

new generation

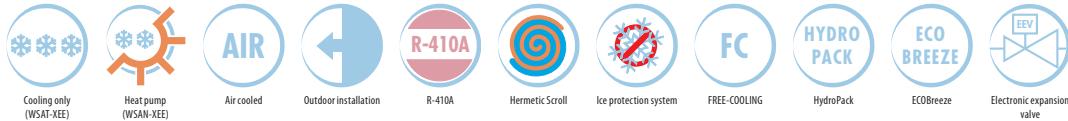
Water chiller

WSAT-XEE: cooling only
 WSAN-XEE: reversible heat pump
 Air cooled
 Outdoor installation
Capacity from 90 to 216 kW

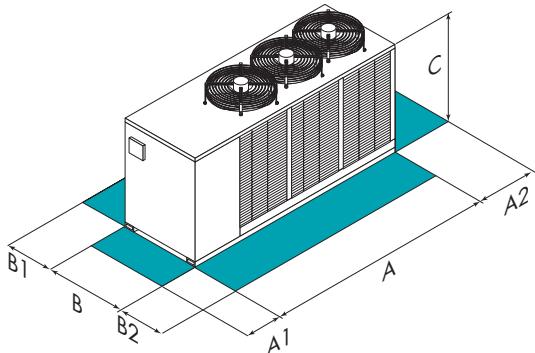


Unit listed on
www.eurovent-certification.com

functions and features



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 - WSAT-XEE		352	402	432	452	502	552	602	702	802
SC-EXC	A - Length	mm	3075	3075	3075	4025	4025	4025	4025	5025
SC-EXC	B - Width	mm	1097	1097	1097	1097	1097	1097	1097	1097
SC-EXC	C - Height	mm	1805	1805	1805	1805	1805	1805	1805	1805
SC-EXC	A1	mm	1000	1000	1000	1000	1000	1000	1000	1000
SC-EXC	A2	mm	700	700	700	700	700	700	700	700
SC-EXC	B1	mm	1350	1350	1350	1350	1350	1350	1350	1350
SC-EXC	B2	mm	1350	1350	1350	1350	1350	1350	1350	1350
SC-EXC	Operating weight	kg	896	933	1024	1207	1234	1256	1302	1497
SC-PRM	Operating weight	kg	778	802	892	924	963	984	1087	1295

Size - WSAN-XEE		352	402	432	452	502	552	602	702	802
A - Length	mm	3075	3075	3075	3075	3075	4025	4025	4025	5025
B - Width	mm	1097	1097	1097	1097	1097	1097	1097	1097	1097
C - Height	mm	1805	1805	1805	1805	1805	1805	1805	1805	1805
A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000
A2	mm	700	700	700	700	700	700	700	700	700
B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350
B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC	Operating weight	kg	915	975	1059	1101	1126	1326	1341	1549
EN	Operating weight	kg	915	975	1059	1101	1126	1326	1341	1564

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
 SC Compressors soundproofing (SC)
 EN Extremely low noise (EN)

versions and configurations

LOW TEMPERATURE:

- - Low temperature: not required (Standard)
- **B** Water low temperature

ENERGY RECOVERY:

- - Energy recovery: not required (Standard)
- **D** Partial energy recovery
- **R** Total energy recovery

ACOUSTIC CONFIGURATION:

- **SC** Acoustic configuration with compressor soundproofing (Standard)
- **EN** Extremely low noise acoustic configuration

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

- **CREFB** Device for consumption reduction of the external section ECOBREEZE fans (Standard)
- **CREFP** Device for consumption reduction of the external section at variable speed (phase-cutting)

DOUBLE SET POINT:

- - Double set point: not required (Standard)
- **DSP** Double set point
- **DSPB** Double set point for water low temperature

VERSION (WSAT-XEE ONLY):

- **EXC** Excellence (Standard)
- **PRM** Premium

FREE-COOLING (WSAT-XEE ONLY):

- - FREE-COOLING: not required (Standard)
- **FCD** Direct FREE-COOLING

technical data

Size - WSAT-XEE	352	402	432	452	502	552	602	702	802
SC-EXC ▶ Cooling capacity (EN14511:2011) (1) kW	95,6	109	120	129	140	152	174	195	216
SC-EXC Total power input (EN14511:2011) (1) kW	30,6	34,8	38,8	40,9	45,0	49,0	55,8	62,3	69,6
SC-EXC EER (EN 14511:2011) (1) -	3,12	3,13	3,10	3,15	3,12	3,10	3,12	3,13	3,11
SC-EXC ESEER (1) -	4,22	4,30	4,22	4,21	4,24	4,10	4,26	4,16	4,32
SC-PRM Cooling capacity (EN14511:2011) (1) kW	89,7	101	111	119	130	143	159	185	203
SC-PRM Total power input (EN14511:2011) (1) kW	32,6	37,7	42,0	44,2	48,0	53,2	61,0	66,9	75,9
SC-PRM EER (EN 14511:2011) (1) -	2,75	2,67	2,64	2,70	2,71	2,69	2,61	2,76	2,67
SC-PRM ESEER (1) -	3,91	3,95	3,90	4,03	4,02	3,99	3,90	3,99	3,79
SC-EXC Sound pressure level (2) dB(A)	67	67	68	68	68	69	69	70	70
SC-PRM Sound pressure level (2) dB(A)	67	67	67	67	68	68	68	69	69
Refrigerant circuits	Nr	1	1	1	1	1	1	1	1
No. of compressors	Nr	2	2	2	2	2	2	2	2
Type of compressors	-	SCROLL							
Standard power supply	V	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50

