



# VENTILATION SYSTEM

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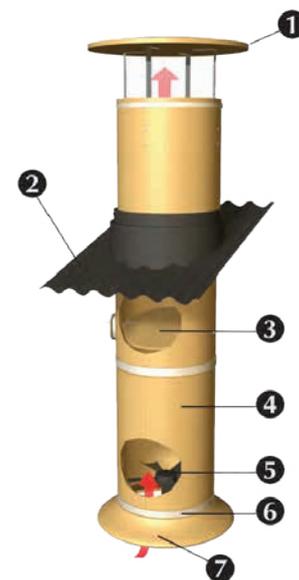
Porktec offers fans adequate for several ventilation systems as they can be controlled for minimum and maximum ventilation. The fans are resistant against the aggressive climate of harmful substances, like ammonia, refreshing the air and cooling of pigs. The fans can be applied for all types of pigs.

## CHIMNEYS

Porktec chimneys are made of high-quality polyurethane and designed for a perfect ventilation characteristic. Chimneys are available in the diameters 404, 520, 640, 720 and 820 and are produced as half shells with a thickness of 25 mm. The half shells are assembled by means of stainless steel tension rings to assure a strong and rigid construction.

### Chimney components

- |   |                               |
|---|-------------------------------|
| 1- Rain cap for Chimney                                     | 4- Half shell; L= 0.5 / 1 mtr |
| 2- Roof plate undulated or Flat                             | 5- Multispeed fan             |
| 3- Adjusting flap with removable SS shaft ends for actuator | 6- Tightening rings           |
|   | 7- Air guide                  |



## TUBE MOUNTING FAN

Tube mounting fans can be integrated into existing equipment, placed in pipes or mounted in vents. The flexibility of the mounting options makes them easily adaptable to a variety of applications in an already enclosed space.

The application of these fans can be in a vent pipe for livestock building. They are also used as the propulsion for hot-air blowers, air humidifiers, inlet and outlet pipes, etc.

### Specifications:

- Available diameters range from 25 cm to 92 cm
- Various frequencies (50 Hz, 60 Hz)
- Air volumes at 0 Pa range from 2.340 m<sup>3</sup>/h to 21.100 m<sup>3</sup>/h (50 Hz fans)
- Air volumes at 0 Pa range from 2.390 m<sup>3</sup>/h to 23.100 m<sup>3</sup>/h (60 Hz fans)



## WALL FANS

Porktec offers a wide range of panel fans, which can be installed in the sidewalls of the building.

The range of fans covers all the possible uses in modern farms, with different motors operating on single or three-phase currents and for 50 or 60 Hz.

### Specifications:

- Different range of diameters is available
- Low power consumption
- Long durability
- Easy to install
- Suitable for different applications
- Safe in use



# AIR INLETS

For optimal ventilation results, the right type of air inlets must be used in combination to the fans.



Porktec provides air inlets made of high quality polyurethane foam to fit any needed size and capacity. The polyurethane construction gives strength added to thermo insulation that prevents water condensation at the inner side of the inlet in cold weather and prevents unwanted heat exchange with the outside.

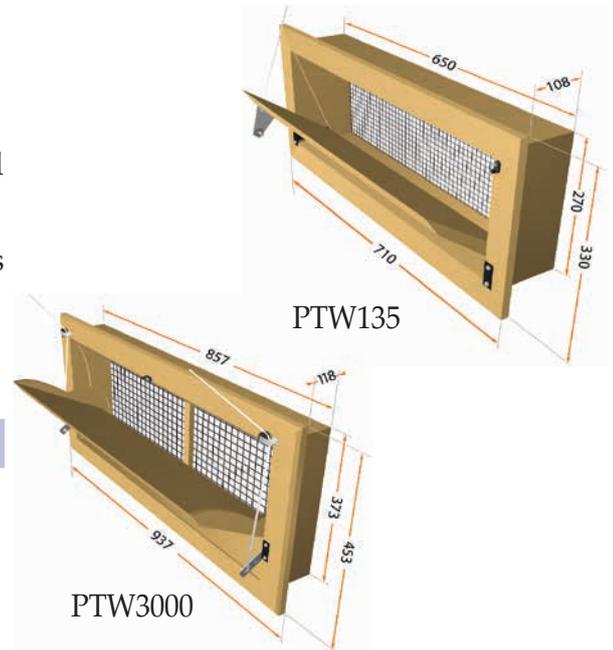
The inlets are available in a wide range of dimensions making projection possible in practically all house concepts and climate conditions. The straight inner flaps are used for pigs preventing the air to be guided directly over the animals.

## WALL INLETS

### PTW135/3000

- 🔧 Made of high density polyurethane foam
- 🔧 Flange on the front side, executed with a straight, bottom-hinged inner flap
- 🔧 Incorporated stainless steel spring opens the inlet, so the inlet is pulled to close

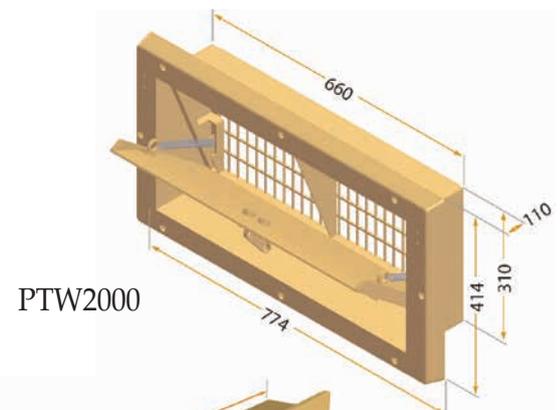
	10 Pa	20 Pa	40 Pa
PTW135	1,450 m <sup>3</sup> /h	2,050 m <sup>3</sup> /h	2,900 m <sup>3</sup> /h
PTW3000	2,900 m <sup>3</sup> /h	4,100 m <sup>3</sup> /h	5,800 m <sup>3</sup> /h



### PTW2000

- 🔧 Made out of UV-Stabilized ABS
- 🔧 Specially designed for those areas where the insulation factor is not or less relevant.

