

# 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.