FOCS-W 0401÷1902

Versions

B Standard unit

Configurations

FOCS-W
Standard unit for the production of chilled water
FOCS-W-D
Unit for the production of chilled water, complete with desuperheater for partial recovery of condensation heat
FOCS-W-H
Unit for the production of chilled water, reversible in heat pump on the hydraulic side
FOCS-W-R
Unit for the production of chilled water, complete with section for total recovery of condensation heat

Features

FLEXIBILITY
Flexibility in applications thanks to the many available functions and versions
ADAPTABILITY
Adaptability at the building's cooling request thanks to the continuous capacity regulation, assured by sophisticated control's logic
HEAT PUMP OPTION
Option of heat pump operation with water circuit side reversal

Water-cooled liquid chillers and water-to-water heat pumps
87,0 - 447 kW

Unit Description

Indoor unit for the production of chilled water with semi-hermetic screw compressors optimized for R134a, thermostatic 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.

Main accessories

- Compressor power factor device
- Electronic expansion valve
- Pressostatic control valve
- Remote keyboard (distance to 200m and to 500m)
- Set-up for remote connectivity with ModBus, Echelon LonTalk, Bacnet protocol board

Commands

W3000 large

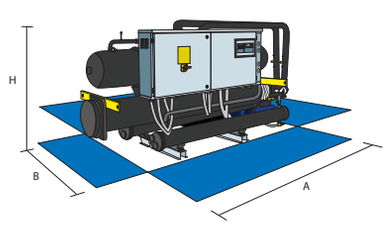
The controller W3000 large offers the latest control and functions developed directly by Climaveneta on the basis of their experience gained over the years with the particular units and services engineering solutions. The keypad is generously sized with full operating status display. The controls and 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 version B

Models		0401	0501	0551	0651	0751	0802	0851	0951	1002	1102	1302	1502	1702	1902
COOLING ONLY															
Cooling capacity(1)	kW	87	107	130	147	165	178	198	221	217	251	298	340	393	447
Total power input(1)	kW	19,6	24,6	28,1	32,6	37	39,4	42,8	49,6	49,2	55,9	65,6	74,4	85,4	99,6
Condernser heating capacity(1)		107	132	158	180	202	217	241	271	266	307	364	414	478	547
EER		4,44	4,35	4,63	4,51	4,46	4,52	4,63	4,46	4,41	4,49	4,54	4,57	4,60	4,49
ESEER		5,15	5,32	5,25	5,29	5,40	5,39	5,54	5,42	5,52	5,24	5,49	5,67	5,70	5,61
COOLING WITH PARTIAL RECOVERY (only -D)															
Cooling capacity(2)	kW	90,2	111	135	153	171	184	205	221	217	251	298	340	393	447
Total power input(2)	kW	18,9	23,6	27,1	31,6	35,6	38	41,2	49,6	49,2	55,8	65,6	74,5	85,4	99,5
Desuperheater heating capacity(2)	kW	8,50	10,6	12,1	14,1	15,9	17	18,5	21,4	21,3	24,1	28,3	32,2	36,9	43
COOLING WITH TOTAL RECOVERY (only -R)															
Cooling capacity(3)	kW	77,4	95,2	116	131	147	158	175	197	194	223	265	304	348	397
Total power input(3)	kW	23,5	29,2	34,2	39,2	44	47,1	51,2	59,1	58,7	67,9	78,6	88,6	102	118
Heat recovery capacity(3)	kW	99,5	123	148	168	188	189	202	252	249	287	339	387	445	509
HEATING ONLY (only -H)															
Heating capacity(4)	kW	95,7	118	142	162	181	194	215	243	239	276	326	372	428	489
Total power input(4)	kW	23,2	28,9	33,8	38,9	43,4	46,6	50,7	58,4	58	67,2	77,8	87,5	101	116
COP		4,13	4,09	4,20	4,16	4,17	4,16	4,24	4,16	4,12	4,11	4,19	4,25	4,23	4,18
COMPRESSORS															
No. Compressors/No. Circuits	N.	1/1	1/1	1/1	1/1	1/1	2/2	1/1	1/1	2/2	2/2	2/2	2/2	2/2	2/2
NOISE LEVELS															
Sound power(5)	dB(A)	91	92	94	94	94	94	94	94	95	97	97	97	97	97
Sound pressure(6)	dB(A)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIZE															
A(7)	mm	2300	2500	2500	2500	2500	3200	3200	3200	3200	3200	3500	3500	3500	3500
B(7)	mm	1000	1000	1000	1000	1000	1500	1500	1500	1500	1500	1200	1200	1200	1200
H(7)	mm	1500	1500	1500	1500	1500	1200	1200	1200	1200	1200	1800	1800	1800	1800
Operating weight(7)	kg	800	840	1160	1180	1190	1470	1270	1350	1490	1930	2220	2260	2320	2720

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): 30/35°C; Desuperheater water (in/out): 40/45°C.
3 Evaporator water (in/out): 12/7°C; Recovery unit water (in/out): 40/45°C
4 Evaporator water (in/out): 12/7°C; Condenser water (in/out): 40/45°C.
5 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.
6 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.
7 Unit in standard configuration/execution, without optional accessories
* Please contact our sales department

Minimum clearance required

		0401 - 1902
Switchboard side	mm	650
Cooler water connections side (minimum)	mm	450
Condenser water connections side	mm	900
Condenser water fittings opposite side (minimum)	mm	600