

SPINCHILLER4 PL NA

Polyvalent heat pump

Air cooled

Outdoor installation

Capacity from 67.7 to 126 TON

HYDRONIC



- ✓ 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. 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



Heat pump



AIR



Outdoor
installation



R-32



Hermetic
Scroll



Electronic
expansion
valve



ECOBREEZE

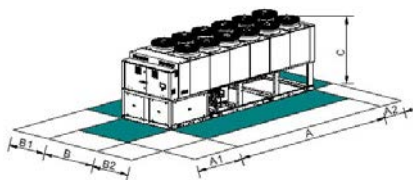


HYDRO
PACK



Intelliplant

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	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	6,592	6,834	6,834	7,278	7,560	8,489	8,816	9,221

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

versions and configurations

SUPPLY VOLTAGE:		STRUCTURAL CONFIGURATION:	
4606H	460/3/60 Supply voltage (Standard)	4T	Configuration for 4-pipe system
5756H	573/3/60 Supply voltage	ACOUSTIC CONFIGURATION:	
EXTERNAL SECTION FAN CONSUMPTION REDUCTION:		SC	Acoustic configuration with compressor soundproofing (Standard)
CREFB	Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)	EN	Super-silenced acoustic configuration

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	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	1,594	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	6.86	6.83	6.84
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)	(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 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

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	SCP4	Set-point compensation with 0-10 V
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment	PSX	Mains power supply
PFGP	Soundproofing paneling of the pumping unit	AMMX	Spring antivibration mounts
IVFCDT	Variable flow rate control cooling side by inverter according to the temperature differential	PGFC	Finned coil protection grill
IVFHD	Variable flow rate control heating side by inverter according to the temperature differential	PGCCH	Anti-hail protection grilles
CSVX	Couple of manually operated shut-off valves	1PMHS	Hydropack for hot side with 1 on/off pump
IFWX	Steel mesh strainer on the water side	1PMHSH	Hydropack for hot side with 1 high static pressure on/off pump
CMSC9	Serial communication module for Modbus supervisor	1PMHSV	Hydropack for hot side with 1 inverter pump
CMSC11	Serial communication module for BACnet-IP supervisor	1PMHSVH	Hydropack for hot side with 1 high static pressure inverter pump
CMSC12	Serial communication module for BACnet-MSTP supervisor	1+1PMHS	Hydropack for hot side with 1+1 on/off pump
RCMRX	Remote control via microprocessor control	1+1PMHSH	Hydropack for hot side with 1+1 high static pressure on/off pump
RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25 °C	1+1PMHSV	Hydropack for hot side with 1+1 inverter pump
RE-39	Electrical panel antifreeze protection for min. outdoor temperature down to -39 °C	1+1PMHSVH	Hydropack for hot side with 1+1 high static pressure inverter pump
DML4-20	Demand limit with 4-20 mA	1PMCS	Hydropack for cold side with 1 on/off pump
DML0-10	Demand limit with 0-10 V	1PMCSH	Hydropack for cold side with 1 high static pressure on/off pump
CREFBH	High static pressure ecobreeze system	1PMCSV	Hydropack for cold side with 1 inverter pump
ECS	ECOSHARE function for the automatic management of a group of units	1PMCSVH	Hydropack for cold side with 1 high static pressure inverter pump
SPC1	Set-point compensation with 4-20 mA	1+1PMCS	Hydropack for cold side with 1+1 on/off pump
		1+1PMCSH	Hydropack for cold side with 1+1 high static pressure on/off pump
		1+1PMCSV	Hydropack for cold side with 1+1 inverter pump
		1+1PMCSVH	Hydropack for cold side with 1+1 high static pressure inverter pump

Accessories whose code ends with "X" are supplied separately