

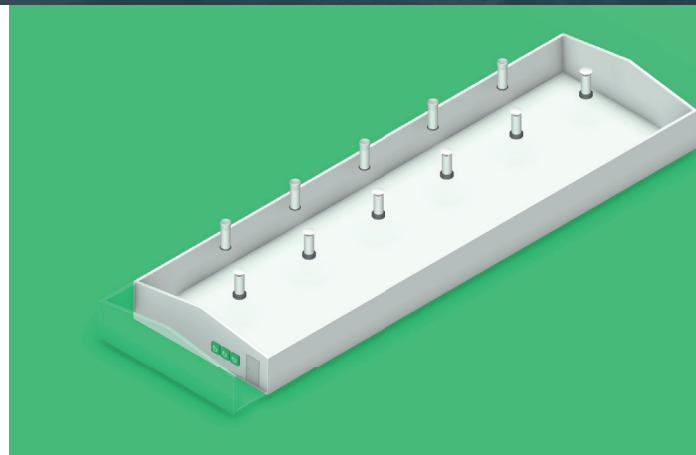
Low Pressure Chimney Ventilation

- ✓ Efficient mixing of warm and cold air
- ✓ Good distribution of fresh air
- ✓ Energy-optimized compared to EPCV
- ✓ Optimization of operation via advanced control
- ✓ Alarm system with battery backup for emergency opening

Negative-pressure ventilation with air distributors and chimney exhaust system.

LPCV creates a slight negative pressure that draws fresh air in through controlled inlets without the use of fans.

LPCV supplies fresh air via a patented air distributor, which ensures even air distribution even during the coldest periods. This solution requires a well-sealed stable.



SYSTEM CAPACITY & AIR EXCHANGE

Max. airflow (summer):	150 m³/h per pig (From 100 Kg)
Min. airflow (winter):	15 – 20 m³/h per pig (slaughter pigs)

EXHAUST UNITS (FANS)

Type:	650/730/820/920 roof fans (high-efficiency IE3 AC-motors)
Diameter:	ID650/OD730, ID730/OD810, ID820/OD900, ID920/OD1000
Max. capacity:	12.400/16.000/20.000/25.000 m³/h
Motor efficiency:	0.75 kW to 1.1 kW per fan
Control:	Frequency control 3x230V (0-100% reg.) or ON/OFF 3x400V
Protection class:	IP 55

AIR INLETS (AIR DISTRIBUTOR)

Type:	650/820/920 Air distributor
Diameter:	ID650/OD730, ID820/OD900, ID920/OD1000
Max. capacity**:	Approx. 5.900 m³/h / 9.400 m³/h / 11.800 m³/h (at 20 Pa)
** Maximum capacity may be affected by the negative pressure.	

CONTROL AND AUTOMATIC REGULATION SYSTEM

Climate computer: RIKA Climate 108 with VE-BUS communication and Farmviewer*

Control options: Temperature °C (measured indoors/outdoors), Relative humidity RH*, CO₂ level*

Functions: Curve and age-controlled ventilation, Automatic summer/winter mode, Alarms in the event of a power failure or incorrect temperature, Alarm system with battery back-up for temperature-controlled emergency opening

OPERATING CONDITIONS

Measured static pressure:	-10 to -30 Pa
Relative humidity (RH):	60 – 70%
Temperature zone:	15 – 25°C (user-defined/depending on outdoor temperature)

* Optional extras

