

## SPINCHILLER<sup>4</sup> PL

**Polyvalent reversible heat pump**

Air cooled

Outdoor installation

**Capacity from 225 to 664 kW**



- ✓ Scroll compressors, EC axial fans and two independent circuits for high reliability
- ✓ Polyvalent technology configurable for 4-pipe
- ✓ Refrigerant R32 - GWP = 675
- ✓ Domestic hot water up to 55°C
- ✓ Plate exchanger
- ✓ Two acoustic configurations: standard and super-silenced
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hot side and cold side hydronic assemblies



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website [www.eurovent-certification.com](http://www.eurovent-certification.com)



compliant  
ErP

## functions and features



Heat pump



AIR



Outdoor  
installation



R-32



Hermetic  
Scroll



Electronic  
expansion  
valve



ECOBREEZE

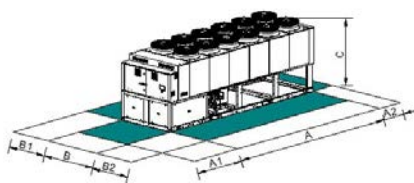


HydroPack



Intelliplant

## dimensions and clearances



Size		90.4	100.4	110.4	120.4	130.4	145.4	160.4	175.4	215.6	230.6	250.6	265.6
SC-EXC A - Length	mm	4114	4114	4114	4114	4114	5091	5091	5091	6066	6066	7033	7045
SC-EXC B - Width	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
SC-EXC C - Height	mm	2530	2530	2530	2530	2530	2530	2530	2530	2530	2530	2530	2530
SC-EXC A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
SC-EXC A2	mm	700	700	700	700	700	700	700	700	700	700	700	700
SC-EXC B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC B2	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC Operating weight	kg	2604	2805	2911	3027	3151	3698	3903	4042	4480	4677	5590	5875

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

SC-EXC Compressors soundproofing (SC)-Excellence

### CAUTION!

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

## versions and configurations

### VERSION:

**EXC** Excellence (Standard)

### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

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

### ENERGY RECOVERY:

**R** Total energy recovery (Standard)

### STRUCTURAL CONFIGURATION:

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

### EVAPORATOR

**EVPHE** Plate heat exchanger (Standard)

### ACOUSTIC CONFIGURATION:

**SC** Acoustic configuration with compressor soundproofing (Standard)

**EN** Super-silenced acoustic configuration

## technical data

Size	▶▶ WSAN-YSC4 PL			90.4	100.4	110.4	120.4	130.4	145.4	160.4	175.4	215.6	230.6	250.6	265.6
Cooling 100% - Heating 0%															
SC-EXC	Cooling capacity (EN 14511:2022)	(1)	kW	225	250	276	307	336	366	409	449	532	573	627	664
SC-EXC	Total power input (EN 14511:2022)	(1)	kW	72,4	84,9	96,5	108	119	126	141	156	195	210	217	237
SC-EXC	EER (EN 14511:2022)	(1)	-	3,11	2,95	2,87	2,85	2,83	2,90	2,90	2,87	2,73	2,73	2,89	2,81
SC-EXC	SEER	(4)	-	4,82	4,70	4,61	4,74	4,80	4,82	4,68	4,65	4,88	4,91	4,94	4,94
SC-EXC	η <sub>sc</sub>	(4)	%	190,0	185,0	182,0	187,0	189,0	190,0	184,0	183,0	192,0	193,0	195,0	195,0
Cooling 0% - Heating 100%															
SC-EXC	Heating capacity (EN 14511:2022)	(2)	kW	231	258	285	317	349	376	419	463	554	599	648	694
SC-EXC	Total power input (EN 14511:2022)	(2)	kW	71,8	80,1	89,3	97,5	106	115	128	140	172	182	199	213
SC-EXC	COP (EN 14511:2022)	(2)	-	3,22	3,23	3,19	3,25	3,31	3,27	3,27	3,31	3,23	3,29	3,26	3,25
Cooling 100% - Heating 100%															
SC-EXC	Cooling capacity (EN 14511:2022)	(3)	kW	221	250	280	315	346	374	418	465	555	601	642	687
SC-EXC	Heating capacity (EN 14511:2022)	(3)	kW	287	326	365	409	448	483	542	598	720	777	832	890
SC-EXC	Total power input (EN 14511:2022)	(3)	kW	66,7	76,2	85,6	94,5	103	111	124	134	167	178	191	205
SC-EXC	TER (EN 14511:2022)	(4)	-	7,61	7,56	7,54	7,65	7,73	7,75	7,72	7,92	7,66	7,74	7,71	7,69
SC-EXC	Refrigeration circuits		Nr	2											
SC-EXC	No. of compressors		Nr	4											
SC-EXC	Type of compressors		-	SCROLL											
SC-EXC	Refrigerant		-	R-32											
SC-EXC	Standard power supply		V	400/3~/50											
SC-EXC	Sound power level	(5)	dB(A)	90	90	90	91	91	92	92	93	93	93	94	94
EN-EXC	Sound power level	(5)	dB(A)	85	85	85	86	87	88	88	89	89	90	90	91
Directive ErP (Energy Related Products)															
SCOP - AVERAGE Climate - W35		(6)	-	3,88	3,91	3,86	3,93	4,01	3,89	3,94	3,93	3,96	3,95	3,97	3,99
η <sub>SH</sub>		(6)	%	152,0	153,0	151,0	154,0	157,0	153,0	155,0	154,0	155,0	155,0	156,0	157,0