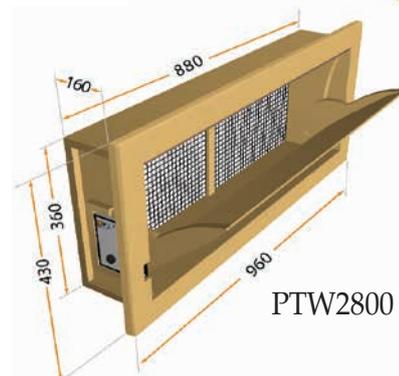
	10 Pa	20 Pa	40 Pa
PTW2000-P	1,800 m <sup>3</sup> /h	2,500 m <sup>3</sup> /h	3,600 m <sup>3</sup> /h



### PTW2800-P

- 🔧 Motor controlled inlet

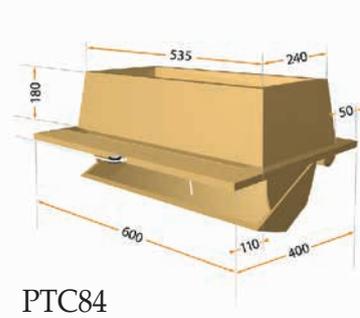
	10 Pa	20 Pa	40 Pa
PTW2800-M	2,800 m <sup>3</sup> /h	4,000 m <sup>3</sup> /h	5,600 m <sup>3</sup> /h



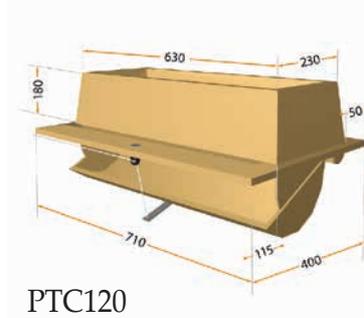
## CEILING INLETS

- Made of high density polyurethane foam
- Control by means of a bracket mounted on the valve

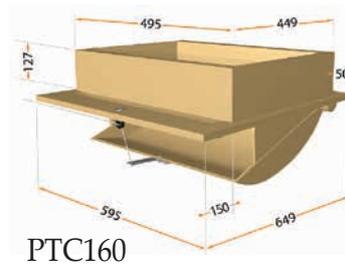
	10 Pa	20 Pa	40 Pa
<b>PTC84</b>	760 m <sup>3</sup> /h	1,070 m <sup>3</sup> /h	1,520 m <sup>3</sup> /h
<b>PTC120</b>	1,100 m <sup>3</sup> /h	1,560 m <sup>3</sup> /h	2,200 m <sup>3</sup> /h
<b>PTC160</b>	1,600 m <sup>3</sup> /h	2,250 m <sup>3</sup> /h	3,200 m <sup>3</sup> /h
<b>PTC180</b>	1,800 m <sup>3</sup> /h	5,550 m <sup>3</sup> /h	3,600 m <sup>3</sup> /h



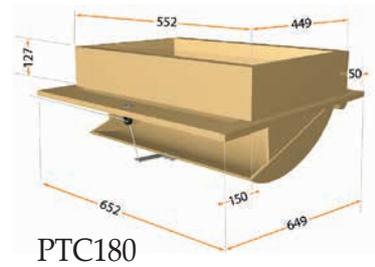
PTC84



PTC120



PTC160

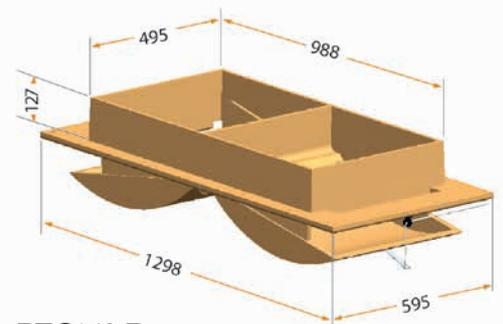


PTC180

### PTC160-D

- Double valve inlet
- Air can be guided in two opposite directions

	10 Pa	20 Pa	40 Pa
<b>PTC160-D</b>	3,200 m <sup>3</sup> /h	4,500 m <sup>3</sup> /h	6,400 m <sup>3</sup> /h



PTC160-D

## ROOF VENTILATION



Porktec provides ceiling ventilation that is suitable for almost every type of stable with a suspended ceiling.

Fresh air supply is enabled by the principal of displacement ventilation. The relatively high perforated surface area enables low entry speed of the air into the compartment. As result, a low pulse inflow is obtained. In addition, pressure losses are reduced due to the special geometry of the conical holes and in consequence the risk of draughts is minimized.

### Advantages:

- Low velocity of air
- Individual perforation, depending on the number of animals
- Easy installation due to prefabricated channel side parts
- Partial perforation possible
- Openings with nozzle function
- Smooth surface

