CLIMMA Fresh Water Circuit - Product details and technical specifications

FRESH WATER CIRCUIT COMPONENTS

- Fresh water pump
- Automatic air bleeder
- Expansion tank
- Fancoil manifolds and fancoil hoses
- Gauge manifold
- Optional fancoil water valve

FRESH WATER PUMP

To select the fresh water pump for the system, select the pump based on the total fancoils' capacity (not the chiller capacity). The minimum flow is 10 lt/m (2,6 GPM) every TON (12.000 Btu/h) of installed fancoil capacity.

	Fancoil new total	Veco Part nr.	Pump Model	kW	Nominal flow rate		Pump Head		Climma steel support	Connections	Inlet connection	Outlet connection	Weight	
					[lt/min]	[GPM]	[Mt]	[Ft]					[Kg]	[Lb]
230/1/50	**36.000**	VPF0030UI*N	NMM 1/AE	**0,37**	30	8	21	69	Yes	fittings	1' F BSP	1' F BSP	9	19
	60.000	VPF0050UI*N	NMM 2/S/A	**0,55**	50	13	26	84	Yes	fittings	1' F BSP	1' F BSP	14	32
	120.000	VPF0100UI*N	NMM 2/A/A	**0,75**	100	26	24	79	Yes	fittings	1' F BSP	1' F BSP	15	33
	192.000	VPF0160UI*N	NMM 10/AE	**1,1**	160	42	22	72	No	fittings	2' F BSP	1-1/4' F BSP	21	47
	264.000	VPF0220UI*N	NMM 11/BE	**1,5**	220	58	22	72	No	fittings	2' F BSP	1-1/4' F BSP	26	57

	Fancoil new total	Veco Part nr.	Pump Model	kW	Nominal flow rate		Pump Head		Climma steel support	Connections	Inlet connection	Outlet connection	Weight	
					[lt/min]	[GPM]	[Mt]	[Ft]					[Kg]	[Lb]
400/3/50	**72.000**	VPF0060YI*N	NM 2/S/A	**0,55**	60	16	23,5	77	Yes	fittings	1' F BSP	1' F BSP	13	29
	120.000	VPF0100YI*N	NM 2/A/B	**0,75**	100	26	24	79	Yes	fittings	1' F BSP	1' F BSP	14	31
	192.000	VPF0160YI*N	NM 10/A/A	**1,1**	160	42	22	72	No	fittings	2' F BSP	1-1/4' F BSP	20	45
	264.000	VPF0220YI*N	NM 11/B/A	**1,5**	220	58	22	72	No	fittings	2' F BSP	1-1/4' F BSP	25	54
	378.000	VPF0315YG*N	NM 40/16C/C	**2,2**	315	83	22	72	No	flanges	DN 65	DN 40	39	85
	540.000	VPF0450YG*N	NM 40/16B/B	**3**	450	119	25	82	No	flanges	DN 65	DN 40	46	102
	780.000	VPF0650YG*N	NM 40/16A/C	**4**	650	172	26	85	No	flanges	DN 65	DN 40	46	102
	960.000	VPF0800YG*N	NM 50/16B/B	**5,5**	800	211	26	85	No	flanges	DN 65	DN 50	64	141
	1.440.000	VPF1200YG*N	NM 50/16A/B	**7,5**	1200	317	24	79	No	flanges	DN 65	DN 50	70	155

Other available power supply on request: 230/1/60, 230/1/50-60, 400/3/60, 230/3/60. * is for the color, see coding reference below.

AUTOMATIC AIR BLEEDER / DISAREATORE AUTOMATICO

Select the air bleeder model based on the total fancoil capacity.

Code	Description	up to:
M66795	Automatic air bleeder ¾"	36,000 Btu fancoil
M66660	Automatic air bleeder 1 "	96,000 Btu fancoil
M66665	Automatic air bleeder 1"1/4	250,000 Btu fancoil
M66670	Automatic air bleeder 1"1/2	400,000 Btu fancoil
M66796	Automatic air bleeder 2"	700,000 Btu fancoil

EXPANSION TANK / VASI D'ESPANSIONE

Select the expansion tank model based on the total fancoil capacity.

Code	Description	up to:
M3603A	Expansion tank 5 liters	36,000 Btu fancoil
M3603B	Expansion tank 8 liters	84,000 Btu fancoil
M3603C	Expansion tank 12 liters	150,000 Btu fancoil
M3603D	Expansion tank 18 liters	250,000 Btu fancoil
M3603E	Expansion tank 24 liters	400,000 Btu fancoil (2x up to 700,000 Btu)

FANCOIL MANIFOLDS / COLLETTORI FANCOIL

Select the fancoil manifold based on the number of fancoils in your circuit.

Code	Description
M62815	Fan Coil Manifold 1"x 2
M62820	Fan Coil Manifold 1"x 3
M62825	Fan Coil Manifold 1"x 4
M62830	Fan Coil Manifold 1"x 5
M62835	Fan Coil Manifold 1"x 6
M62775	Fan Coil Manifold 1"x 7
M62780	Fan Coil Manifold 1"x 8
M62840	Fan Coil Manifold 1"x 9
M62845	Fan Coil Manifold 1"x 10

PRESSURE GAUGE MANIFOLD / KIT MANOMETRO

The pressure gauge kit can be installed in the circuit to measure the fresh water circuit pressure and it includes the water valve to charge the circuit.

Code	Description
M65260	Gauge manifold for CWS

FANCOIL FLEXIBLE INSULATED HOSE / TUBO ISOLATO PER FANCOIL

Insulated flexible hose for the fresh water circuit. (all our fancoils have a 16mm nipple so the last hose to the fancoil must be a 16mm)

Code	Description	Insulation	Diameter	Outer diam.
M67575B	Flexible reinforced hose 16 mm	9mm	16mm	40mm
M67575C	Flexible reinforced hose 25 mm	9mm	25mm	50mm

FANCOIL WATER VALVES / VALVOLE ACQUA FANCOIL

Water valves can be added to each single fancoil in order to stop the fresh water from circulating in the fancoil. It is mandatory when the fancoil is EH (electrical heating) so that the chiller can be working in cool mode and the fancoil can heat closing the valve and using the electrical heater.

Code	Description	Power Suply
M76660	Water valve Johnson for Fan Coil FC – 4 ways	230/1/50-60 Hz
M76660J	Water valve Johnson for Fan Coil EV– 4 ways	230/1/50-60 Hz

FLOW SWITCHES / FLUSSOSTATI

Flow switch can be added in the fresh water circuit to control that the flow is enough and to prevent damages in the evaporator of the chiller.

Code	Description	Connections	Type	For pipes	Max pressure	Pressure drop	Power supply	Flow Regulation
M85055A	Kit flow switch in line 1'	2x 1"	F - 1"	3/4" to 2"	25 Bar	0.01 Bar	230V AC	n.a.
M77471	Kit flow switch with 1' connectio	1x 1"	M - 1"	1" to 8"	10 Bar		230V AC	manual

M77471

M85055A