

Water chiller

WSA-XSC2: cooling only

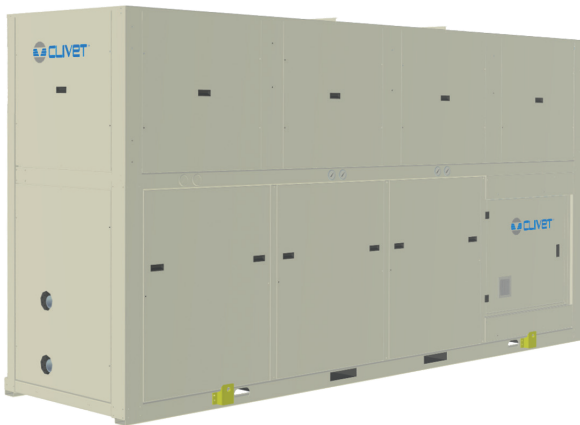
Air cooled

Indoor installation

Capacity from 115 to 318 kW

SPINchiller² Duct

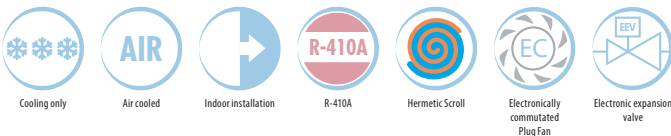
HYDRONIC



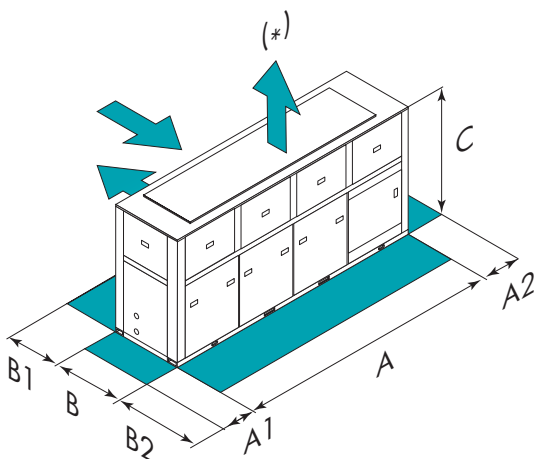
The chillers of **WSA-XSC2** series are indoor units with ducted condensation. They feature uneven Scroll compressors mounted in the same circuit, electronic expansion valves and high efficiency plate type evaporators. Thanks to his special design **SPINchiller² Duct** main features are:

- ▶ **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:** SPINchiller² 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



dimensions and clearances



Size – WSA-XSC2		432	452	552	602	702	80D	90D	100D	110D	120D
A - Length	mm	3312	3312	3312	3312	4400	4400	5486	5486	5486	5486
B - Width	mm	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151
C - Height	mm	2312	2312	2312	2312	2312	2312	2312	2312	2312	2312
A1	mm	900	900	900	900	900	900	900	900	900	900
A2	mm	900	900	900	900	900	900	900	900	900	900
B1	mm	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
B2	mm	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
Operating weight	kg	1430	1384	1507	1573	1861	1994	2369	2561	2695	2737

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÷120D)

CONFIGURATION:

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

technical data

Size – WSA-XSC2			432	452	552	602	702	80D	90D	100D	110D	120D
▶ Cooling capacity (EN14511:2013)	(1)	kW	115	122	147	166	184	199	238	268	295	318
Total power input (EN14511:2013)	(1)	kW	41,6	45,0	54,1	61,4	66,6	72,6	87,7	99,0	109	126
EER (EN 14511:2013)	(1)	-	2,77	2,72	2,71	2,71	2,76	2,75	2,71	2,71	2,70	2,52
ESEER	-	-	4,24	4,13	4,07	4,11	4,26	4,41	4,18	4,15	4,16	3,92
Refrigeration circuits		Nr	1	1	1	1	1	2	2	2	2	2
No. of compressors		Nr	2	2	2	2	2	4	4	4	4	4
Type of compressors	(2)	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
Standard airflow		l/s	12333	12333	12333	12333	16444	16444	20556	20556	21389	22222
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	400/3/50	400/3/50
Sound power in the duct	(3)	dB(A)	92	92	92	92	93	93	95	95	96	97

Notes

(1) Data calculated in compliance with 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.

accessories

- ▶ **1PUS** Standard pump
- ▶ **2PM** Hydropack with 2 pumps
- ▶ **3PM** Hydropack with 3 pumps (sizes 90D÷120D)
- **IFWX** Steel mesh strainer on the water side
- **CSVX** Couple of manual shut-off valves
- ▶ **ABU** Flush hydraulic connections
- ▶ **CCCA** Copper / aluminium condenser coil with acrylic lining
- ▶ **CCCA1** Condenser coil with Energy Guard DCC Aluminium
- **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 to BACnet supervisor
- ▶ **CMSC10** Serial communication module to LonWorks supervisor
- ▶ **CMSC9** Serial communication module to Modbus supervisor
- ▶ **SCP4** Set-point compensation with signal 0-10 V
- ▶ **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 (cosfi > 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
- ▶ **DSP** Double set point

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.