

CL-5400

Climate control in naturally-ventilated houses

- 1 Fan group and 12 individual curtain controls
- Weather compensation
- 4 temperature controls and 2 cooling controls
- 6 intensity-controlled timers, optionally with twilight switches
- Safety guaranteed by an emergency stop and an anti-crush facility
- All curtains are opened/closed briefly and automatically every day
- Secured communication with FarmConnect



CL-5400: the number one climate solution in naturally-ventilated cattle houses

The CL-5400 features virtually all possible ventilation controls that occur in modern cattle farming. It enables you to constantly monitor and control the climate in the cattle house. The cattle computer has one ventilation group and twelve curtain controls. These controls can be programmed individually and are linked to different temperature sensors. The controller raises or lowers the curtains depending on the temperature measured. The CL-5400 also features weather compensation. In conjunction with the weather station and the rain sensor, the cattle computer ensures that any influence of rain and wind on the climate in the house is minimised. The individual ventilation groups are corrected based on wind speed, wind direction and rain, after which the corresponding curtains are opened/closed. The weather station can communicate with several houses at a time. To guarantee optimum safety and a long service life of the curtains, the CL-5400 has an anti-crush facility and a daily automatic and short open/close action.

Technical specifications

Standard on CL-5400	
Digital inputs for dim switches and/or counters	3
Temperature inputs	5
0-10V inputs for RH, CO2 and NH3 sensor	4
Relay outputs for cooling and heating	9
0-10V outputs for light and ventilation controls	5
Error relay 24Vdc/2A	1
24Vdc/80mA power supply	2
12Vdc/25mA power supply	1

Upgrade options CL-5400	
Functional expansion using module bus	✓
Communication via the RS-485 PCB	✓
Weather station	✓
General	
Power supply: 230Vac-50/60Hz	
Load: 30VA	
Protection class: IP 54	
Dimensions: 230 x 320 x 155 mm	
ABS housing	
Min. ambient temperature: -5°C	
Max. ambient temperature: 40°C	

ECO-Prop recirculation fan

The Stienen BE ECO-Prop can be controlled accurately by the SPM or MPM power control. The recirculation fan is distinguished by its hugely energy-efficient character. Its large diameter enables this Stienen fan to displace the same amount of air as the usual smaller fans, but at a much lower speed. This offers three advantages:

1. considerable energy savings
2. a low sound level
3. reduced draught and/or dehydration symptoms

The ECO-Prop is covered in plastic sheeting.

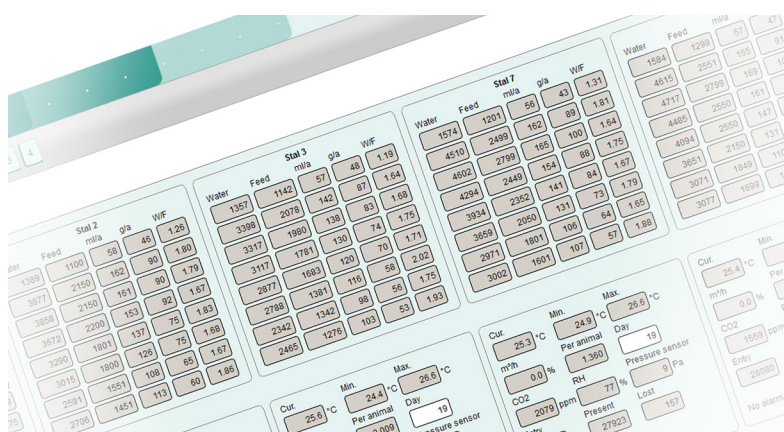
FarmConnect (optional)

The FarmConnect farm software collects all current and historical data of all control computers on your farm, combines this data, and then presents it in clear overviews, graphs and tables. FarmConnect gives you access to your farm data. Wherever you are, you are always connected to your company so that you can intervene immediately if necessary.

ELM-150 motors

The CL-5400 works in conjunction with two types of motors:

- ELM-150C to drive the curtains
- ELM-150V to drive the air inlet valves



Stienen BE, Agri Automation

Stienen BE is a leading family company (1977) which has its roots in livestock farming. It is in our nature to be very close to our end users. We are a global supplier of innovative automation solutions for poultry and pig houses. Our climate solutions, automation systems, management software and the accompanying peripheral equipment are all developed and produced in-house.