

# MEKRO

M 2 ↔ M 6



Refrigerant  
R407C | GWP=1.774



Axial fan



Brazen plate  
heat exchanger

Air cooled water chillers



## Solution

I - Integrated

## Version

ST - Standard

## Equipment

AS - Standard equipment

Cooling Capacity 3 - 8 kW

<b>Housing</b>	Housing in galvanized steel, painted with a baked polyurethane powder and equipped with support feet for permanent installation. Unit suitable for indoor installation.
<b>Compressor</b>	HERMETIC ROTARY type, complete with thermal protection. Antivibration mountings and oil charge are standard.
<b>Fan</b>	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degree; aerodynamic housing and wing profile blades increase efficiency and decrease noise level.
<b>Air heat exchanger</b>	Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.
<b>Water heat exchanger</b>	NOFROST type: copper tubes in a plastic pipe fitted into a steel tank with shell covered with closed-cell neoprene anti-condensate material; complete with water differential pressure switch.
<b>Electrical board</b>	Switchboard to standards IEC 204-1/EN60204-1, complete with con factor and protection for compressor and fans. Main isolator and door interlock safety device.
<b>Control</b>	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
<b>Refrigerant circuit</b>	Filter dryer, moisture-liquid sight glass, thermostatic expansion valve with external equaliser, HP and LP pressure safety.
<b>Water circuit</b>	Pressure gauge on water supply, by-pass valve, air vent, water drain valve, open expansion tank, pump device suitable for glycol solutions up to 20%, water tank.
<b>ACCESSORIES</b>	<ul style="list-style-type: none"><li>■ Closed expansion tank</li><li>■ Castor wheels</li></ul>

MEKRO		M 2	M 4	M 6	T 2	T 4	T 6
<b>ST VERSION</b>							
Cooling capacity (1)	kW	3,1	5,7	8,2	3,1	5,7	8,2
Total compressors power input (1)	kW	0,6	1,3	2,0	0,6	1,3	2,0
Water flow (1)	m <sup>3</sup> /h	0,5	1,0	1,4	0,5	1,0	1,4
External pressure @ Pn (1)	bar	3,3	2,9	1,7	3,3	2,9	1,7
Compressors type	-	Rotary					
Compressors quantity	n°	1	1	1	1	1	1
Independent gas circuit	n°	1	1	1	1	1	1
Total air flow	m <sup>3</sup> /h	1.900	1.900	1.900	1.900	1.900	1.900
Fans type	-	Axial					
Fans quantity	n°	1	1	1	1	1	1
Fans power input	kW	0,07	0,07	0,07	0,07	0,07	0,07
Pump type	-	Peripheral					
Pump motor power input	kW	0,3	0,3	0,3	0,3	0,3	0,3
Water tank content	L	23	23	23	23	23	23
Sound pressure (2)	dB(A)	66	66	66	66	66	66
Power supply	V/ph/Hz + T	230/1/50			400/3/50		
Maximum absorbed current	A	7,3	10,7	13,4	2,4	3,5	4,4
Starting current	A	21,6	36,6	47,6	21,6	36,6	47,6
Water fittings		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
<b>DIMENSIONS AND WEIGHT - Integrated Solution</b>							
Lenght (L)	mm	740	740	740	740	740	740
Depth (P)	mm	550	550	550	550	550	550
Height (H)	mm	900	900	900	900	900	900
Shipping weight	Kg	85	95	115	85	95	115

**Note:**

(1) Condenser air 25°C - Evaporator water IN/OUT 20/15°C

(2) Sound pressure measured at 1 m in open field conditions

THE DECLARED COOLING CAPACITY ARE NOT TAKING INTO ACCOUNT THE PUMP MOTOR POWER INPUT (WHERE PROVIDED).

Minimum leaving water temperature LWT ≥ 13,0°C

EcoDesign regulation EU 2016/2281 not applicable.