NEW PRODUCT





SPINchiller⁴ PL

Multi-purpose 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 heat exchanger or shell & tube exchanger
- ✓ Two acoustic configurations: standard and super-silenced
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hot side and cold side hydronic units

functions and features















Scroll



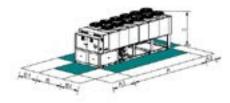




ECOBREEZE

PACK





dimensions and clearances

Size	▶► WSAN-Y	SC4 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	C-EXC B - Width		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

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:

Device for fan consumption reduction of the external section, ECOBREEZE

type (Standard)

ENERGY RECOVERY:

Total energy recovery (Standard)

STRUCTURAL CONFIGURATION:

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)

ΕN Super-silenced acoustic configuration

technical data

Size		►► WSAN-Y	SC4 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 1	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 _{s,c}	(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 1	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	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															
SC-EXC No. of compressors			Nr		4							6			
SC-EXC	Type of compressors		-	SCROLL											
SC-EXC	Refrigerant	,													
SC-EXC	Standard power supply		V	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	-	-	-	-
η _{s,н}		(6)	%	152,0	153,0	151,0	154,0	157,0	153,0	155,0	154,0	-	-	-	-

(1) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = $12/7^{\circ}$ 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 = $40/45^{\circ}$ 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°C; Hot side water temperature = */45° (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 \le 70 kW at specified reference conditions), the Commission delegated Regulation (EU) No 813/2013 (rated heat output \leq 400 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

ECOSHARE function for the automatic management of a group of units

PRELIMINARY DATA

ECS

accossorios

RE-25

acces	sories
CCCA	Copper / aluminium condenser coil with acrylic lining
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment
IVFCDT	Inverter driven variable flow-rate user side control depending on the temperature differential
IVFHDT	Variable flow rate control heating side by inverter according to the temperature differential
IVFCDTS	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
IVFHDTS	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
IVFCDTF	Variable flow rate control cooling side by inverter according to the temperature differential with a flow meter
IVFHDTF	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
PFGP	Soundproofing paneling of the pumping unit
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential
CSVX	Couple of manually operated shut-off valves
IFWX	Steel mesh strainer on the water side
CMSC10	Serial communication module for LonWorks supervisor
CMSC9	Serial communication module for Modbus supervisor
CMSC11	Serial communication module for BACnet-IP supervisor
RCMRX	Remote control via microprocessor control
CONTA3	M-bus total electricity meter
RCMRX	Remote control via microprocessor control

Electrical panel antifreeze protection for min. outdoor temperature down to -25°C

	2000 mile randian for the datamatic management of a group of anti-
RPRI	Refrigerant leak detector in the casing
SFSTR	Disposal for inrush current reduction
PFCC	Power factor correction capacitors (cosfi > 0.95)
SPC1	Set-point compensation with 4-20 mA
SCP4	Set-point compensation with 0-10 V
PSX	Mains power supply
AMMX	Rubber antivibration mounts
AMMSX	Anti-seismic spring antivibration mounts
PGFC	Finned coil protection grill
PGCCH	Anti-hail protection grilles
PSWSA	Differential pressure switch water side with antifreeze protection
2PMCS	Hydropack cooling side with 2 on-off pumps
2PMCS2V	Hydropack on cold user side with 2 pumps and 2 inverters
1+1PMCS	Hydropack cooling side with 1+1 on-off pump
1+1PMCSV	Hydropack cooling side with 1 + 1 inverter pump
2PMMS	Hydropack heating side with 2 on-off pumps
2PMMS2V	Hydropack on hot user side with 2 pumps and 2 inverters
1+1PMMS	Hydropack heating side with 1 + 1 on-off pump
1+1PMMS\	Hydropack heating side with 1 + 1 inverter pump
FMCHX	Cooling and heating side flow meters
RDVS	Switching valve with dual safety valves
MISTER1	Indirect energy meter through pressure drops and unit probes
	temperature differential
MISTER2	Direct energy meter by flow rate and temperature differential with unit
	probes (available only with options: FMCHX)

DML4-20 Demand limit with 4-20 mA DMLO-10 Demand limit with 0-10 V

CONTA4 Total electricity meters and m-bus pump group

Accessories whose code ends with "X" are supplied separately

Data contained in this document are not binding and may be changed by the Manufacturer without notice