



# PRODUCTS AND SYSTEMS APPLIED



## Sheen EVO 2.0

#### Capacity from 7 to 30 tons. Preliminary data

Available from November 2024.

Air-cooled Heat Pump with inverter rotary/scroll compressors

- Full inverter technology
- Refrigerant R32 GWP = 675
- o Hot water up to 140F, chiller water down to 32 F, operation down to -4F
- o Two acoustic levels: standard and super silenced
- Available with a condensing boiler for instant DHW production
- o Power supply 230V. Power supply 460, 575 V coming in 2025

#### functions and features











rotary









expansion

Hybrid

#### versions and configurations

#### TYPE OF FANS:

VEND DC high efficiency fan (Standard)

#### ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard) ΕN Super-silenced acoustic configuration

#### accessories

Hydronic assembly with 1 ON/OFF pump HYG1 **HYGU1V** User side hydronic group with 1 inverter pump ACC Storage tank

**IFWX** Steel mesh strainer on the water side **AVIBX** Anti-vibration mount support

IFWI Steel mesh strainer on the water side include in the packaging **REMAUX** Advanced remote control module for auxiliary controls of sheen/storm **AMMSX** Anti-seismic spring antivibration mounts

**AVIBI** Anti-vibration mount support **PGFC** Finned coil protection grill **PGFCX** Finned coil protection grill VACS DHW switching valve

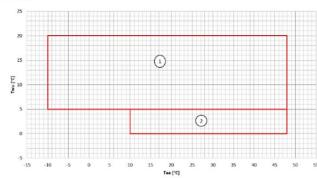
## Imperial data will be available soon.

Size												
SC-EXC	<ul> <li>Cooling capacity (EN 14511:2018)</li> </ul>	(1)	kW	24,0	26,6	30,2	43,8		49,6	57.2	70,0	81,6
SC-EXC	Total power input (EN 14511:2018)	(1)	kW	7,49	9,08	10,5	14,1		16,3	20,0	22,9	28,1
SC-EXC	EER (EN 14511:2018)	(1)	-	3,20	2,93	2,86	3,11		3.04	2.84	3,05	2,90
SC-EXC	SEER	(4)		4,77	4,70	4,54	4,33		4,35	4,38	4,17	4,12
SC-EXC	nsc	(4)	%	187,8	184,9	178,7	170,0		170,9	172,1	163,9	161,8
SC-EXC	<ul> <li>Heating capacity (EN 14511:2018)</li> </ul>	(2)	kW	24,2	28,8	34,1	50,5		55,3	63,3	74,9	85,8
SC-EXC	Total power input (EN 14511:2018)	(2)	kW	7,28	8,81	10,7	14,2		15,9	19,2	20,2	24,1
SC-EXC	COP (EN 14511:2018)	(2)	-	3,33	3,28	3,20	3,55		3,49	3,31	3,71	3,56
C-EXC	Refrigeration circuits		Nr					1				
SC-EXC	No. of compressors		Nr		1					2		
SC-EXC	Type of compressors					ROTAR	Y INVERTER				SCROLL IN	VERTER
C-EXC	Refrigerant		-					R-32				
SC-EXC	Standard power supply		V				4	400/3~/5	0			
SC-EXC	Sound power level	(3)	dB(A)	73	74	75	75		76	78	78	81
N-EXC	Sound power level	(3)	dB(A)	69	71	72	71		71	72	73	75
Directive	ErP (Energy Related Products)											
SCOP - AV	ERAGE Climate - W35	(4)	-	4,54	4,49	4,44	4,46		4,46	4,41	4,39	4,34
Лѕн				470.0								
		(4)	%	179,0	177,0	175,0	175,0		175,0	173,0	173,0	171,0
Size SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM	Cooling capacity (EN14511:2018)     Total power input (EN14511:2018)     EER (EN14511:2018)     SEER     Insc     Heating capacity (EN14511:2018)     Total power input (EN14511:2018)     COP (EN14511:2018)	(1) (1) (1) (4) (4) (2) (2) (2)	kW kW - - % kW kW	25,2 8,34 3,02 4,50 177,0 27,0 8,40 3,21	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3 3,15	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6 3,29	60,7 22,0 2,75 4,07 159,8 66,6 21,2 3,14	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9 3,05	94,2 35,8 2,82 3,87 151,1 102 35,5
Size SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  nsc  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits	(1) (1) (1) (4) (4) (4) (2) (2)	KW KW - - - KW KW - Nr	25,2 8,34 3,02 4,50 177,0 27,0 8,40	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3	45,7 15,4 2,95 4,04 158,5 52,5 15,8	52,1 18,1 2,88 4,09 160,6 57,9 17,6	60,7 22,0 2,75 4,07 159,8 66,6 21,2	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9	94,; 35,; 2,8; 3,8; 151, 102, 35,;
Size SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  ŋsc  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits  No. of compressors	(1) (1) (1) (4) (4) (4) (2) (2)	KW KW	25,2 8,34 3,02 4,50 177,0 27,0 8,40	27,6 10,1 2,74 4,40 173,0 29,8 9,32	32,2 11,8 2,73 4,24 166,6 35,7 11,3 3,15	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6	60,7 22,0 2,75 4,07 159,8 66,6 21,2	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9 3,05	94, 35, 2,8 3,8 151, 102 35, 2,8
Size SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  Tisc.  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits  No. of compressors  Type of compressors	(1) (1) (1) (4) (4) (4) (2) (2)	KW % KW KW KW Nr	25,2 8,34 3,02 4,50 177,0 27,0 8,40	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6 3,29	60,7 22,0 2,75 4,07 159,8 66,6 21,2	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9	94, 35, 2,8 3,8 151, 102 35,
Size SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  Tisc.  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits  No. of compressors  Type of compressors  Refrigerant	(1) (1) (1) (4) (4) (4) (2) (2)	KW KW - - % KW KW - Nr	25,2 8,34 3,02 4,50 177,0 27,0 8,40	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3 3,15	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6 3,29 1	60,7 22,0 2,75 4,07 159,8 66,6 21,2 3,14	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9 3,05	94, 35, 2,8 3,8 151, 102 35, 2,8
Size SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  Tisc  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits  No. of compressors  Type of compressors  Refrigerant  Standard power supply	(1) (1) (1) (4) (4) (2) (2) (2) (2)	KW KW % KW KW - Nr Nr V	25,2 8,34 3,02 4,50 177,0 27,0 8,40 3,21	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3 3,15	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6 3,29 1	60,7 22,0 2,75 4,07 159,8 66,6 21,2 3,14	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9 3,05	94, 35, 2,8 3,8 151, 102 35, 2,8
Size SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM SC-PRM	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  Isc  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits  No. of compressors  Type of compressors  Refrigerant  Standard power supply  Sound power level	(1) (1) (1) (4) (4) (2) (2) (2) (2)	kW kW - - - - - - - Nr - - Nr - - - - V dB(A)	25,2 8,34 3,02 4,50 177,0 27,0 8,40 3,21	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3 3,15 ROTARY IN	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6 3,29 1 R-32 400/3~/5	60,7 22,0 2,75 4,07 159,8 66,6 21,2 3,14	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9 3,05	94, 35, 2,8 3,8 151, 10, 35, 2,8
Size SC-PRM	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  Iss:  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits  No. of compressors  Type of compressors  Refrigerant  Standard power supply  Sound power level  Sound power level	(1) (1) (1) (4) (4) (2) (2) (2) (2)	KW KW % KW KW - Nr Nr V	25,2 8,34 3,02 4,50 177,0 27,0 8,40 3,21	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3 3,15	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6 3,29 1	60,7 22,0 2,75 4,07 159,8 66,6 21,2 3,14	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9 3,05	94 35 2,8 3,8 151 10 35 2,8
Size SC-PRM Directiv	Total power input (EN14511:2018)  EER (EN14511:2018)  SEER  Isc  Heating capacity (EN14511:2018)  Total power input (EN14511:2018)  COP (EN14511:2018)  Refrigeration circuits  No. of compressors  Type of compressors  Refrigerant  Standard power supply  Sound power level	(1) (1) (1) (4) (4) (2) (2) (2) (2)	kW kW - - - - - - - Nr - - Nr - - - - V dB(A)	25,2 8,34 3,02 4,50 177,0 27,0 8,40 3,21	27,6 10,1 2,74 4,40 173,0 29,8 9,32 3,20	32,2 11,8 2,73 4,24 166,6 35,7 11,3 3,15 ROTARY IN	45,7 15,4 2,95 4,04 158,5 52,5 15,8 3,33	52,1 18,1 2,88 4,09 160,6 57,9 17,6 3,29 1 R-32 400/3~/5	60,7 22,0 2,75 4,07 159,8 66,6 21,2 3,14	74,3 25,5 2,90 3,96 155,4 78,5 23,5 3,34	86,2 31,5 2,85 3,91 153,4 91,2 29,9 3,05	94 35 2,8 3,8 151 10 35 2,8