Size - WSAN-XEE	352	402	432	452	502	552	602	702	802
SC ▶ Cooling capacity (EN14511:2011) (1) kW	84,4	96,7	105	114	122	140	156	183	202
SC Total power input (EN14511:2011) (1) kW	32,7	36,5	41,3	43,6	48,5	51,3	60,8	66,9	76,5
SC EER (EN 14511:2011) (1) -	2,58	2,65	2,55	2,61	2,52	2,73	2,56	2,73	2,64
SC ESEER (1) -	3,43	3,56	3,54	3,54	3,56	3,49	3,40	3,35	3,31
SC ▶ Heating capacity (EN14511:2011) (3) kW	100	116	127	136	147	165	183	212	234
SC Total power input (EN14511:2011) (3) kW	32,6	36,7	40,4	42,1	45,8	51,0	57,1	65,3	72,6
SC COP (EN 14511:2011) (3) -	3,08	3,16	3,14	3,23	3,20	3,24	3,21	3,25	3,23
SC Refrigerant circuits	Nr	1	1	1	1	1	1	1	1
SC No. of compressors	Nr	2	2	2	2	2	2	2	2
SC Type of compressors	-	SCROLL							
SC Standard power supply	V	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
SC Sound pressure level (2) dB(A)	67	67	67	67	67	68	68	71	71
EN Sound pressure level (2) dB(A)	62	63	64	64	64	65	65	66	66

Notes

- (1) Data calculated in compliance with Standard EN 14511:2011 referred to the following conditions:
Internal exchanger water temperature = 12/7°C; External exchanger air temperature = 35°C
(2) The sound levels refer to the unit at full load, in the rated test conditions.
The sound pressure level refers to a distance of 1m from the external surface of the units operating in an open field. Measures according to UNI EN ISO 9614-2 regulations, with respect to the EUROVENT 8/1 certification. Data referred to the following conditions: Internal exchanger water = 12/7°C; Outdoor air temperature 35°C

- (3) Data calculated in compliance with Standard EN 14511:2011 referred to the following conditions:
Internal exchanger water temperature = 40/45°C. External exchanger air temperature 7 D.B./6 °C W.B.

SC-EXC Compressors soundproofing (SC)-Excellence

SC-PRM Compressors soundproofing (SC)-Premium

SC Compressors soundproofing (SC)

EN Extremely low noise (EN)



accessories

- **1PUS** Standard pump
- **1PU1SB** Standard pump with emergency pump
- **2PM** Hydropack with 2 pumps
- **IFWX** Water steel mesh strainer
- **A300** 300-litre storage tank (sizes 352÷602)
- **A300RPS** 300-litre storage tank with primary circuit onboard (sizes 352÷602)
- **A500** 500-litre storage tank (sizes 702÷802)
- **A500RPS** 500-litre storage tank with primary circuit onboard (sizes 702÷802)
- **ABU** Flush hydraulic connections
- **CCA** Copper / aluminium condenser coil with acrylic lining
- **CCCA1** Copper / aluminium condenser coil with Energy Guard DCC Aluminum
- **AMMX** Spring antivibration mounts
- **PGCCH** Anti-hail protection grilles
- **PGFC** Finned coil protection grill
- **PSX** Mains power supply
- **CONTA2** Energy meter
- **RCMRX** Remote control via microprocessor control
- **CMSC8** Serial communication module to BACnet supervisor
- **CMSC10** Serial communication module to LonWorks supervisor
- **CMSC9** Serial communication module to MODBUS supervisor
- **SCP4** Compensation of set point with signal 0-10 V
- **SPC2** Set point compensation with outside temperature probe
- **ECS** ECOSHARE function for the automatic management of a group of units
- **PFCP** Power factor correction capacitors ($\cos\phi > 0.9$)

- **SFSTR** Disposal for inrush current reduction
- **MHP** High and low pressure gauges
- **AEG1** Antifreeze protection with 10% ethylene glycol
- **AEG2** Antifreeze protection with 20% ethylene glycol
- **AEG3** Antifreeze protection with 30% ethylene glycol
- **AEG4** Antifreeze protection with 40% ethylene glycol
- **AEG5** Antifreeze protection with 50% ethylene glycol
- WSAT-XEE only:**
- **CCCAG** Copper / aluminium condenser coil with gray acrylic lining (sizes 802)
- **MF2** Multi-function phase monitor
- **DML** Demand limit
- **RE-20** Electrical panel antifreeze protection for min. outdoor temperature down to -20°C
- **RE-25** Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
- **RE-30** Electrical panel antifreeze protection for min. outdoor temperature down to -30°C
- **RE-35** Electrical panel antifreeze protection for min. outdoor temperature down to -35°C
- **RE-39** Electrical panel antifreeze protection for min. outdoor temperature down to -39°C
- **FANQE** Electrical panel ventilation
- **SDV** Compressor discharge and suction shut-off valve
- WSAN-XEE only:**
- **PM** Phase monitor
- **OHE** Limit extension kit in heating up to -10°C (W.B.)

Key to symbols and notes

■ Accessories supplied separately.

For compatibility between the various accessories, please refer to the dedicated Technical Bulletin or our website in the Systems and Products section.

