

PRODUCT CATALOGUE



PROVIDING **GLOBAL SYSTEM SOLUTIONS**

CHILLER
MCC



INTRODUCTION TO THE RANGE

This range of ductable industrial liquid chillers can be installed in machine rooms (or outdoors). The condenser air intake is fitted with flaps for easy mounting of a collection duct; a filter support is incorporated. Distribution can be vertical or horizontal and the available pressure range is from 100 to 300 Pa.

A "Quiet" version provides very considerable reduction of the sound level generated by the compressors.

CLIMATIC™ CONTROL

- PID control
- Built-in clock: Start/stop programming - Set point change
- Compressor operating time balancing
- Set point adjustment according to external temperature
- Fault control for each component
- Individual circuit diagnostics
- General alarm with report
- Antifreeze protection
- Control of one or more pumps
- Connectable to a BMS
- Choice of local or remote digital or graphic screens

OPTIONS

- Different static fan pressures
- All-season operation
- Water flow switch
- "Blygold Plus" coil protection
- HP/LP pressure gauges
- Pressure-controlled hot gas by-pass
- Conforms to UDT standard
- Cartridge-type dryer
- Electronic expansion valve
- KPO7 graphic display unit
- ON/OFF switch



CONSTRUCTION



- Bent and welded galvanized sheet steel frame
- Aluzinc sheet casing
- Protection by Epoxy treatment (RAL 9002)
- Hermetic scroll compressor and semi-hermetic piston compressor (with silencer on discharge)
- R407C refrigerant
- Insulated multitube evaporator with air and purge system - Flanged connections
- Vertical condenser coils with filter support (filters available as option)
- Double-intake centrifugal condenser fan
- IP55 class F motor
- IP 55 control and protection panel according to EN 60 204-1
- 1 or 2 independent cooling circuits according to size
- Filter dryer, liquid indicator, manual stop valve on liquid line, solenoid valve (MCC P only), thermostatic expansion valve, HP pressure switches
- Electronic HP and LP sensors
- CLIMATIC™ electronic controller

- Horizontal blowing
- Coil protection grille
- Air filter
- Rubber anti-vibration mountings
- Separated Hydraulic module
- Water filter with connecting flanges
- Water pressure gauges (in/out)
- Alcohol thermometers, in/out (delivered unassembled)
- Evaporator isolation valve (delivered unassembled)
- Fill valve for hydraulic circuit

MCC - 61 → 311 kW

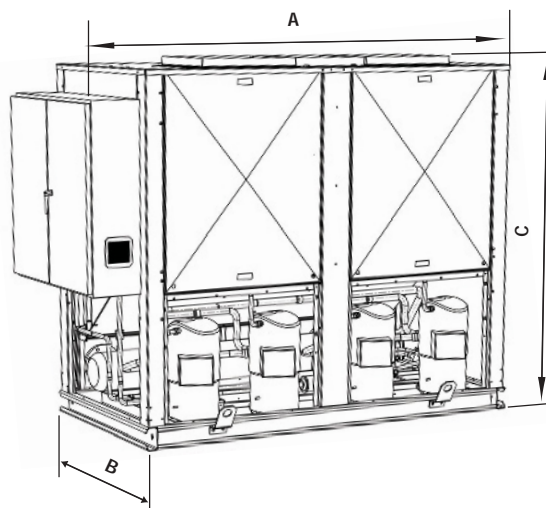
GENERAL DATA

MCC		71 S	81 S	92 S	102 S	132 S	162 S	192 P	212 P	242 P	282 P	302 P	
Cooling mode													
Cooling capacity ⁽¹⁾	kW	61	72	87	104	128	155	178	204	227	258	311	
Absorbed power ⁽¹⁾	kW	23	28	32	38	49	57	67	72	80	97	116	
COP		2,7	2,5	2,7	2,7	2,6	2,7	2,6	2,8	2,8	2,7	2,7	
Electrical data													
Voltage	V / Ph / Hz	400/3/50											
Start-up intensity	A	205	255	225	360	375	355	575	635	655	825	920	
Maximum current	A	54	64	83	113	126	139	181	203	224	276	333	
Refrigeration circuit													
Number of circuits	Nb	1	1	2	2	2	2	2	2	2	2	2	
Compressor	Nb	2	2	4	4	4	4	2	2	2	2	2	
Evaporator	Type	Shell and tubes											
Capacity steps	Nb	2	2	4	4	4	4	4	4	4	4	4	
Refrigerant charge per circuit	kg	8	9	11	14/11	14	17	20	23/20	23	25	31	
Hydraulic connection													
Type		Threaded					Flanges (PN 16)						
Diameter		2"1/2	2"1/2	DN80	DN80	DN100	DN100	DN100	DN100	DN100	DN150	DN150	DN150
Condenser fan (centrifugal)													
Number	Nb	2	2	2	2	2	3	3	4	4	4	5	
Nominal air flow	m ³ /h	18200	20000	29000	41000	41000	49500	61500	77000	77000	82000	102500	
Maxi available static pressure ducted outlet configuration	Pa	300	300	300	200	200	300	200	300	300	200	200	
Total motor power input ⁽²⁾	kW	1,8	2,2	4,0	7,5	7,5	5,5	7,5	7,5	7,5	7,5	7,5	
Fan speed ⁽²⁾	tr/mn	715	715	801	858	858	858	858	915	915	858	858	
Acoustic													
Sound pressure level ^{(2) (3)}	dB(A)	80	81	82	89	89	87	92	92	93	94	94	
Operating limits													
Maxi. outside air temperature	°C	38											
Mini. outside air temperature	°C	6											
Maxi. inlet water temperature	°C	20											
Mini. outlet water temperature	°C	+5°C without glycol											

(1) Water: 12°C / 7°C - Air: 35°C (2) For maximum available pressure "ducted outlets"
 (3) Eurovent conditions

PHYSICAL DATA

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MCC		71 S	81 S	92 S	102 S	132 S	162 S	192 P	212 P	242 P	282 P	302 P
View		1	1	1	1	1	1	1	1	1	1	1
A	mm	2610	2610	2610	2610	2610	3876	3876	4976	4976	4976	6242
B	mm	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161
C	mm	2013	2013	2013	2013	2013	2013	2013	2033	2033	2033	2033
Weight without water	kg	997	1027	1212	1229	1300	1753	1828	2166	2154	2154	2879
Operating weight	kg	1014	1047	1241	1260	1343	1796	1876	2214	2236	2236	2956



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