#### Operating range - Excellence



 $\eta_{SH}$ 



(4)

169,0



161,0

166,0

165,0

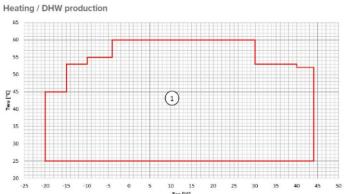
164,0

162,0

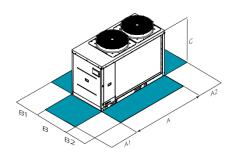
160,0

162,0

166,0



## 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	<b>▶▶</b> WiSA	N-YSE1	10.1	12.1	14.1	16.2	18.2	22.2	30.2	35.2
SC-EXC	A - Length	mm	1920	1920	1920	2274	2274	2274	3300	3300
SC-EXC	B - Width	mm	1005	1005	1005	1060	1060	1060	1100	1100
SC-EXC	C - Height	mm	1340	1340	1340	1480	1480	1480	1510	1510
SC-EXC	A1	mm	800	800	800	800	800	800	800	800
SC-EXC	A2	mm	800	800	800	800	800	800	800	800
SC-EXC	B1	mm	800	800	800	800	800	800	800	800
SC-EXC	B2	mm	800	800	800	800	800	800	800	800
SC-EXC	Operating weight	kg	298	298	298	530	530	530	830	830

Size	•	<b>▶ WISAN-YSE1</b>	10.1	12.1	14.1	16.2	18.2	22.2	30.2	35.2	40.2
SC-PRM	A - Length	mm	1920	1920	1920	2274	2274	2274	3300	3300	3300
SC-PRM	B - Width	mm	1005	1005	1005	1060	1060	1060	1100	1100	1100
SC-PRM	C - Height	mm	1340	1340	1340	1480	1480	1480	1510	1510	1510
SC-PRM	A1	mm	800	800	800	800	800	800	800	800	800
SC-PRM	A2	mm	800	800	800	800	800	800	800	800	800
SC-PRM	B1	mm	800	800	800	800	800	800	800	800	800
SC-PRM	B2	mm	800	800	800	800	800	800	800	800	800
SC-PRM	Operating weigh	ht kg	298	298	298	530	530	530	830	830	830

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.

