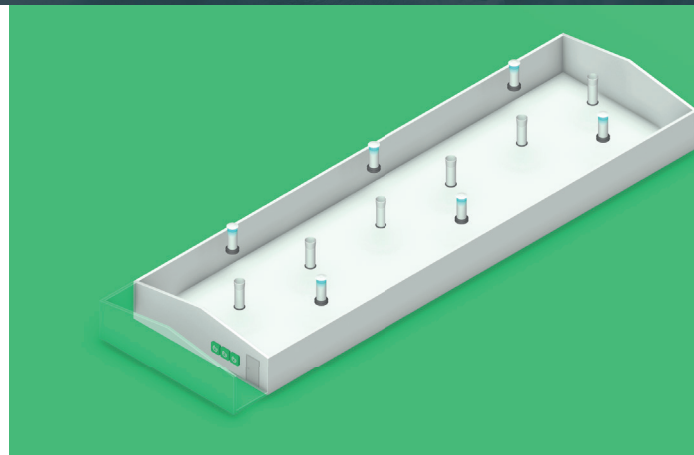


UV-C Equal Pressure Chimney Ventilation

- ✓ Suitable for older buildings
- ✓ Good distribution of UV-C-treated fresh air
- ✓ Controlled via the existing control or separate pressure control
- ✓ >95% Inactivation of the most common viruses and bacteria
- ✓ Alarm monitoring of each individual light source

UV-C equal-pressure ventilation with air distributors and chimney exhaust system.

The UV-C EPCV supplies fresh air via chimneys fitted with high-reflectivity inserts, in which the UV-C light sources are mounted, ensuring that the outside air blown into the stable receives the correct UV-C intensity and is distributed via a patented air distributor, thereby achieving the calculated infection control.



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/sows)

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

EPCV AIR INLETS (AIR DISTRIBUTORS WITH FANS)

Type:	650/820 roof fans (high-efficiency IE3 AC-motors)
Diameter:	ID650/OD730 – ID820/OD900
Max. capacity:	7.500 m³/h / 15.000 m³/h
Motor efficiency:	0.37 kW to 0.75 kW per fan
Control:	Frequency-controlled 3x400V (40-70% regulation)
Protection class:	IP 55
UV-C energy consumption:	225 W to 900 W (per UV-C chimney)

* Optional extras

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*, Pressure control for EPCV*

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:	5 to -5 Pa
Relative humidity (RH):	60 – 70%
Temperature zone:	15 – 25°C (user-defined/depending on outdoor temperature)

