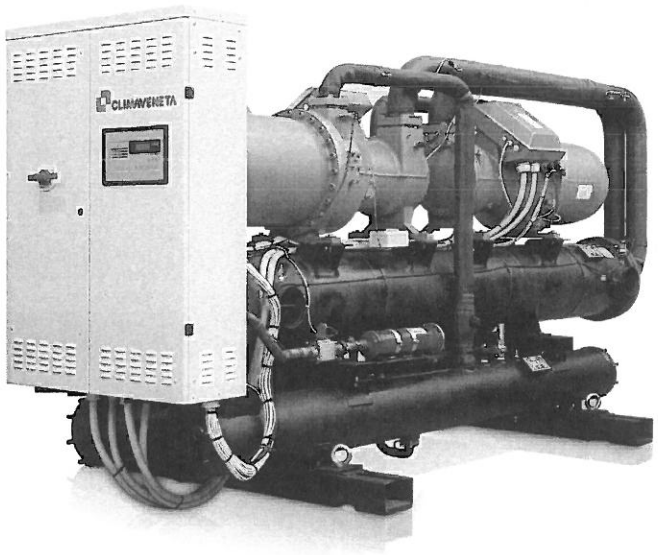
FOCS-W-CA 1301÷6002



Water-cooled "high energy efficiency" liquid chillers
333 - 1473 kW

Unit Description

Indoor unit for the production of chilled water with semi-hermetic screw compressors optimized for R134a, electronic expansion valve, shell and tube condenser and evaporator.
Base and supporting structure and panels are of galvanized epoxy powder coated steel with increased thickness.
Flexible and reliable unit; it easily adapts itself to different thermal load conditions thanks to the precise thermoregulation. The high performance's level is achieved thanks to the accurate sizing of all internal components.

Versions

B Standard unit

Configurations

FOCS-W-CA
Standard unit for the production of chilled water
FOCS-W-CA-H
Unit for the production of chilled water, reversible in heat pump on the hydraulic side

Features

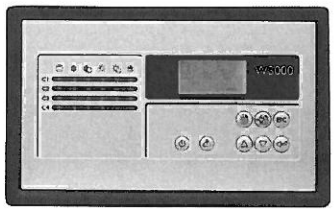
HIGH EFFICIENCY
High efficiency (class A for Eurovent) thanks to the adopted technological solution. The generous sizing of the exchange's surfaces allows an higher heat exchange's efficiency and consequently a lower absorbed power.
ADAPTABILITY
Adaptability at the building's cooling request thanks to the continuous capacity regulation, assured by sophisticated control's logic
SILENT OPERATION
Silent operation thanks to the accurate unit's design. Optional integral acoustic enclosure, further reduces the sound level beyond the best on market
HEAT PUMP OPTION
Option of heat pump operation with water circuit side reversal

Main accessories

- Integral acoustical enclosure (type base or plus)
- Pressostatic control valve
- Remote keyboard
- Set-up for remote connectivity with ModBus, Echelon LonTalk, Trend, Bacnet protocol board.

Commands

W3000 large
The controller W3000 large offers the latest control and functions developed directly by Climaveneta on the basis of their experience gained over the years with the particular units and services engineering solutions. The keypad is generously sized with full operating status display. The controls and detailed LCD make access to machine settings easy and safe. Temperature regulation features the continuous modulation of the capacity based on the leaving water temperature; as alternatives, step-wise proportional- or proportional-integral logics are available. The diagnostics includes full management of alarms with black-box functions and alarm record for better analysis of unit performance. Supervision is easy through Climaveneta devices or with various options for interfacing to ModBus, Bacnet, Echelon LonTalk protocols. Compatibility with remote keyboard (management up to 10 units). Clock available with programming of operation (standard 4 days and 10 time bands). For the /H units, the regulation allows the water-side mode changeover, with relevant resources enabled.



FOCS-W-CA version B

Models		1301	1401	1601	1801	2101	2401	2701	3001
COOLING ONLY									
Cooling capacity(1)	kW	333	375	438	506	568	623	716	767
Total power input(1)	kW	65,7	74,2	86,6	99,9	112	123	142	152
Condernser heating capacity(1)		398	450	525	606	681	746	858	918
EER		5,06	5,06	5,06	5,07	5,06	5,06	5,06	5,06
ESEER		5,80	5,96	5,92	5,98	5,96	5,97	5,95	5,97
HEATING ONLY (only -H)									
Heating capacity(2)	kW	370	421	489	570	639	702	805	864
Total power input(2)	kW	77,2	88,5	103	122	135	149	170	183
COP		4,80	4,76	4,73	4,67	4,73	4,71	4,73	4,71
COMPRESSORS									
No. Compressors/No. Circuits	N.	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
NOISE LEVELS									
Sound power(3)	dB(A)	97	97	97	97	97	97	99	99
Sound pressure(4)	dB(A)	*	*	*	*	*	*	*	*
SIZE									
A(5)	mm	4300	4300	4050	4000	4000	4300	4350	4350
B(5)	mm	1300	1300	1380	1380	1320	1320	1400	1400
H(5)	mm	1770	1770	1910	1910	1910	1910	1990	1990
Operating weight(5)	kg	*	*	*	*	*	*	*	*

Modelli		2802	3202	3602	4202	4802	5402	6002
COOLING ONLY								
Cooling capacity(1)	kW	751	877	1012	1136	1246	1387	1473
Total power input(1)	kW	148	173	200	225	246	275	292
Condernser heating capacity(1)		899	1050	1212	1361	1493	1661	1764
EER		5,06	5,06	5,07	5,06	5,06	5,05	5,05
ESEER		6,02	5,94	6,02	5,98	6,06	5,97	6,01
HEATING ONLY (only -H)								
Heating capacity(2)	kW	842	978	1140	1277	1404	1562	1663
Total power input(2)	kW	177	207	244	270	298	330	352
COP		4,76	4,73	4,67	4,73	4,71	4,73	4,72
COMPRESSORS								
No. Compressors/No. Circuits	N.	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
NOISE LEVELS								
Sound power(3)	dB(A)	99	99	99	99	99	101	101
Sound pressure(4)	dB(A)	*	*	*	*	*	*	*
SIZE								
A(5)	mm	4600	4950	5200	4920	4920	5220	5220
B(5)	mm	1260	1260	1260	1380	1380	1380	1380
H(5)	mm	2195	2195	2195	2310	2310	2310	2310
Operating weight(5)	kg	*	*	*	*	*	*	*

Note:

1 Evaporator water (in/out) 12/7°C, condenser water (in/out) 30/35°C, based on Eurovent Standard
2 Evaporator water (in/out): 12/7°C; Condenser water (in/out): 40/45°C.
3 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.
4 Sound pressure in open field conditions on reflecting surface (directivity factor Q=2), average value on longest side, at 1 m from the outer surface and at 1 m height in relation to the unit supporting base.
5 Unit in standard configuration/execution, without optional accessories
* Please contact our sales department

Minimum clearance required

		1301 - 6002
Switchboard side	mm	*
Cooler water connections side (minimum)	mm	*
Condenser water connections side	mm	*