## **NEW PRODUCT**



## **Large EVO**

## Capacity from 31 to 71 tons

#### **Available from November 2024**

## **Preliminary data**

#### Air-cooled Heat Pump with inverter rotary/scroll compressors

- Full inverter technology
- o Refrigerant R32 GWP = 675
- Hot water up to 140F, chiller water down to 17.6 F, operation down to -4F
- Three acoustic levels: standard, silenced and super silenced
- Power supply 230V. Power supply 460, 575 V coming in 2025

#### functions and features













Scroll



inverte



expansion

valve



EVO

## versions and configurations

#### TYPE OF FANS:

VENDC DC high efficiency fan (Standard)

#### ENERGY RECOVERY:

Energy recovery: not required (Standard)

Partial energy recovery

#### ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)

LN Silenced acoustic configuration
EN Super-silenced acoustic configuration

#### accessories

1PM Hydropack with 1 pump 1PMV Hydropack user side with nr.1 inverter pump **1PMH** Hydropack with nr.1 high static pressure pump 1PMVH Hydropack user side with nr.1 high static pressure inverter pump 1P1SB Hydropack user side with 1+1 on-off pump 1PAP+S 1 high head pump + 1 stand-by pump 1P1SBV Hydropack on user side with one inverter pump and one stand-by pump with dedicated inverter Hydropack on user side with one high head inverter pump and one stand-1PAPSV by pump with dedicated inverter

ACC Storage tank

VACS DHW switching valve: required
ABU Flush hydraulic connections

CMSC13 Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP superviso REMAU Additional board for advanced function management RPR Refrigerant leak detector
AVIBX Anti-vibration mount support
AMMSX Anti-seismic spring antivibrat

AMMSX Anti-seismic spring antivibration mounts
PGFC Finned coil protection grill

PGCCH Anti-hail protection grilles
PGCCHX Anti-hail protection grilles

TCDC Condensate collection pan with electric heater

IOTX IoT industrial module for cloud based interoperability & services

Only WiSAT-YEE1:

CCME Microchannel coil

Only WiSAN-YEE1:

CCCA Copper / aluminium condenser coil with acrylic lining

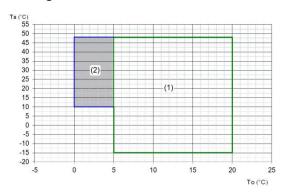
CCCA1 Condenser coil with Aluminium Energy Guard DCC treatment Accessories whose code ends with "X" are supplied separately

WiSAT-YEE1: Cooling Only / WiSAN-YEE1: Reversible Heat Pump

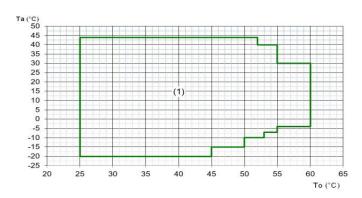
Imperial data will be available soon.

SC-EXC				PP WISA	AT-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
3C-EVC	<ul> <li>Cooling capacity (EN 14511</li> </ul>	:2022)		(1)	kW	110	118	133	142	156	169	183	196	209	226
SC-EXC	Total power input (EN 1451	1:2022)		(1)	kW	34,2	38,5	46,1	50,3	50,0	54,6	64,0	59,4	65,5	74,2
SC-EXC	EER (EN 14511:2022)			(1)	-	3,22	3,08	2,89	2,82	3,12	3,09	2,86	3,31	3,19	3,04
SC-EXC	SEER			(4)		5,07	5,05	4,94	4,93	5,25	5,24	5,19	5,34	5,31	5,28
SC-EXC	η <sub>s,c</sub>			(4)	%	200,0	199,0	194,0	194,0	207,0	207,0	205,0	211,0	210,0	208,0
SC-EXC	Refrigeration circuits				Nr						2				
SC-EXC	No. of compressors				Nr						4				
SC-EXC	Type of compressors				-	ROTARY	NVERTER		•			SCROLL I	NVERTER		
SC-EXC	Refrigerant				-					R-	32				
SC-EXC	Standard power supply				٧					400/3	N~/50				
SC-EXC	Sound power level			(3)	dB(A)	84	84	84	84	85	85	85	88	89	89
LN-EXC	Sound power level			(3)	dB(A)	81	81	81	81	82	82	82	84	85	85
EN-EXC	Sound power level			(3)	dB(A)	78	78	78	78	79	79	79	80	81	81
Size				▶► WiSA	AT-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
SC-PRM	<ul> <li>Cooling capacity (EN 14511</li> </ul>	:2022)		(1)	kW	125	135	143	155	174	192	211	226	241	252
SC-PRM	Total power input (EN 1451			(1)	kW	44.2	49.2	53.5	58.8	62.4	73.2	71.6	78.1	80.3	86.0
SC-PRM	EER (EN 14511:2022)			(1)		2,83	2,74	2,67	2,64	2,79	2,63	2.94	2,90	3,00	2.93
SC-PRM	SEER			(4)		4.76	4,71	4.70	4,77	4,91	4.90	5.06	5.03	5,06	5,05
SC-PRM	η <sub>sc</sub>			(4)	%	188.0	185.0	185.0	188.0	193.0	193,0	199.0	198.0	199.0	199,0
SC-PRM	Refrigeration circuits				Nr						2				
SC-PRM	No. of compressors				Nr						4				
SC-PRM	Type of compressors					RO	TARY INVER	TER				SCROLL I	NVERTER		
SC-PRM	Refrigerant									R-	32				
SC-PRM	Standard power supply				٧					400/3	N~/50				
SC-PRM	Sound power level			(3)	dB(A)	86	86	86	87	87	90	91	91	91	91
LN-PRM	Sound power level			(3)	dB(A)	83	83	83	84	84	87	88	88	88	88
EN-PRM	Sound power level			(3)	dB(A)	80	80	80	81	81	84	85	85	85	85
Size		WiSAN	VEE1	45.4		50.4	55.4	60.4	. 6	5.4	70.4	75.4	8	0.4	85.4
	capacity (EN 14511:2022)	(1)	kW	115		127	139	152		164	176	196		215	233
-	ower input (EN 14511:2022)	(1)	kW	44.0		51.0	56.3	66.5		6.8	75.2	73,6		5.8	99.0
	14511:2022)	(1)		2,61		2,49	2,47	2,29		2.46	2.34	2,66		.51	2,35
SEER	11011.2022/	(4)	-	4,51		4,51	4,36	4,28		1.48	4,45	4,48		.45	4,42
η <sub>s.c</sub>		(4)	%	177,4		177,4	171,4	168,2		76,2	175,0	176,2		5.0	173,8
	capacity (EN 14511:2022)	(2)	kW	118		130	150	170		190	210	230		50	268
	ower input (EN 14511:2022)	(2)	kW	37.7		43.2	47.3	55.1		60.0	67.7	70.5		9,7	88.7
	V 14511:2022)	(2)	-	3.13		3.01	3,17	3.09		3,17	3,10	3,26		3.14	3.02
Refrigeration		1-7	Nr			-,		-,,,,,		2	-,			,,,,	
No. of com			Nr							4					
Type of cor				ROTA	RY INVER	TER				•	9	CROLL INVE	RTER		
Refrigerant									R	1-32					
	oower supply									3N~/50					
	power level	(3)	dB(A)	85		85	86	86		88	88	89		89	89
,		(3)	dB(A)	81		81	82	82		84	84	85		85	85
LN-Sound							78								
	power level	(3)	dB(A)	77		77	78	/8		80	80	81		81	81
EN-Sound	power level ErP (Energy Related Prod	ucts)	dB(A)	77		//	/8	/8		80	80	81		81	81
EN-Sound Directive	power level EFP (Energy Related Prod ERAGE Climate - W35		dB(A)	4,16		4,12	4,15	4,08		4,19	4,15	4,23		1,16	4,11

