

# SPINChiller<sup>4</sup> Polyvalent

Capacity from 61 to 320 tons Preliminary data

61 – 125 tons available from January 2025

Larger capacities up to 320 tons available in Q2 2025

- 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 131F
- Plate heat exchanger or shell & tube heat exchanger
- Two acoustic configurations: standard and super-silenced
- Modular operation management, upto 8 units in cascade
- Available in 230V, 460V and 575V from January 2025



compliant  
ErP

## functions and features



Heat pump



Air cooled



Outdoor  
installation



R-32



Hermetic  
rotary



Hermetic  
Scroll



Full  
inverter



Electronic  
expansion  
valve



ELFOControl<sup>P</sup>  
EVO



Hybrid  
system

## 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)

**EVFTP** Shell and tube evaporator PED test

### ACOUSTIC CONFIGURATION:

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

**EN** Super-silenced acoustic configuration

## accessories

<b>CCCA</b>	Copper / aluminium condenser coil with acrylic lining	<b>DML0-10</b>	Demand limit with 0-10 V
<b>CCCA1</b>	Condenser coil with Aluminium Energy Guard DCC treatment	<b>ECS</b>	ECOSHARE function for the automatic management of a group of units
<b>IVFCDT</b>	Inverter driven variable flow-rate user side control depending on the temperature differential	<b>RPRI</b>	Refrigerant leak detector in the casing
<b>IVFHDT</b>	Variable flow rate control heating side by inverter according to the temperature differential	<b>SFSTR</b>	Disposal for inrush current reduction
<b>IVFCDTS</b>	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor	<b>PFCC</b>	Power factor correction capacitors (cosφ > 0.95)
<b>IVFHDTs</b>	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor	<b>SPC1</b>	Set-point compensation with 4-20 mA
<b>IVFCDTF</b>	Variable flow rate control cooling side by inverter according to the temperature differential with a flow meter	<b>SCP4</b>	Set-point compensation with 0-10 V
<b>IVFHDTF</b>	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor	<b>PSX</b>	Mains power supply
<b>PFGP</b>	Soundproofing paneling of the pumping unit	<b>AMMX</b>	Rubber antivibration mounts
<b>IVFDT</b>	Inverter driven variable flow-rate user side control depending on the temperature differential	<b>AMMSX</b>	Anti-seismic spring antivibration mounts
<b>CSVX</b>	Couple of manually operated shut-off valves	<b>PGFC</b>	Finned coil protection grill
<b>IFWX</b>	Steel mesh strainer on the water side	<b>PGCCH</b>	Anti-hail protection grilles
<b>CMSC10</b>	Serial communication module for LonWorks supervisor	<b>PSWSA</b>	Differential pressure switch water side with antifreeze protection
<b>CMSC9</b>	Serial communication module for Modbus supervisor	<b>2PMCS</b>	Hydropack cooling side with 2 on-off pumps
<b>CMSC11</b>	Serial communication module for BACnet-IP supervisor	<b>2PMCS2V</b>	Hydropack on cold user side with 2 pumps and 2 inverters
<b>RCMRX</b>	Remote control via microprocessor control	<b>1+1PMCS</b>	Hydropack cooling side with 1 + 1 on-off pump
<b>CONTA3</b>	M-bus total electricity meter	<b>1+1PMCSV</b>	Hydropack cooling side with 1 + 1 inverter pump
<b>CONTA4</b>	Total electricity meters and m-bus pump group	<b>2PMMS</b>	Hydropack heating side with 2 on-off pumps
<b>RE-25</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C	<b>2PMMS2V</b>	Hydropack on hot user side with 2 pumps and 2 inverters
<b>DML4-20</b>	Demand limit with 4-20 mA	<b>1+1PMMS</b>	Hydropack heating side with 1 + 1 on-off pump
		<b>1+1PMMSV</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)

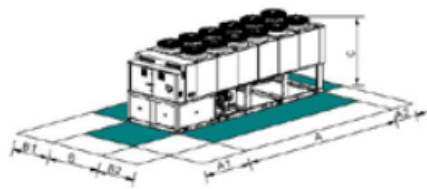
Imperial data will be available soon.

## 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
<b>Cooling 100% - Heating 0%</b>															
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>s,c</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
<b>Cooling 0% - Heating 100%</b>															
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
<b>Cooling 100% - Heating 100%</b>															
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	67.0	76.6	86.0	95.1	103	111	125	135	168	179	192	207
SC-EXC	TER (EN 14511:2022)	(4)	-	7.58	7.53	7.50	7.61	7.69	7.70	7.67	7.86	7.60	7.69	7.66	7.63
SC-EXC	Refrigeration circuits		Nr							2					
SC-EXC	No. of compressors		Nr				4						6		
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
<b>Directive ErP (Energy Related Products)</b>															
SCOP - AVERAGE Climate - W35		(6)	-	3.88	3.91	3.86	3.93	4.01	3.89	3.94	3.93	-	-	-	-
η <sub>s,h</sub>		(6)	%	152.0	153.0	151.0	154.0	157.0	153.0	155.0	154.0	-	-	-	-

Imperial dimensions will be available soon.

dimensions and clearances



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
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

PRELIMINARY DATA