

PLD-100

Extremely straightforward
climate computer
based on on/off controls

- Extremely easy to install and operate
- Icon-controlled touch screen
- Controls feed, water and light timers
- Innovative valve motor control
- USB port for program updates and backups
- Secure communication with FarmConnect



PLD-100 ventilation system with Duty-cycle^{plus} ventilation

The PLD-100 climate computer controls the climate in poultry houses by means of fans and air inlets. The climate in the house will automatically adapt to your animals' needs thanks to the clever ventilation principle that is integral to the design of the PLD-100. This controller allows three ventilation phases:

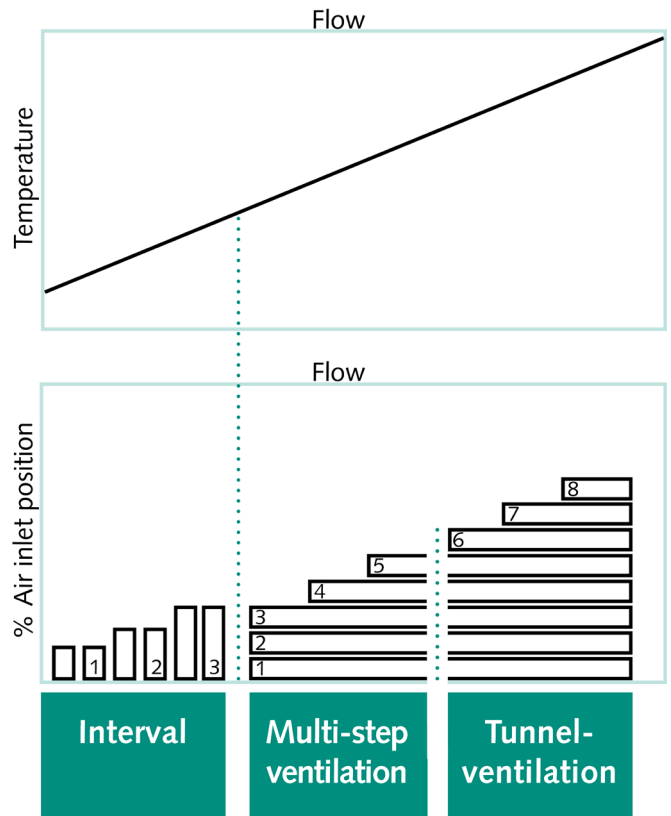
1. Duty-cycle^{plus} ventilation
2. Multi-step ventilation
3. Tunnel ventilation

Ventilation in the house is controlled on the basis of the Duty-cycle^{plus} principle for the first few days after introducing the flock. Whilst the pulse time remains unaltered, the controller automatically calculates the right pulse-pause ratio at which the fans are controlled, creating an optimum and constant air throw.

Once the ventilation is no longer sufficient, the system switches to multi-step ventilation where fans in the side and end walls are gradually adjusted to comply with the animals' increasing ventilation demand.

And finally, the system switches to tunnel ventilation, based solely on fans in the end wall. The incoming air moves longitudinally through the house and over the animals at a speed of max. 2.5 m/s, thus creating an extra cooling effect (to 7 °C, with 50% RH).

The PLD-100 has growth curves for temperature, minimum ventilation, maximum ventilation, differential temperature ventilation, heating and cooling. Integrated alarms protect the climate in the house and issue warnings if there are any malfunctions.



Configuration overview

Ventilation	
Fan groups	8
Air inlets	2
Tunnel inlets	2
Heating	
Heating contacts	2
Circulation fan contact	1
Cooling	
Cooling contacts for spray cooling	1
Cooling contacts for evaporative cooling	1
RH sensor	1

Temperature	
Room temperature sensors	2
Outside temperature sensor	1
Other	
Light timer	1
Water timer	1
Feed timer	1
Water counter	1
Feed counter	1
Alarm contact	1

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.

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.