## Cooling



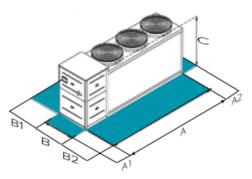
## Heating



- Standard unit operating range
   Operating range where the use of glycol is mandatory in relation to the temperature of the outlet water from the user side exchanger
   Standard unit operating range

## Imperial dimensions will be available soon.

### dimensions and clearances



Size	▶▶ WiSA	<b>I-YEE1</b>	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
SC-EXC	A - Length	mm	3310	3310	3310	3310	4300	4300	4300	4300	4300	4300
SC-EXC	B - Width	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC	C - Height	mm	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
SC-EXC	A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SC-EXC	A2	mm	800	800	800	800	800	800	800	800	800	800
SC-EXC	B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-EXC	B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-EXC	Operating weight	kg	894	894	904	904	1154	1154	1154	1180	1180	1180

Size	▶▶ WiSAT	-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
SC-PRM	A - Length	mm	3310	3310	3310	3310	4300	4300	4300	4300	4300	4300
SC-PRM	B - Width	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM	C - Height	mm	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
SC-PRM	A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SC-PRM	A2	mm	800	800	800	800	800	800	800	800	800	800
SC-PRM	B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-PRM	B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-PRM	Operating weight	kg	894	894	894	904	1154	1154	1180	1180	1180	1180

Size	<b>▶▶</b> WiSAN-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4
A - Length	mm	3310	3310	3310	3310	4300	4300	4300	4300	4300
B - Width	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200
C - Height	mm	1900	1900	1900	1900	1900	1900	1900	1900	1900
A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000
A2	mm	800	800	800	800	800	800	800	800	800
B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350
B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350
Operating weight	t ka	966	966	1009	1009	1250	1250	1352	1352	1352



## SPINchiller<sup>4</sup>

## Capacity from 61 to 320 tons

**Preliminary data** 

## 61 - 125 tons available from November this year Larger capacities up to 320 tons available in Q2 2025

Air-cooled Heat Pump with inverter rotary/scroll compressors

- Scroll compressors, EC fans, two circuits
- Refrigerant R32 GWP = 675 0
- Hot water up to 131F, operation down to 5 F 0
- Thre acoustic configurations 0
- Modular operation management up to 8 units 0
- Power supply 230V, 460V, 575V

#### functions and features



(WSAT-YSC4)



(WSAN-YSC4)











Scroll





valve







## versions and configurations

#### VERSION:

**EXC** Excellence (Standard)

**PRM** Premium

#### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

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

#### **ENERGY RECOVERY:**

Energy recovery: not required (Standard)

D Partial energy recovery

R Total energy recovery (WSAT-YSC4 only)

#### **EVAPORATOR**

**EVPHE** Plate heat exchanger (Standard) Shell and tube evaporator PED test

#### ACOUSTIC CONFIGURATION:

ST Standard acoustic configuration

SC Acoustic configuration with compressor soundproofing (Standard)

ΕN Super-silenced acoustic configuration

#### LOW TEMPERATURE

Energy recovery: not required (Standard)

В Water low temperature

#### accessories

Hydropack with 1 pump

Hydropack user side with nr.1 inverter pump

Hydropack with nr.1 high static pressure pump

Hydropack user side with nr.1 high static pressure inverter pump

Hydropack user side with 2 pumps

Hydropack user side with no.2 of inverter pumps

Hydropack user side with nr.2 high static pressure pump

Hydropack lato utilizzo con n°2 pompe ad inverter alta prevalenza

Inverter driven variable flow-rate user side control depending on the temperature differential

