSC CMSC CMSC RCMR RE-25 RE-39 DML4	<ul> <li>Soundproofing paneling of the pumping unit</li> <li>Variable flow rate control cooling side by inverter according to the temperature differential</li> <li>Variable flow rate control heating side by inverter according to the temperature differential</li> <li>Couple of manually operated shut-off valves</li> <li>Steel mesh strainer on the water side</li> <li>Serial communication module for Modbus supervisor</li> <li>Serial communication module for BACnet-IP supervisor</li> <li>Serial communication module for BACnet-MSTP supervisor</li> <li>Remote control via microprocessor control</li> <li>Electrical panel antifreeze protection for min. outdoor temperature down to -25 °C</li> <li>Electrical panel antifreeze protection for min. outdoor temperature down to -39 °C</li> <li>Demand limit with 4-20 mA</li> </ul>	SCP4 PSX AMMX PGFC PGCCH 1PMHS 1PMHSVH 1+1PMHSVH 1+1PMHSV 1+1PMHSVH 1+1PMHSVH 1+1PMCS 1PMCSV 1PMCSVH 1+1PMCS	Set-point compensation with 0-10 V Mains power supply Spring antivibration mounts Finned coil protection grill Anti-hail protection grilles Hydropack for hot side with 1 on/off pump Hydropack for hot side with 1 niverter pump Hydropack for hot side with 1 high static pressure on/off pump Hydropack for hot side with 1 high static pressure inverter pump Hydropack for hot side with 1 high static pressure inverter pump Hydropack for hot side with 1+1 on/off pump Hydropack for hot side with 1+1 high static pressure on/off pump Hydropack for hot side with 1+1 high static pressure inverter pump Hydropack for hot side with 1+1 high static pressure inverter pump Hydropack for cold side with 1 high static pressure on/off pump Hydropack for cold side with 1 high static pressure on/off pump Hydropack for cold side with 1 high static pressure on/off pump Hydropack for cold side with 1 high static pressure inverter pump Hydropack for cold side with 1 high static pressure inverter pump Hydropack for cold side with 1 high static pressure inverter pump Hydropack for cold side with 1 high static pressure inverter pump Hydropack for cold side with 1 high static pressure inverter pump Hydropack for cold side with 1 high static pressure inverter pump Hydropack for cold side with 1 high static pressure inverter pump
DMLO	10 Demand limit with 0-10 V	1+1PMCSH 1+1PMCSV	Hydropack for cold side with 1+1 on/on pump Hydropack for cold side with 1+1 high static pressure on/off pump Hydropack for cold side with 1+1 inverter pump
ECS SPC1	ECOSHARE function for the automatic management of a group of units Set-point compensation with 4-20 mA		Hydropack for cold side with 1+1 high static pressure inverter pump

Accessories whose code ends with "X" are supplied separately

SC Acoustic configuration with compressor soundproofing (Standard)