

Night Air Cooling / Ventilation

Ventilation Control dT100

The automatic dT100 control for ventilation and temperature tasks was developed for flexible use in wineries. The OFF - MANUAL - NIGHT AIR - TIME operating modes can be freely selected using buttons in the front of the controller. The system directly actuates motorised closure flaps and fans. A programmed time regime ensures that the closure flap is always opened before the fan starts up. Deactivation is achieved in reverse order. The closure flap only closes with a time delay after the fan stops. In the TIME operating mode, ventilation in the case of an activated time window is controlled without regard for the indoor and outdoor temperature (e.g. for regular air renewal, tartaric stabilisation, etc.). In addition, a clock signal with defined activation and deactivation times can be defined in TIME operating mode within the time window. In the NIGHT AIR operating mode, ventilation is actuated in the programmed time window (up to 4 time windows) if the outside temperature is at least 1 °C (configurable value) lower at the starting point than the indoor temperature.

Features

- ▶ AC 230V/50Hz
- ▶ Max. output of blowers + flaps 2/3, 6/6 kVA
- ▶ Protection rating (EN60529): IP65
- ▶ Operating mode selection OFF - MANUAL - NIGHT AIR - TIME
- ▶ Digital timer switch with power reserve, freely programmable
- ▶ 4 independent switching times each in night air and time mode
- ▶ Release input for humidistat control
- ▶ Release input for forced activation through CO2 monitor
- ▶ Digital differential temperature controller with PT100-3L probe inputs (for greater distances)
- ▶ Digital display for indoor/outdoor temperature and time
- ▶ Alarm output (relay) and alarm status display
- ▶ Delayed fan start-up after opening of flaps
- ▶ Delayed closure of flaps after fan deactivation
- ▶ ABS housing with transparent door:
L x H x D=190 x 200 x 110mm
- ▶ Accessories: Fastening clips, cable glands

Designation	Details	Order no.	Unit price/€
dT100-IP65-10A	Ventilation control 10A/2,000 VA	206.4009	
dT100-IP65-16A	Ventilation control 16A/3,600 VA	206.4010	
dT100-IP65-3PH-16A	AC ventilation control 16A/6,000 VA	206.4011	
TF-NLK *)	Temperature probe in housing	202.0050	

*) 2x temperature probes are required for each control system. Please order separately.



206.4009 to 206.4011

Ventilation Control dT200

The dT200 ventilation control unit has two digital measurement sensors for recording indoor and outdoor temperatures and relative humidity. These data are used to calculate the so-called dew point temperatures using a calculation algorithm. The dew point temperature is the temperature below which water vapour condenses on surfaces. Condensation on building wall surfaces offers ideal conditions for the formation of mould and the occurrence of water damage. The unit reliably prevents condensation in interiors. When combined with a dew point monitoring mode, or even if used separately, the temperature of the interior area can be controlled. The unit can be set to heating, cooling & heating and cooling with a defined target value.

Features

- ▶ AC 230V/50Hz or 3-phase AC 400V/50Hz
- ▶ Protection rating of housing front: IP65
- ▶ Digital display for indoor/outdoor measurements or for configuration
- ▶ Operating mode selection OFF - MANUAL - TIME - Prog.1 - Prog.2
- ▶ Digital timer switch with power reserve, freely programmable
- ▶ 4 independent switching times each in TIME - Prog. 1 - Prog. 2 operating modes
- ▶ Circular buffer for data recording
- ▶ 2x T/rH measuring transducers can be connected
- ▶ PC housing L x W x D = 300 x 230 x 110mm
- ▶ PT100 surface probes in 3-conductor technology (optional)
- ▶ Alarm output (relay) and alarm status display
- ▶ Delayed fan start-up until flaps open
- ▶ Delayed flap closing after fan deactivation
- ▶ Input for release (dry contact)
- ▶ Input for forced ventilation (contact e.g. CO2 warning system)
- ▶ Outputs for the control of EC fans
- ▶ Accessories: Cable glands
- ▶ Optional: GSM modem for remote data access

Designation	Details	Order no.	Unit price/€
dT200-3PH/EC	Ventilation control with dew point regulation	206.4015	
T/rH transmitter *)	Temperature/humidity measuring transducer	206.4103	

*) 2x T/rH transmitters are required for each control system. Please order separately.



206.4015



206.4103



206.4103