Steel mesh strainer on the water side

Couple of manually operated shut-off valves

Storage tank

Rubber antivibration mounts

Energy meter

Remote control via microprocessor control

Mains power supply

Serial communication module for LonWorks supervisor

Serial communication module for Modbus supervisor

Serial communication module for BACnet-IP supervisor

Set-point compensation with 0-10 V signal

Set point compensation with 4-20 mA signal

ECOSHARE function for the automatic management of a group of units

Power factor correction capacitors (cosfi > 0.9)

Disposal for inrush current reduction

Electrical panel antifreeze protection for min. outdoor temperature down to -25  $^{\circ}\mathrm{C}$ 

High and low pressure gauges

Cutoff valve on compressor supply and return

Anti-seismic spring antivibration mounts

Refrigerant leak detector in the casing

Demand limit with 4-20 mA

Demand limit with 0-10 V

Soundproofing paneling of the pumping unit

Differential pressure switch water side with antifreeze protection

Microchannel coils protection panels

Finned coil protection grilles and compressor compartment

Microchannel e-coated coil

Electrical panel antifreeze protection for min. outdoor temperature down to -39  $^{\circ}\text{C}$ 

Variable flow-rate control of the inverter pump external to the unit depending on the temperature differential

Copper / aluminium condenser coil with acrylic lining

Condenser coil with Aluminium Energy Guard DCC treatment

Anti-hail protection grilles

Finned coil protection grill

## Imperial data will be available soon.

Sound power level

#### WSAT - cooling only / WSAN - reversible heat pump

techni	ical data												
Size		▶► WS	AT-YSC4	80.3	100.4	115.4	130.4	155.5	170.5	185.5	210.6	225.6	240.6
ST/SC-EXC	<ul> <li>Cooling capacity (EN 14511:2018)</li> </ul>	(1)	kW	222	267	314	364	423	472	520	573	624	675
ST/SC-EXC	Total power input (EN 14511:2018)	(1)	kW	69,4	85,5	99,8	115	135	149	167	184	200	218
ST/SC-EXC	EER (EN 14511:2018)	(1)	-	3,20	3,12	3,15	3,17	3,15	3,16	3,11	3,12	3,12	3,10
ST/SC-EXC	SEER	(4)	-	4,70	4,67	4,78	4,75	4,92	5,00	4,96	4,94	4,96	4,90
ST/SC-EXC	η <sub>s,c</sub>	(4)	%	185,2	183,8	188,3	187,1	193,6	197,0	195,5	194,6	195,4	193,1
ST/SC-EXC	Refrigeration circuits		Nr						2				
ST/SC-EXC	No. of compressors		Nr	3		4			5			6	
ST/SC-EXC	Type of compressors		-					SCI	ROLL				
ST/SC-EXC	Refrigerant		-					R	-32				
ST/SC-EXC	Standard power supply		V					400/	3~/50				
ST-EXC	Sound power level	(3)	dB(A)	90	91	92	93	94	95	95	96	96	97
SC-EXC	Sound power level	(3)	dB(A)	87	88	89	90	90	91	91	92	92	93
EN-EXC	Sound power level	(3)	dB(A)	84	84	86	86	86	87	88	88	88	89
Size		▶► WS	AT-YSC4	90.3	110.4	130.4	145.	4 17	0.5 1	85.5	210.6	225.6	240.6
ST/SC-PRM	<ul> <li>Cooling capacity (EN 14511:2018)</li> </ul>	(1)	kW	232	291	333	384	4	43	483	537	590	644
ST/SC-PRM	Total power input (EN 14511:2018)	(1)	kW	84,5	102	124	139	1	56	179	199	209	233
ST/SC-PRM	EER (EN 14511:2018)	(1)	-	2,74	2,85	2,70	2,77	2	.84	2,70	2,70	2,82	2,76
ST/SC-PRM	SEER	(4)	-	4,38	4,48	4,46	4,47	4	.65	4,64	4,61	4,69	4,62
ST/SC-PRM	η <sub>s.c</sub>	(4)	%	172,3	176,1	175,4	175,8	3 18	3,0	182,5	181,2	184,7	181,9
ST/SC-PRM	Refrigeration circuits		Nr						2				
ST/SC-PRM	No. of compressors		Nr	3		4			5			6	
ST/SC-PRM	Type of compressors		-					SCI	ROLL				
ST/SC-PRM	Refrigerant		-					R	-32				
ST/SC-PRM	Standard power supply		V					400/	3~/50				
ST-PRM	Sound power level	(3)	dB(A)	90	91	92	93	9	94	94	95	96	96
SC-PRM	Sound power level	(3)	dB(A)	87	88	89	89		90	90	91	92	92
E11 DD11		401	100.000										

