

PRE-ASSEMBLED METALLIC CABINET WITH INSULATED STAINLESS STEEL DISTRIBUTION MANIFOLD

Use

Te-sa art. 7100P pre-assembled metallic cabinet, complete with insulated distribution manifold in stainless steel, is designed for the distribution and regulation of fluid in heating and cooling systems.

The manifolds, made of stainless material, completed with their insulation shell, are suitable for cooling systems but are employed also for underfloor heating. The peculiar design is characterized by a wide flow section with reduced pressure loss in circulating pumps.

The wide flow section of these manifolds allows the water to reduce its speed, resulting in less noise. Beautiful to see, it is strong, reliable and resistant to corrosion during ordinary applications.



Configuration and available sizes

The metal cabinet is realized with galvanized metal sheet bottom and full punched side pieces in order to let the passage of the power supply pipes. The horizontal rails have a center distance of 70 mm. The lid, complete with lock, and the frame are made of white varnished metal sheet (RAL9010) and the depth can be regulated between 110 and 150 mm.

Moreover, the cabinets are suitable for the assembly with basis with adjustable supports art. **211B11**.

The pre-assembled manifold is equipped with 3/4" Eurocone connections with 500 mm center distance and it consists of a supply manifold with micrometric regulation and return manifold with intercepting valves with adjustable handle and suitable for the assembly of electrothermal actuators. The manifold is then completed by close cells insulating shells made of expanded PE-X and labels for the identification of the connected circuits.

1" F inlet connections

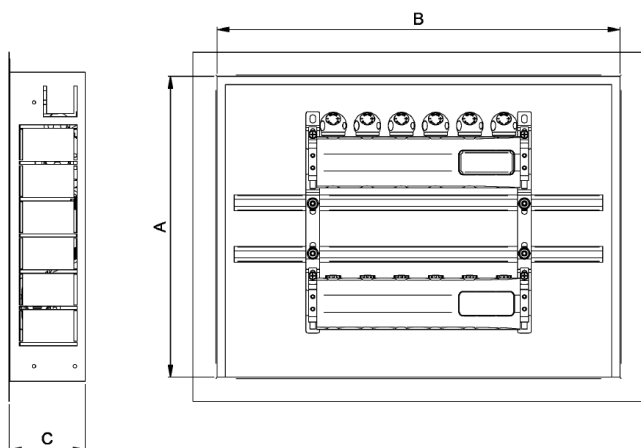
7100P-06-03	3 Loops
7100P-06-04	4 Loops
7100P-06-05	5 Loops
7100P-06-06	6 Loops
7100P-06-07	7 Loops
7100P-06-08	8 Loops
7100P-06-09	9 Loops



Technical data

- Bars in stainless steel EN 1.4301 - AISI304 UNI-EN 10088
- Manifolds components in brass alloy UNI EN 12164 - CW614N and UNI EN 12165 - CW617N
- Manifold bar size: 1"
- Supply manifold with micrometric lockshields adjustable with 5mm, equipped with protection cap to avoid the entry of dust or impurities
- Return manifold with interception valves equipped with handles in ABS, suitable for the mounting of electrothermal actuators with connecting thread M30x1,5
- Pre-formed insulating shell, made of a front and a back part, in close cells insulating PE-X
- Maximum operating pressure 10 bar
- Maximum test pressure 16 bar
- Operating temperature 0°C ÷ 85°C
- Maximum glycol percentage 30%
- KV factors in wide open conditions: supply manifold KV=4,42; return manifold KV=2,8; supply + return KV=2,36

Dimensions



Sizes chart (mm)

Art.	A	B	C
7100P-06-03	450	400	110+150
7100P-06-04	450	400	110+150
7100P-06-05	450	400	110+150
7100P-06-06	450	600	110+150
7100P-06-07	450	600	110+150
7100P-06-08	450	600	110+150
7100P-06-09	450	800	110+150

Installation of the electrothermal actuators 116T

The installation of the electrothermal actuators 116T is very easy and quickly. After removing the maneuver handle, screw completely by hand the plastic adapter at the thread M30x1,5 of the bonnet. The actuator is connected to the adapter with slight pressure, and can be oriented a little by turning it. The electrothermal actuators are supplied with the stem in middle position (First Open system). After the mounting, in order to totally close the interception valve of the manifold, it is necessary to connect the actuator to the electrical power supply for some minutes to open it completely. By then shutting down the electrical power, the actuator totally will close totally. The actuators 116T series are Normally Closed type, therefore they open with electrical supply, while they close without electrical supply.



Accessories



305NTK/1 Pair of straight full port 1" ball valves, with union connection with O-Ring seal, completed with thermometer scale 0÷80°C.



350TK/1 Pair of angle full port 1" ball valves, with union connection with O-Ring seal, completed with thermometer scale 0÷80°C.



216T – 217T Compression fittings with nut threaded 3/4" Eurocone, to connect polyethylene pipes and multilayer pipes to the manifolds. Available for the main commercial sizes of pipes.



116T Electrothermal actuator normally closed with easy and fast connection. For bonnets M30x1,5. Available with and without end switch (two or four wires) in the voltages 230V and 24V.



254CGD-06 End piece for 1" manifolds completed with manual air vent valve and charge/discharge valve. O-ring seal on connection. With clumping nut.



213-06 Chrome plated brass 1" end plug. O-ring seal on connection.