

SPINCHILLER4 PL NA

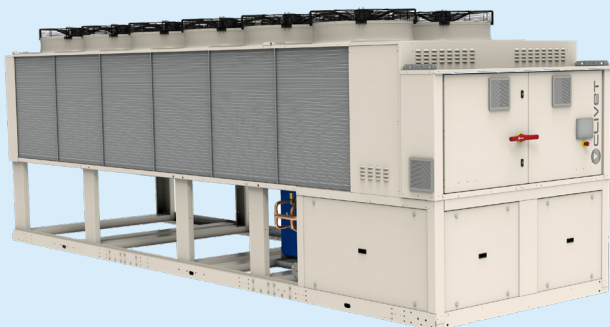
Polyvalent reversible heat pump

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. 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 7.1 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

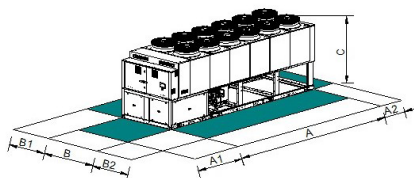


HYDRO
PACK



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:

- 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:

- 4T Configuration for 4-pipe system

ACOUSTIC CONFIGURATION:

- SC Acoustic configuration with compressor soundproofing (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	1,593	1,766	1,935
Total power input	(3)	kW	75.1	82.4	90.5	98	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		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

(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
- CCCA1 Condenser coil with Aluminium Energy Guard DCC treatment
- PFGP Soundproofing paneling of the pumping unit
- IVFCDT Variable flow rate control cooling side by inverter according to the temperature differential
- IVFHDT Variable flow rate control heating side by inverter according to 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
- 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
- 1PMHS Hydropack for hot side with 1 on/off pump
- 1PMHSH Hydropack for hot side with 1 high static pressure on/off pump
- 1PMHSV Hydropack for hot side with 1 inverter pump
- 1PMHSVH Hydropack for hot side with 1 high static pressure inverter pump
- 1+1PMHS Hydropack for hot side with 1+1 on/off pump
- 1+1PMHSH Hydropack for hot side with 1+1 high static pressure on/off pump
- 1+1PMHSV Hydropack for hot side with 1+1 inverter pump
- 1+1PMHSVH Hydropack for hot side with 1+1 high static pressure inverter pump
- 1PMCS Hydropack for cold side with 1 on/off pump
- 1PMCSH Hydropack for cold side with 1 high static pressure on/off pump
- 1PMCSV Hydropack for cold side with 1 inverter pump
- 1PMCSVH Hydropack for cold side with 1 high static pressure inverter pump
- 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