

### Water chiller

Air cooled

Indoor installation

Capacity from 115 to 295 kW

## SPINchiller<sup>2</sup> Duct



The chillers of **WSA-XSC2** series are indoor units with ducted condensation. They feature uneven Scroll compressors mounted in the same circuit, electronic expansion valves and high efficiency plate type evaporators. Thanks to his special design **SPINchiller<sup>2</sup> Duct** main features are:

- **Versatility:** different combinations of inlet and outlet plug fans enable to connect easily the unit to the air ducts and to have high available head;
- **High energy efficiency:** SPINchiller<sup>2</sup> Duct, besides being in Eurovent efficiency class A at full load, grants high seasonal power efficiency thanks to the innovative cooling circuit optimized for partial load operation and the DST (Dynamic Supply Temperature) return control logic;
- **Easy installation:** the units are very compact and are supplied on request with pumps on board; therefore the available space for other purposes is increased and the installations costs are reduced.



### functions and features



Cooling only



Air cooled



Indoor installation



R-410A



Hermetic Scroll

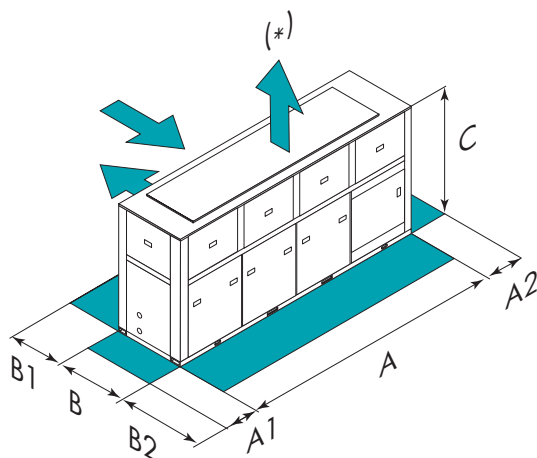


Electronically commutated Plug Fan



Electronic expansion valve

### dimensions and clearances



Size - WSA-XSC2		432	452	552	602	702	80D	90D	100D	110D
A - Length	mm	3312	3312	3312	3312	4400	4400	5486	5486	5486
B - Width	mm	1151	1151	1151	1151	1151	1151	1151	1151	1151
C - Height	mm	2326	2326	2326	2326	2326	2326	2326	2326	2326
A1	mm	900	900	900	900	900	900	900	900	900
A2	mm	900	900	900	900	900	900	900	900	900
B1	mm	1300	1300	1300	1300	1300	1300	1300	1300	1300
B2	mm	1300	1300	1300	1300	1300	1300	1300	1300	1300
Operating weight	kg	1430	1384	1507	1573	1861	1994	2369	2561	2695

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.

B1 = Clearance depending on the type of installation.

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

(\*) Optional

## 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 (sizes 702÷110D)

### CONFIGURATION:

- **EV** Vertical air expulsion (Standard)
- **EO** Horizontal exhaust air

## technical data

Size – WSA-XSC2			432	452	552	602	702	80D	90D	100D	110D
▶ Cooling capacity (EN14511:2013)	(1)	kW	115	123	147	164	184	205	239	268	295
Total power input (EN14511:2013)	(1)	kW	41,8	45,1	54,1	59,9	67,9	75,5	87,9	98,0	108
EER (EN 14511:2013)	(1)	-	2,76	2,73	2,72	2,74	2,71	2,71	2,72	2,73	2,73
SEER	(4)	-	3,83	3,82	3,81	3,80	3,82	3,85	3,86	3,83	3,80
Refrigeration circuits		Nr	1					2			
No. of compressors		Nr	2					4			
Type of compressors	(2)	-	SCROLL								
Standard airflow		l/s	12333	12333	12333	12333	16444	16444	20556	20556	21389
Standard power supply		V	400/3/50								
Sound power in the duct	(3)	dB(A)	92	92	92	92	93	93	95	95	96

### Notes

- (1) Data compliant to Standard EN 14511:2013 referred to the following conditions: - Internal exchanger water temperature = 12/7°C - Entering external exchanger air temperature = 35°C
- (2) SCROLL = scroll compressor
- (3) Sound power measured in accordance with UNI EN ISO 9614 and Eurovent 8/1 standards for ducted unit with available pressure equal to 120 Pa.

- (4) Data calculated according to the EN 14825:2016 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

## accessories

- **1PUS** Standard pump
- **2PM** Hydropack load side with 2 pumps
- **3PM** Hydropack load side with 3 pumps
- **IFWX** Steel mesh strainer on the water side
- **CSVX** Couple of manually operated shut-off valves
- **ABU** Flush hydraulic connections
- **CCCA** Copper / aluminium condenser coil with acrylic lining
- **CCCA1** Condenser coil with Aluminium Energy Guard DCC treatment
- **AMMX** Spring antivibration mounts
- **PGFC** Finned coil protection grill
- **MF2** Multi-function phase monitor
- **CONTA2** Energy meter
- **RCMRX** Remote control via microprocessor control
- **PSX** Mains power supply
- **CMSC8** Serial communication module for BACnet supervisor
- **CMSC10** Serial communication module for LonWorks supervisor
- **CMSC9** Serial communication module for Modbus supervisor
- **SCP4** Set-point compensation with 0-10 V signal
- **SPC2** Set-point compensation with outdoor air temperature probe
- **ECS** ECOSHARE function for the automatic management of a group of units
- **PFCP** Power factor correction capacitors (cosφ > 0.9)
- **SFSTR** Disposal for inrush current reduction
- **FANQE** Electrical panel ventilation
- **MHP** High and low pressure gauges
- **SDV** Cutoff valve on compressor supply and return

### Key to symbols and notes

- Accessories separately supplied

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