

SPINCHILLER4 PL NA



Polyvalent reversible heat pump

Air cooled

Outdoor installation

Capacity from 65.7 to 124 TON WSAN-YSC4 PL NA 90.4÷175.4

- ✓ Polyvalent Heat Pump Technology. Capable of producing hot and cold water at 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. 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. Total Efficiency Ratio (TER) up to 7.6 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



Heat

pump



Δir

cooled



Outdoor installation



R-32



Hermetic scroll expansion

valve



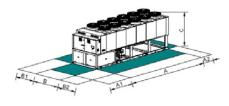
ECOBREEZE HydroPack Electronic





Chiller plant manager

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 PL 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 w	eight lbs	6,631	6,830	6,920	7,410	7,919	8,217	8,488	8,933

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

PRELIMINARY DATA

Versions and Configurations

SUPPLY VOLTAGE:

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

5756H 573/3/60 Supply voltage

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

Device for fan consumption reduction of the external section, ECOBREEZE

type (Standard)

STRUCTURAL CONFIGURATION:

Configuration for 4-pipe system

ACOUSTIC CONFIGURATION:

Acoustic configuration with compressor soundproofing (Standard) SC

Super-silenced acoustic configuration EN

Technical Data

SIZE	►► WSAN	YSC4 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	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
Cooling 0% - Heating 100%										
Heating Capacity	(2)	MBH	813	880	946	1,047	1,147	1,312	1,450	1,594
Total power input	(2)	kW	80.8	87.3	95.0	103	110	127	141	159
COP	(2)	kW / kW	2.95	2.96	2.92	2.99	3.05	3.03	3.01	2.94
Cooling 100% - Heating 100%										
Cooling Capacity	(3)	ton	62.1	68.7	74.4	81.1	89.9	100	110	122
Heating Capacity	(3)	MBH	1,008	1,113	1,211	1,315	1,449	1,614	1,781	1,976
Total power input	(3)	kW	77.4	84.9	93.4	101	109	123	137	149
TER	(3)	kW / kW	6.63	6.69	6.60	6.66	6.81	6.70	6.62	6.76
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	(4)	dB(A)	90	91	91	91	91	92	93	93

PRELIMINARY DATA

Accessories

CCCA	Copper / aluminium condenser coil with acrylic lining	AMMX	Rubber antivibration mounts
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CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment	PGFC	Finned coil protection grill
PFGP	Soundproofing paneling of the pumping unit	PGCCH	Anti-hail protection grilles
IVFCDT	Variable flow rate control cooling side by inverter according to the	1PMCS	Hydropack cold side with 1 on-off pump
	temperature differential	1PMCSH	Hydropack cold side with 1 high static pressure on-off pump
IVFHDT	Variable flow rate control heating side by inverter according to the	1+1PMCS	Hydropack cold side with 1 + 1 on-off pump
	temperature differential	1+1PMCSH	Hydropack cold side with 1 + 1 high static pressure on-off pump
CSVX	Couple of manually operated shut-off valves	1PMCSV	Hydropack cold side with 1 inverter pump
IFWX	Steel mesh strainer on the water side	1PMCSVH	Hydropack cold side with 1 high static pressure inverter pump
CMSC9	Serial communication module for Modbus supervisor	1+1PMCSV	Hydropack cold side with 1 + 1 inverter pump
CMSC11	Serial communication module for BACnet-IP supervisor	1+1PMCSVH	Hydropack cold side with 1 + 1 high static pressure inverter pump
CMSC12	Serial communication module for BACnet-MSTP supervisor	1PMHS	Hydropack hot side with 1 on-off pump
RCMRX	Remote control via microprocessor control	1PMHSH	Hydropack hot side with 1 high static pressure on-off pump
RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25 $^{\circ}\text{C}$	1+1PMHS	Hydropack hot side with 1 + 1 on-off pump
DML4-20	Demand limit with 4-20 mA	1+1PMHSH	Hydropack hot side with 1 + 1 high static pressure on-off pump
DML0-10	Demand limit with 0-10 V	1PMHSV	Hydropack hot side with 1 inverter pump
ECS	ECOSHARE function for the automatic management of a group of units	1PMHSVH	Hydropack hot side with 1 high static pressure inverter pump
SPC1	Set-point compensation with 4-20 mA	1+1PMHSV	Hydropack hot side with 1 + 1 inverter pump
SCP4	Set-point compensation with 0-10 V	1+1PMHSVH	Hydropack hot side with 1 + 1 high static pressure inverter pump
PSX	Mains power supply		

Accessories whose code ends with "X" are supplied separately

⁽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⁾ 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