



The series MCC of the air cooled water chillers and heating pumps has been designed for indoor installation, for residential and commercial applications, when duct connection is required.

The series MCC has been designed and developed with the 410 A refrigerant, in fact the unit reaches excellent level of energetic efficiency thanks to the optimization of the heat exchangers in the type of plates and the distribution of the refrigerant.

The logic of the PLUG&PLAY on the hydraulic side- already present (DNA) in all our water chillers models - here is going alongside with the PLUG&PLAY on the fans group : Auto - adaptive control of the air flow and the constant fan speed modulations (condensation control on pressure basis) reduces the installation costs and timing.

> **PLUG&PLAY ON AIR SIDE:**

Autoadaptive air flow depending on:

- pressure drop on air side
- inlet air temperature

All units comes with modulating continuous fan speed control that adjust the rpm of the motor depending on the air temperature and air pressure drop, using a cutting-phase device.

Air outlet can be vertical or horizontal (optional).

> **HYDRAULIC PLUG&PLAY**

3 different hydraulic kits are available to enable an easy installation of MCC units in the cooling and heating system:

- B version: standar unit with evaporator
- P version: unit with evaporator, pump and expansion vessel
- S version: unit with evaporator, pump, expansion vessel and water tank


> **SIMPLIFIED MAINTENANCE**

Centrifugal fans are directly coupled to the eletric motor without using pulley and belt system.

The compressor and technical compartment is completly separated from the fan compartment in order to perform check operation while the unit is operating .

Easily accessible electronic microprocessor control.

> **ELECTRONIC MICROPROCESSOR CONTRO PANEL**

Brand new technology, it allows the connection with ERGO 

Adjustable set-point thanks to an outdoor temperature probe (optional).

The range is madde of 10 models cooling only, cwith cooling capacities from 6 to 37 kW and 10 models heat pump operation with heating capacity from 6 to 41 kW.

To simplify the way of making the order, Galletti offers 3 different solutions of hydraulic kit built in the unit, for only cooling only and heating pumps units.

**WATER CHILLER**

basic unit (only evaporator)

unit with pump and expansion vessel

unit with buffer tank ,pump and expansion vessel

**MCC..CB**

**MCC..CP**

**MCC..CS**

**HEAT PUMP**

basic unit (only evaporator)

unit with pump and expansion vessel

unit with buffer tank ,pump and expansion vessel

**MCC..HB**

**MCC..HP**

**MCC..HS**



MCC - WATER CHILLERS RATED TECHNICAL DATA

MCC		06M	07M	09M	06	07	09	12	15	18	22	25	33	37	
Power supply	V-Hz	230-1-50						400-3-50							
<b>Cooling only models</b>															
Cooling capacity	kW	5,70	6,90	9,20	5,70	6,95	9,25	12,00	14,60	18,00	22,30	25,50	33,1	36,7	
Water flow	l/s	0,273	0,329	0,439	0,272	0,331	0,442	0,573	0,698	0,860	1,065	1,218	1,582	1,753	
Water pressure drop	kPa	4,1	4,4	36	4,1	4,5	36,4	38,8	56,4	38,3	45,4	47,8	40,9	38,4	
Pump available head	kPa	57	55,1	155,1	57,1	55	154,6	147,7	125,2	136	117,5	123,1	122,7	121	
Power input (CB)	kW	2,61	3,18	4,83	2,58	3,04	4,63	5,73	6,43	7,53	8,93	12,05	14,85	16,25	
EER cycle	W/W	3,02	2,82	3,16	3,09	3,01	3,41	3,14	3,24	3,27	3,21	3,08	3,04	2,99	
EER fan included (CB)	W/W	2,18	2,17	1,90	2,21	2,29	2,00	2,09	2,27	2,39	2,50	2,12	2,23	2,26	
Power input (CP-CS)	kW	2,75	3,32	5,20	2,72	3,18	5,00	6,10	6,80	7,90	9,30	12,60	15,4	16,8	
<b>Heat pump models</b>															
Heating capacity	kW	6,40	7,75	10,20	6,40	7,65	9,95	13,10	15,50	19,20	23,80	28,20	36,36	40,56	
Cooling capacity	kW	5,60	6,75	9,00	5,60	6,80	9,10	11,70	14,30	17,60	21,80	25,00	32,40	35,90	
Water flow (heating)	l/s	0,306	0,369	0,488	0,308	0,365	0,477	0,626	0,743	0,92	1,138	1,349	1,729	1,93	
Water pressure drop (heating)	kPa	5,1	5,4	42	5,1	5,4	42	46	63	44	51	58	48	46	
Pump available head (heating)	kPa	55,2	52,9	145,4	55	53,2	147,7	138,7	116,2	127,7	106,7	110,6	111,7	108,5	
Power input (HB)	kW	2,86	3,38	5,20	2,94	3,23	4,90	6,10	6,72	7,73	9,23	12,35	15,25	16,75	
COP cycle	W/W	3,00	2,92	3,09	2,90	3,06	3,33	3,12	3,22	3,34	3,31	3,32	3,25	3,19	
COP fan included (HB)	W/W	2,24	2,29	1,96	2,18	2,37	2,03	2,15	2,31	2,48	2,58	2,28	2,38	2,42	
Power input (HP - HS)	kW	3,00	3,52	5,57	3,08	3,37	5,27	6,47	7,09	8,12	9,57	12,85	15,75	17,25	
<b>General</b>															
Centrifugal fans number		1	1	1	1	1	1	1	1	1	1	2	2	2	
Rated air flow	m <sup>3</sup> /h	2500	2500	5500	2500	2500	5500	5500	5500	6500	6500	11000	13000	13000	
Available static pressure (rated A.F.)	Pa	91	85	140	91	85	135	130	120	120	110	125	95	90	
Water content (without tank)	dm <sup>3</sup>	2,5	2,8	3,3	2,5	2,8	3,3	3,5	4,1	4,4	5	6,1	7,3	7,8	
Expansion tank	dm <sup>3</sup>	1	1	5	1	1	5	5	5	5	5	8	8	8	
Water tank	dm <sup>3</sup>	20	20	36	20	20	36	36	36	96	96	155	155	155	
Water connections	inches	1	1	1 1/4	1	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	
Dimension - Height	mm	1000	1000	1160	1000	1000	1160	1160	1160	1210	1210	1400	1400	1400	
Dimension - Length	mm	1050	1050	1250	1050	1050	1250	1250	1250	1650	1650	2250	2250	2250	
Dimension - Width	mm	600	600	730	600	600	730	730	730	800	800	800	800	800	
Operation weight *	kg	173	183	260	173	183	260	265	270	388	436	601	627	638	
Total sound power	dB A	70	70	78	70	70	78	78	78	79	79	80	82	82	

\* Weights referred to version including pump and buffer tank

- Heating capacity: outdoor air temperature 7°C dry bulb and 6.2°C wet bulb, water temperature 40°C/45°C
- Sound power level measured according to standards ISO 3741 - ISO 3744 and EN 29614-1
- Sound pressure level calculated with directional factor equal to 2 .