



ATUSA presents to the market the Cim 138 valve, manufactured in Italy by the prestigious CIMBERIO S.p.A. company.

**The Cim 138 valve allows the liquid to be drained when the temperature reaches a value of 3°C.**

The main function of this valve is to detect a potential freezing of the liquid fluid circulating in the system. If the temperature of the heat pump system drops below a certain value, the CIM 138 anti-freeze valve opens and releases a small amount of liquid, stopping the freezing process.

In winter there is no better ally for heat pump systems than the CIM 138, as it protects the installation by preventing freezing that could cause pipes to burst, saving costly repairs.

### Technical data

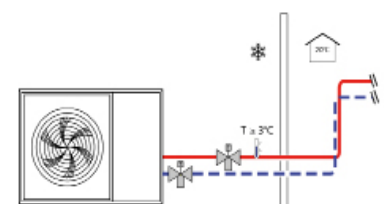
- Max. static working pressure: 10 bar
- Working temperature range: 0-65 °C
- Ambient temperature range: -30-60 °C
- Average temperature (open): 3° C
- Average temperature (close): 4° C
- Accuracy:  $\pm 1$  °C
- Fluids: Water
- Materials: Standard Brass (EN 12165 CW617-DW)
- O-rings: EPDM Perox
- Threads: ISO 228



### Installation and recommendations

- The device should only be installed in a vertical position, with the outlet facing downwards, to allow the drained water to flow properly free of obstructions.
- The CIM 138 frost protection valve must be installed outdoors, where lower temperatures can be reached if the heat pump is closed. It must be positioned well away from heat sources to allow proper operation.
- It is recommended to install anti-freeze valves in both pipes (inlet and outlet). Otherwise, water belonging to the other pipe may freeze.
- The system must always be kept at its pressure, even during draining, ensuring that the anti-icing device functions correctly.
- Do not cheat connections. If the connection is not proper and drainage is hindered, the frost protection can no longer be guaranteed.

WINTER OPERATION IN HEATING MODE



OPERATION IN CASE OF HEAT PUMP FAILURE