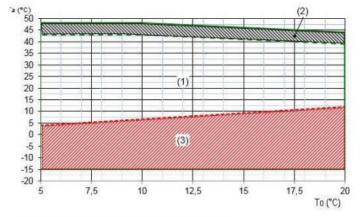
Size	▶► WSA	N-YSC4	80.3	90.4	100.4	110.4	120.4	130.4	145.4	160.4	185.5	210.6	225.6	240.6
ST/SC-EXC • Cooling capacity (EN 14511:2018)	(1)	kW	215	240	265	290	320	355	390	430	500	555	610	655
ST/SC-EXC Total power input (EN 14511:2018)	(1)	kW	72,9	76,4	84,7	94,9	106	114	128	143	163	188	198	218
ST/SC-EXC EER (EN 14511:2018)	(1)	-	2,95	3,14	3,13	3,05	3,02	3,11	3,04	3,00	3,06	2,96	3,08	3,01
ST/SC-EXC SEER	(4)	-	4,45	4,79	4,74	4,81	4,84	4,86	4,78	4,72	4,88	4,84	4,89	4,86
ST/SC-EXC $\eta_{s,c}$	(4)	%	175,0	188,5	186,6	189,4	190,4	191,3	188,1	186,0	192,1	190,7	192,6	191,5
ST/SC-EXC  • Heating capacity (EN 14511:2018)	(2)	kW	225	255	280	310	335	375	415	455	530	585	640	685
ST/SC-EXC Total power input (EN 14511:2018)	(2)	kW	69,9	78,8	85,6	95,2	103	114	125	137	160	178	199	211
ST/SC-EXC COP (EN 14511:2018)	(2)	-	3,22	3,24	3,27	3,26	3,26	3,29	3,32	3,31	3,32	3,28	3,22	3,24
ST/SC-EXC Refrigeration circuits		Nr							2					
ST/SC-EXC No. of compressors		Nr	3				4				5		6	
ST/SC-EXC Type of compressors		-						SCF	OLL					
ST/SC-EXC Refrigerant		-						R-	32					
ST/SC-EXC Standard power supply		V						400/	3~/50					
SC-EXC Sound power level	(3)	dB(A)	87	88	89	89	89	91	91	91	92	92	93	93
EN-EXC Sound power level	(3)	dB(A)	84	85	86	86	86	86	87	87	88	89	90	90
Directive ErP (Energy Related Products)														
SCOP - AVERAGE Climate - W35	(4)	-	3,73	3,90	3,92	4,10	4,08	4,05	4,00	4,10	-	-	-	-
Лзн	(4)	%	146,0	153,0	154,0	161,0	160,0	159,0	157,0	161,0	-	-	-	_
Size	▶► WSA	N-YSC4	90.3	100.3	110.4	120.	4 130	.4 14	5.4 10	50.4	185.5	210.6	225.6	240.6
ST/SC-PRM . Cooling capacity (EN 14511:2018)	(1)	kW	235	255	275	300	335	5 3	70	405	480	530	585	630
ST/SC-PRM Total power input (EN 14511:2018)	(1)	kW	83,7	94,1	102	116	119	1	36	155	172	200	207	227
ST/SC-PRM EER (EN 14511:2018)	(1)	-	2,80	2,71	2,70	2,59	2,8	1 2	72	2,61	2,80	2,65	2,83	2,77
ST/SC-PRM SEER	(4)	-	4,26	4,24	4,35	4,37	4,5	5 4,	57	4,33	4,64	4,62	4,66	4,64
ST/SC-PRM η <sub>s,c</sub>	(4)	%	167,2	166,7	171,0	171,6	178,	9 17	9,9	70,1	182,8	181,8	183,4	182,5
ST/SC-PRM • Heating capacity (EN 14511:2018)	(2)	kW	240	265	285	315	350	3	85	420	500	555	610	655
ST/SC-PRM Total power input (EN 14511:2018)	(2)	kW	76,4	85,5	92,3	102	112	. 1	24	134	157	175	191	206
ST/SC-PRM COP (EN 14511:2018)	(2)	-	3.15	3.10	3.09	3.09	3.12	) 3	10	3,13	3,19	3,17	3,18	3,18
ST/SC-PRM Refrigeration circuits	(4)	-	3,13	3,10	5,05	0,00	يارن							
	(2)	Nr	3,13	3,10	3,03	5,05	3,12		2					
ST/SC-PRM No. of compressors	(2)		3	3,10	5,05	5,05	4		2		5		6	
	(2)	Nr		3,10	5,05	5,05					5		6	
ST/SC-PRM No. of compressors	(2)	Nr Nr		3,10	3,03	3,03		SCI	2		5		6	
ST/SC-PRM No. of compressors ST/SC-PRM Type of compressors	(2)	Nr Nr		3,10	3,03	5,03		SCI R-	2 ROLL		5		6	
ST/SC-PRM No. of compressors ST/SC-PRM Type of compressors ST/SC-PRM Refrigerant	(3)	Nr Nr		88	88	88		SCF R- 400/	2 ROLL 32 3"/50	90	5	91	92	92
ST/SC-PRM No. of compressors ST/SC-PRM Type of compressors ST/SC-PRM Refrigerant ST/SC-PRM Standard power supply		Nr Nr - - V	3				4	SCF R- 400/	2 ROLL 32 3~/50	90 87		91 89		92
ST/SC-PRM No. of compressors ST/SC-PRM Type of compressors ST/SC-PRM Refrigerant ST/SC-PRM Standard power supply SC-PRM Sound power level	(3)	Nr Nr - - V dB(A)	3 87 85	88	88		90	SCF R- 400/	ROLL 32 3°/50 90	87	91 88		92	
ST/SC-PRM No. of compressors ST/SC-PRM Type of compressors ST/SC-PRM Refrigerant ST/SC-PRM Standard power supply SC-PRM Sound power level EN-PRM Sound power level	(3)	Nr Nr - - V dB(A)	3 87	88	88	88	90	SCF R- 400/ 1 5 8	ROLL 32 3°/50 90		91		92	

(f) Data calculated in compliance with Standard EN 1451:2018 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Entering external exchanger air temperature = 35°C (2) Data compliant to Standard EN 1451:2018 referred to the following conditions: - Internal exchanger water temperature = 40/145°C.- Entering external exchanger air temperature = 7°C D.8/6°C W.B. (3) 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 (4) 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.