(1) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = 12/7°C; Entering external exchanger air temperature = 35°C  
(2) Data compliant to Standard EN 14511:2022 referred to the following conditions: Hot side water temperature = 40/45°C; Entering external exchanger air temperature = 7°C D.B./6°C W.B.  
(3) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = 7/7°C; Hot side water temperature = 45°C  
(4) TER = (Cooling capacity + Heating capacity) / (Total power input)  
(5) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013

(6) Data calculated according to the EN 14825:2018 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤70 kW at specified reference conditions), the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤400 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

## accessories

<b>CCCA</b>	Copper / aluminium condenser coil with acrylic lining
<b>CCCA1</b>	Condenser coil with Aluminium Energy Guard DCC treatment
<b>IVFCDT</b>	Variable flow rate control heating side by inverter according to the temperature differential
<b>IVFHDT</b>	Variable flow-rate control on hot use side by inverter based on the temperature difference
<b>IVFCDTS</b>	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
<b>IVFHDT S</b>	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
<b>IVFCDTF</b>	Variable flow rate control cooling side by inverter according to the temperature differential with a flow meter
<b>IVFHDTF</b>	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
<b>PFGP</b>	Soundproofing paneling of the pumping unit
<b>CSVX</b>	Couple of manually operated shut-off valves
<b>IFWX</b>	Steel mesh strainer on the water side
<b>CMSC10</b>	Serial communication module for LonWorks supervisor
<b>CMSC9</b>	Serial communication module for Modbus supervisor
<b>CMSC11</b>	Serial communication module for BACnet-IP supervisor
<b>RCMRX</b>	Remote control via microprocessor control
<b>CONTA3</b>	M-bus total electricity meter
<b>CONTA4</b>	Total electricity meters and m-bus pump group
<b>RE-25</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
<b>DML4-20</b>	Demand limit with 4-20 mA
<b>DML0-10</b>	Demand limit with 0-10 V
<b>ECS</b>	ECOSHARE function for the automatic management of a group of units

<b>RPRI</b>	Refrigerant leak detector in the casing
<b>SFSTR</b>	Disposal for inrush current reduction
<b>PFCC</b>	Power factor correction capacitors (cosfi > 0.95)
<b>SPC1</b>	Set-point compensation with 4-20 mA
<b>SCP4</b>	Set-point compensation with 0-10 V
<b>PSX</b>	Mains power supply
<b>AMMX</b>	Spring antivibration mounts
<b>AMMSX</b>	Anti-seismic spring antivibration mounts
<b>PGFC</b>	Finned coil protection grill
<b>PGCCH</b>	Anti-hail protection grilles
<b>PSWSA</b>	Differential pressure switch water side with antifreeze protection
<b>2PMCS</b>	Hydropack cooling side with 2 on-off pumps
<b>2PMCS2V</b>	Hydropack on cold user side with 2 pumps and 2 inverters
<b>1+1PMCS</b>	Hydropack cooling side with 1 + 1 on-off pump
<b>1+1PMCSV</b>	Hydropack cooling side with 1 + 1 inverter pump
<b>2PMHS</b>	Hydropack heating side with 2 on-off pumps
<b>2PMHS2V</b>	Hydropack on hot user side with 2 pumps and 2 inverters
<b>1+1PMHS</b>	Hydropack heating side with 1 + 1 on-off pump
<b>1+1PMHSV</b>	Hydropack heating side with 1 + 1 inverter pump
<b>FMCHX</b>	Cooling and heating side flow meters
<b>RDVS</b>	Switching valve with dual safety valves
<b>MISTER1</b>	Indirect energy meter through pressure drops and unit probes temperature differential
<b>MISTER2</b>	Direct energy meter by flow rate and temperature differential with unit probes (available only with options: FMCHX)
<b>IOTX</b>	IoT industrial module for cloud based interoperability & services