



MR

MR /FC

Air-cooled modular industrial chillers, with cooling capacities from 11 to 56 kW, suitable for indoor and outdoor installation; complete with stainless steel water pump, pressurized vessel, stainless steel plate evaporator, axial fans.

Characterized by a very small footprint, particularly suitable for installation close to the processing machine.

Versions

- **MR:** chiller for water temperatures from -5°C to $+ 25^{\circ}\text{C}$
- **MR-FC:** chiller with integrated free cooler
- **MR-FT/EX:** chiller suitable for extrusion lines, with shell&tube evaporator and without tank
- **MR-AP/EC:** chiller for indoor installation with high pressure fans
- **MR-BIO:** chiller suitable for biogas applications with outlet water temperature at 0°C

Advantages

- Reduced footprint
- FC version with integrated Free Cooler (saving more than 60% of energy)
- Micro-channels condenser and free cooler with low refrigerant charge and with low pressure drop
- Micro-channels condenser and free cooler easy cleanable using pressure washer



Main features

- Refrigerant gas R410A
- Hermetic Scroll compressor
- Stainless steel brazed plates evaporator
- Aluminium **micro-channels** condensers
- Axial fans
- Refrigerant pressure gauges and high and low pressure switches
- Stainless steel pump
- Automatic by-pass
- Automatic water filling
- Insulated pressurised water tank
- Microprocessor for temperature control
- Frame and panelling in galvanised steel, hot coated with polyester powders

Technical specifications MR

Model		MR 0210	MR 0310	MR 0410	MR 0510	MR 0710	MR 0910	MR 1210	MR 1610	MR 1910	
Cooling capacity*	kW	11	12,9	15,8	17,1	21,6	28,2	37,9	49,0	55,6	
	Kcal/h	9.460	11.060	13.630	14.670	18.610	24.250	32.580	42.180	47.830	
Cooling circuits	n.	1	1	1	1	1	1	1	1	1	
Power absorbed by the	kW	2,5	2,6	3,7	3,3	4,1	5,4	7,1	9,1	10,1	
Axial fans	n.	1	1	1	2	2	2	2	2	2	
	kW	0,49	0,49	0,49	2x0,49	2x0,49	2x0,49	2x0,62	2x0,62	2x0,62	
	m ³ /h	4.400	4.400	4.400	8.800	8.800	8.800	18.300	18.300	18.300	
Pump	kW	0,75	0,75	0,75	0,75	0,9	0,9	1,8	1,8	1,8	
	l/min	20÷110	20÷110	20÷110	20÷110	50÷160	50÷160	80÷250	80÷250	80÷250	
	bar	3,0÷1,95	3,0÷1,95	3,0÷1,95	3,0÷1,95	3,0÷2,0	3,0÷2,0	3,8÷2,8	3,8÷2,8	3,8÷2,8	
High pressure pump	kW	1,1	1,1	1,1	1,5	1,5	2,2	2,2	4	4	
	l/min	20÷80	20÷80	20÷80	40÷150	40÷150	40÷150	60÷210	100÷360	100÷360	
	bar	5,3÷3,7	5,3÷3,7	5,3÷3,7	5,2÷3,7	5,2÷3,7	5,9÷4,4	5,2÷4,0	5,4÷3,8	5,4÷3,8	
Tank	l	55	55	55	80	80	80	130	130	130	
Connections	BSP	1"	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	
Dimensions	Lenght	mm	830	830	830	1.365	1.365	1.365	1.815	1.815	1.815
	Width	mm	695	695	695	695	695	695	895	895	895
	Height	mm	1.630	1.630	1.630	1.830	1.830	1.830	1.865	1.865	1.865
Net weight	kg	205	215	235	250	265	275	350	375	405	

* The data refers to a water outlet temperature of 15°C and an ambient temperature of 25°C - Power supply 400 V/3 ph./50 Hz - Refrigerant: R410A ecological gas

Options

- EC axial fans with continuous speed control
- AP/EC high pressure fans with continuous speed control, ductable, for indoor installation
- High pressure pump
- Stand-by pump (only for MR1210÷1910)
- Stainless steel tank
- Electric panel heating (for ambient lower than -10°C)
- Remote control with double display
- Wheels
- Electronic thermostatic valve (only for MR1210÷1910)
- Special voltages and frequencies



Green Box Srl

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Technical specifications MR /FC with integrated free-cooling

Model		MR 0510/FC	MR 0710/FC	MR 0910/FC	MR 1210/FC	MR 1610/FC	MR 1910/FC
Cooling capacity *	kW	17,1	21,6	28,2	37,9	49,0	55,6
	Kcal/h	14.670	18.610	24.250	32.580	42.180	47.830
Cooling capacity of the freecooling	kW	23	23	23	41	41	41
	Kcal/h	19.780	19.780	19.780	35.260	35.260	35.260
Power absorbed by the compressor	kW	3,3	4,1	5,4	7,1	9,1	10,1
Axial fans	n.	2	2	2	2	2	2
	kW	0,49	0,49	0,49	0,62	0,62	0,62
	m ³ /h	8.800	8.800	8.800	18.300	18.300	18.300
Pump	kW	0,75	0,9	0,9	1,8	1,8	1,8
	l/min	20÷110	50÷160	50÷160	80÷250	80÷250	80÷250
	bar	3,0÷1,95	3,0÷2,0	3,0÷2,0	3,8÷2,8	3,8÷2,8	3,8÷2,8
High pressure pump	kW	1,5	1,5	2,2	2,2	4	4
	l/min	40÷150	40÷150	40÷150	60÷210	100÷360	100÷360
	bar	5,2÷3,7	5,2÷3,7	5,9÷4,4	5,2÷4,0	5,4÷3,8	5,4÷3,8
Tank	l	80	80	80	130	130	130
Connections	BSP	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
Dimensions Length	mm	1.365	1.365	1.365	1.815	1.815	1.815
Width	mm	695	695	695	895	895	895
Height	mm	1.830	1.830	1.830	1.865	1.865	1.865
Net weight	kg	265	280	305	385	400	430

* The data refers to a water outlet temperature of 15°C and an ambient temperature of 25°C - Power supply 400 V/3 ph./50 Hz - Refrigerant: R410A ecological gas

** The data refers to a temperature difference between the water output to the Free-Cooler and the ambient temperature at 10°C

Options

- EC axial fans with continuous speed control
- High pressure pump
- Stand-by pump (only for MR1210÷1910)
- Stainless steel tank
- Electric panel heating (for ambient lower than -10°C)
- Remote control with double display
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