## **Operating range - Cooling**

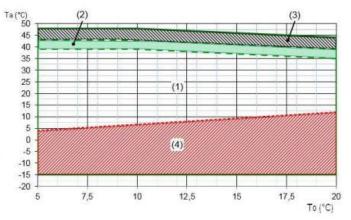
#### Excellence ST/SC



Ta (°C) = external exchanger inlet air temperature (D.B.) To (°C) = internal exchanger outlet water temperature

- 1. Standard unit operating range at full load
- 2. Unit operating range with automatic staging of the compressor capacity
- 3. Unit operating range with air flow automatic modulation

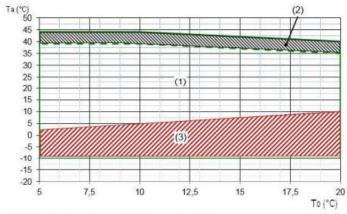
#### Excellence EN



Ta (°C) = external exchanger inlet air temperature (D.B.)
To (°C) = internal exchanger outlet water temperature

- 1. Standard unit operating range at full load
- Extended operating range with air flow-rate automatic increasing. Inside this field the sound levels are the same of the 'compressor soundproofing (SC)' acoustic configuration
- 3. Unit operating range with automatic staging of th compressor capacity
- 4. Unit operating range with air flow-rate automatic modulation

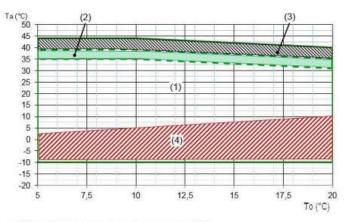
#### Premium ST/SC



Ta (°C) = external exchanger inlet air temperature (D.B.) To (°C) = internal exchanger outlet water temperature

- Standard unit operating range at full load
- Unit operating range with automatic staging of the compressor capacity
- 3. Unit operating range with air flow automatic modulation

#### Premium EN

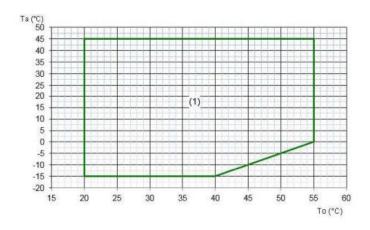


Ta (°C) = external exchanger inlet air temperature (D.B.) To (°C) = internal exchanger outlet water temperature

- Standard unit operating range at full load.
- Extended operating range with air flow-rate automatic increasing. Inside this field the sound levels are the same of the 'compressor soundproofing (SC)' acoustic configuration
- Unit operating range with automatic staging of th compressor capacity
  Unit operating range with air flow automatic modulation

## **Operating range - Heating**

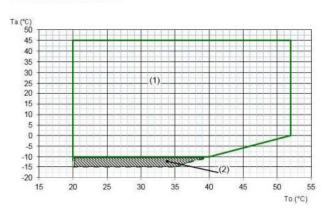
#### Excellence ST/SC/EN



Ta (°C) = external exchanger inlet air temperature (D.B.) To (°C) = internal exchanger outlet water temperature

1. Standard unit operating range at full load

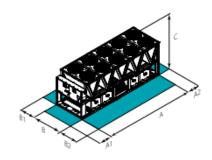
#### Premium ST/SC/EN



Ta (°C) = external exchanger inlet air temperature (D.B.) To (°C) = internal exchanger outlet water temperature

- Standard unit operating range at full load Unit operating range with automatic staging of the compressor capacity

### dimensions and clearances



#### CAUTION!

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

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

SC-PRM Compressors soundproofing (SC)-Premium

Size	▶► WSA	T-YSC4	80.3	100.4	115	5.4 1	30.4	155.5	170.	5 185	.5 21	0.6	225.6	240.6
SC-EXC	A - Length	mm	2925	2925	41	75	4175	5417	5417	541	7 6	680	6680	6680
SC-EXC	B - Width	mm	2228	2228	22	28	2228	2228	2228	222	8 2	228	2228	2228
SC-EXC	C - Height	mm	2535	2535	25	35	2535	2535	2535	253	5 2	535	2535	2535
SC-EXC	A1	mm	1500	1500	150	00	1500	1500	1500	150	0 1	500	1500	1500
SC-EXC	A2	mm	700	700	70	00	700	700	700	700	) 7	00	700	700
SC-EXC	B1	mm	1200	1200	120	00	1200	1200	1200	120	0 1	200	1200	1200
SC-EXC	B2	mm	2250	2250	22	50	2250	2250	2250	225	0 2	250	2250	2250
SC-EXC	Operating weight	kg	1879	1898	23	45	2494	2979	3152	331	4 3	810	3943	4100
Size	▶► WSA	T-YSC4	90.3	110.	4 1	30.4	145	.4 17	0.5	85.5	210	.6 2	25.6	240.6
SC-PRM	A - Length	mm	2925	292	5	2925	417		175	4175	541		5417	5417
SC-PRM	B - Width	mm	2228	222	8:	2228	222		228	2228	222		2228	2228
SC-PRM	C - Height	mm	2535	253	5	2535	253	35 2	535	2535	253	5	2535	2535
SC-PRM	A1	mm	1500	150	0	1500	150	0 1	500	1500	150	0	1500	1500
SC-PRM	A2	mm	700	700	)	700	70	0 7	700	700	700	)	700	700
SC-PRM	B1	mm	1200	120	0	1200	120	0 1	200	1200	120	0	1200	1200
SC-PRM	B2	mm	2250	225	0 :	2250	225	0 2	250	2250	225	0 2	2250	2250
SC-PRM	Operating weight	kg	1893	200	0	2116	257	6 2	763	2938	339	6	3563	3684
Size	▶► WSAI	N-YSC4	80.3	90.4	100.4	110.4	120.4	130.4	145.4	160.4	185.5	210.	6 225.6	240.6
SC-EXC	A - Length	mm	3118	4114	4114	4114	4114	5091	5091	5091	6066	606	6 7045	7045
SC-EXC	B - Width	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	225	0 2250	
SC-EXC	C - Height	mm	2520		2520	2520				2520	2520			
SC-EXC	A1	mm	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	
SC-EXC	Operating weight	kg	2300	2631	2652	2772	2890	3295	3438	3594	4097	4199	4761	4861
Size	▶► WSAI	N-YSC4	90.3	100.3	110.4	4 120	0.4 13	0.4 14	15.4 16	0.4 1	85.5	210.6	225.6	240.6
SC-PRM	A - Length	mm	3118	3118	3118	31	18 4	114 4	1114 4	114 5	5091	5091	6066	6066
SC-PRM	B - Width	mm	2250	2250	2250	22	50 22	250 2	250 2	250 2	250	2250	2250	2250
SC-PRM	C - Height	mm	2520	2520	2520	25	20 2	520 2	520 2	520 2	520	2520	2520	2520
SC-PRM	A1	mm	1500	1500	1500	150	00 15	00 1	500 1	500 1	500	1500	1500	1500
SC-PRM	A2	mm	700	700	700	70	00 7	00	700 7	00	700	700	700	700

