

Clima 100



Heating, ventilation and screens

The Clima 100 series is a range of basic climate controllers, which allow you to inexpensively automate your ventilation, screen and heating control. The controllers are guided by integrated micro-computers. The Clima 100 series consists of three types of climate controllers.





Clima 100

Clima 100 H Heating Controller

This controller is used for hot-air heating or central heating. In the latter case, the Clima 100 is connected to the mixing valve and circulation pump by means of an OS100 MP pump and mixing valve reverse switch. A pipe temperature sensor (MW80) can be connected via an HC-PT adapter. A guard control ensures that the pump and mixing valve switch on once every 24 hours to prevent clogging. In combination with an externally connected switch clock you can automatically switch between day and night temperature.

The system contains internal setpoints for:

- Amplification (0-10 °C/°C): determines the adjustment of the pipe temperature at a particular air temperature deviation.
- Running time amplification for mixing valve (0-10 s/°C): determines the running time of the mixing valve at a particular pipe temperature deviation.
- Minimum pipe temperature (0-50 °C)
- Maximum pipe temperature (50-120 °C)
- Alarms: When an air or pipe temperature sensor is defective, all LEDs on the cabinet start blinking. Pipe temperature below minimum or above maximum.
- LED indications for: Power supply voltage, Heat demand, Pipe temperature too high (LED on) / pipe temperature too low (LED blinks), Night period, Day period

Clima 100 V Ventilation Controller

For single-sided or double-sided ventilation with one central drive system. Depending on the measured air temperature and the ventilation temperature setpoint, the vents are opened or closed. In combination with an externally connected switch clock you can automatically switch between day and night temperature. A wind speed guard ensures that the vents are closed in the event of a storm. After the 'storm delay time' has elapsed, the ventilation controls are released. A rain guard is optional. A rain guard closes the vents when rain is detected.

The system contains internal setpoints for:

- Storm level (0-20 m/s);
- Delay time after storm (0-10 minutes);
- Amplification factor (0-10): for setting the reaction speed in case of a temperature deviation;
- Ventilation running time (0-10 minutes)
- Alarms: Sensor malfunction, Storm, Rain, The alarm outputs for rain and wind can be connected to a second Clima 100V. This allows several controllers to use the same rain and wind sensor.
- LED indications for: Power supply voltage, Rain or storm, Temperature too high, Temperature too low, Night period, Day period

Clima 100 S Screen Controller

This controller is used for the control of a radiation screen (screen closes when the radiation level exceeds the set level), energy screen (screen closes when the outside temperature drops below the set level) or blackout screen (works on a time or manual switch). The screens open gradually to prevent a sudden change in temperature. If the air temperature rises too high, a screen chink can be set (optional).

The system contains internal setpoints for:

- Radiation limit open screen (0-150 W/m²);
- Maximum air temperature (10-35 °C);
- When exceeded, a proportional chink of 2%/°C is applied;
- Maximum screen chink (0-30 %), Running time of screen (0-15 minutes)
- Alarms: When an outside temperature or radiation sensor is defective, all LEDs on the cabinet start blinking, Screen closed
The alarm output "screen closed" can be connected to a second Clima 100S. This allows several controllers to use the same radiation or outside temperature sensor.
- LED indications for: Power supply voltage, Radiation too high, Air temperature too high, Outside temperature too low



HortiMaX
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