

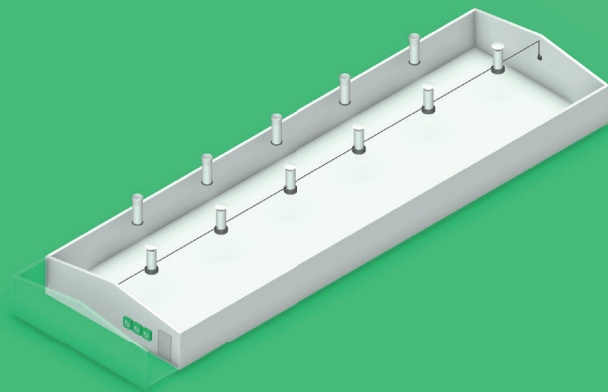
# Equal Pressure Chimney Ventilation

- ✓ Precise control of the air balance
- ✓ Good distribution of fresh air
- ✓ Suitable for older stables
- ✓ Optimization of operation via advanced control
- ✓ Alarm system with battery backup for emergency opening

## Negative-pressure ventilation with an air distributor and fan, and chimney exhaust system.

EPCV can be adapted to stables where air can only be supplied through the roof, ensuring stable air management.

EPCV supplies fresh air via air distributors, whilst exhaust air is extracted through a roof chimney, which creates neutral pressure in the stable and allows for precise control of the air balance.



### SYSTEM CAPACITY & AIR EXCHANGE

|                               |                                            |
|-------------------------------|--------------------------------------------|
| <b>Max. airflow (summer):</b> | 150 m³/h per pig (From 100 Kg)             |
| <b>Min. airflow (winter):</b> | 15 – 20 m³/h per pig (slaughter pigs/sows) |

### EXHAUST UNITS (FANS)

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

### AIR INLETS (AIR DISTRIBUTORS WITH FANS)

|                                                  |                                                             |
|--------------------------------------------------|-------------------------------------------------------------|
| <b>Type:</b>                                     | 650/820/920 Air distributor (high-efficiency IE3 AC-motors) |
| <b>Diameter:</b>                                 | ID650/OD730, ID820/OD900, ID920/OD1000                      |
| <b>Max. capacity**:</b>                          | 12.000/18.200/22.500 m³/h                                   |
| ** may be affected by the fitting of a rain cap. |                                                             |
| <b>Motor efficiency:</b>                         | 0.37 kW to 1.1 kW per fan                                   |
| <b>Control:</b>                                  | Frequency-controlled (0-100% regulation)                    |
| <b>Protection class:</b>                         | IP 55                                                       |

\* 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\*, CO<sub>2</sub> level\*, Pressure control\*

**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

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| <b>Measured static pressure:</b> | 0 to 2 Pa                                                 |
| <b>Relative humidity (RH):</b>   | 60 – 70%                                                  |
| <b>Temperature zone:</b>         | 15 – 25°C (user-defined/depending on outdoor temperature) |