#### NEW PRODUCT



# 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 0
- 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

#### functions and features





















Air cooled

rotary

Scroll

valve

EVO

## 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:

Total energy recovery (Standard)

#### STRUCTURAL CONFIGURATION:

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

#### **EVAPORATOR**

Plate heat exchanger (Standard) Shell and tube evaporator PED test

#### ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)

ΕN Super-silenced acoustic configuration

#### accessories

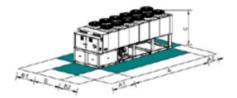
CCCA	Copper / aluminium condenser coil with acrylic lining	DML0-10	Demand limit with 0-10 V
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment	ECS	ECOSHARE function for the automatic management of a group of units
IVFCDT	Inverter driven variable flow-rate user side control depending on the	RPRI	Refrigerant leak detector in the casing
	temperature differential	SFSTR	Disposal for inrush current reduction
<b>IVFHDT</b>	Variable flow rate control heating side by inverter according to the	PFCC	Power factor correction capacitors (cosfi > 0.95)
	temperature differential	SPC1	Set-point compensation with 4-20 mA
<b>IVFCDTS</b>	Variable flow control heating side by inverter according to the temperature	SCP4	Set-point compensation with 0-10 V
	differential with pressure drop sensor	PSX	Mains power supply
IVFHDTS	Variable flow control heating side by inverter according to the temperature	<b>AMMX</b>	Rubber antivibration mounts
	differential with pressure drop sensor	<b>AMMSX</b>	Anti-seismic spring antivibration mounts
IVFCDTF	Variable flow rate control cooling side by inverter according to the	PGFC	Finned coil protection grill
	temperature differential with a flow meter	<b>PGCCH</b>	Anti-hail protection grilles
IVFHDTF		<b>PSWSA</b>	Differential pressure switch water side with antifreeze protection
	differential with pressure drop sensor	2PMCS	Hydropack cooling side with 2 on-off pumps
PFGP	Soundproofing paneling of the pumping unit	2PMCS2\	Hydropack on cold user side with 2 pumps and 2 inverters
IVFDT	Inverter driven variable flow-rate user side control depending on the		Hydropack cooling side with 1+1 on-off pump
	temperature differential	1+1PMCS	VHydropack cooling side with 1 + 1 inverter pump
CSVX	Couple of manually operated shut-off valves		Hydropack heating side with 2 on-off pumps
IFWX	Steel mesh strainer on the water side	2PMMS2	VHydropack on hot user side with 2 pumps and 2 inverters
CMSC10	Serial communication module for LonWorks supervisor		Hydropack heating side with 1+1 on-off pump
CMSC9	Serial communication module for Modbus supervisor		V Hydropack heating side with 1 + 1 inverter pump
CMSC11	Serial communication module for BACnet-IP supervisor	<b>FMCHX</b>	Cooling and heating side flow meters
RCMRX	Remote control via microprocessor control	RDVS	Switching valve with dual safety valves
CONTA3	M-bus total electricity meter	MISTER1	3
CONTA4	Total electricity meters and m-bus pump group		temperature differential
RE-25	Electrical panel antifreeze protection for min. outdoor temperature down	MISTER2	Direct energy meter by flow rate and temperature differential with unit
	to -25°C		probes (available only with options: FMCHX)
DML4-20	Demand limit with 4-20 mA		

#### 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 Cooling 100% - Heating 0% Cooling capacity (EN 14511:2022) SC-EXC 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 4,74 4,80 4,88 4,91 4,94 SC-EXC (4)4,82 4,70 4,61 4,82 4,68 4,65 4,94 SC-EXC % 190.0 185.0 182.0 187.0 189.0 190.0 184,0 183.0 192,0 193.0 195.0 195.0 $\eta_{s,c}$ (4)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 71,8 80,1 89,3 97,5 106 115 128 140 172 182 199 213 Total power input (EN 14511:2022) (2)kW COP (EN 14511:2022) 3,25 SC-EXC 3,22 3,23 3,19 3,25 3,31 3,27 3,27 3,31 3,23 3,29 3,26 (2) Cooling 100% - Heating 1009 Cooling capacity (EN 14511:2022) SC-EXC (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) 67,0 76,6 86,0 95,1 103 111 125 135 168 179 192 207 SC-EXC TER (EN 14511:2022) 7,58 7,53 7,50 7,61 7,69 7,70 7,67 7,86 7,60 7,69 7,66 7,63 (4)SC-EXC Refrigeration circuits Nr SC-EXC No. of compressors Nr 4 6 SC-EXC SCROLL Type of compressors SC-EXC R-32 Refrigerant ٧ SC-EXC Standard power supply 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 3.93 (6)152,0 153,0 151,0 154,0 157,0 153,0 155,0 154,0 $\eta_{S,H}$

## 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