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Product catalogue

Solutions for the Swine segment



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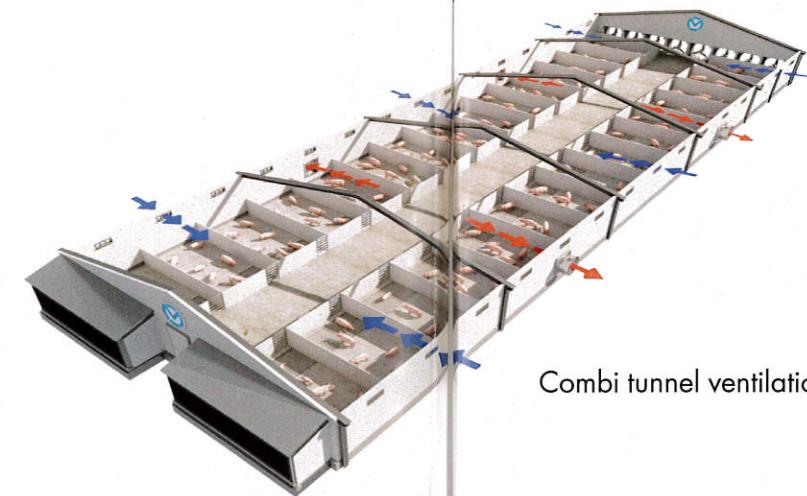
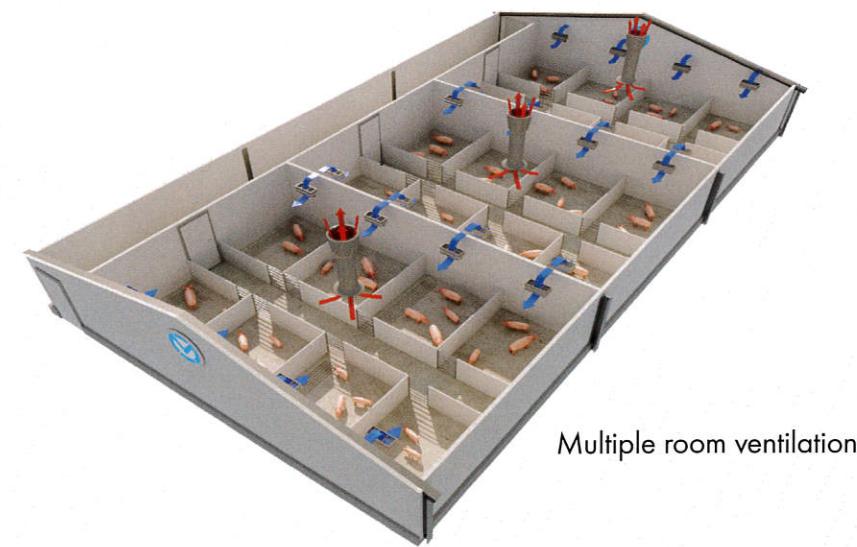
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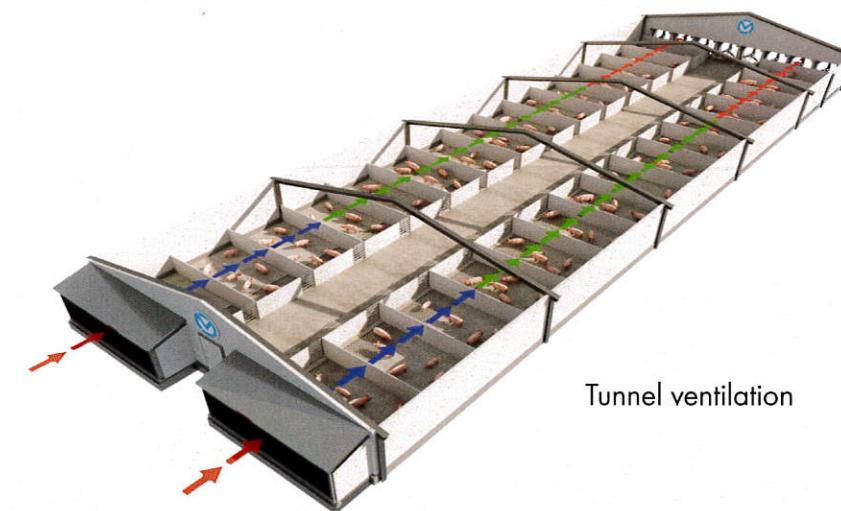
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Combi tunnel ventilation

**FAN INSULATION****AIR HEATING****AIR INLET**



INTRODUCTION COLD CLIMATE

Cold climate ventilation

As a rule of thumb, cold climate defined as environment where ambient temperature is below or within the animals comfort zone. In this climate, climate control provide heat if needed to secure comfort temperature in the animal zone. It also remove gasses and humidity (mainly produced by the animals) from the animal zone. For additional cooling in periods with higher temperatures, it also create air movement amongst the animals often added with fogging or sprinkler systems.

Main principles for air movement used in this climate are wall/ceiling air inlets or diffuse ceiling, together with exhaust chimney fans. Heating solution is defined based on the source of energy available at the site. Water based pipes or floor heating or oil/gas heaters are often used. Sprinklers and fogging systems are often a part of climate control in cold climate areas with a shorter period of warm days during summer.

Munters has a full product list for these applications from air intake, air outlet, heating systems; sprinkler/fogging systems to controllers connecting into one system with remote alarm and access. Munters is normally recognized as a leading supplier of products for extreme cold climate.

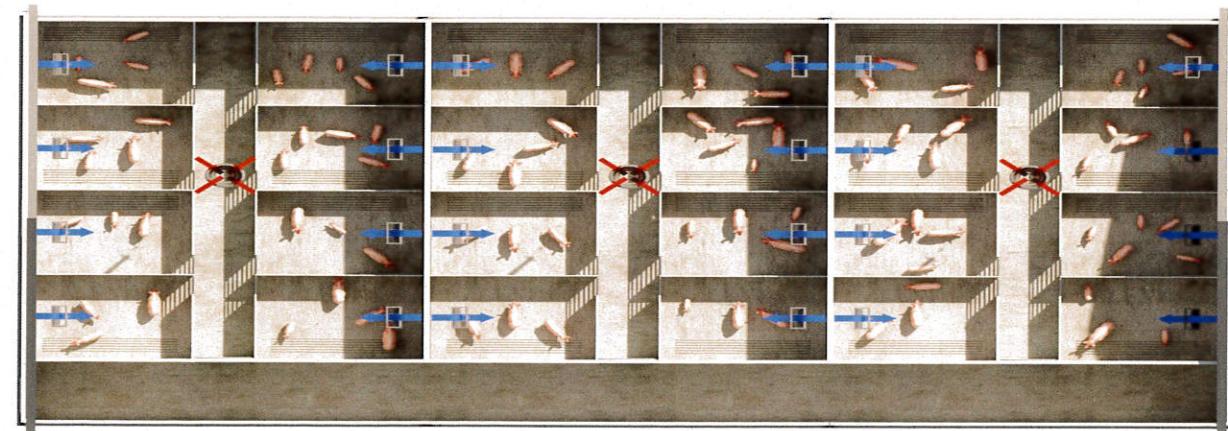
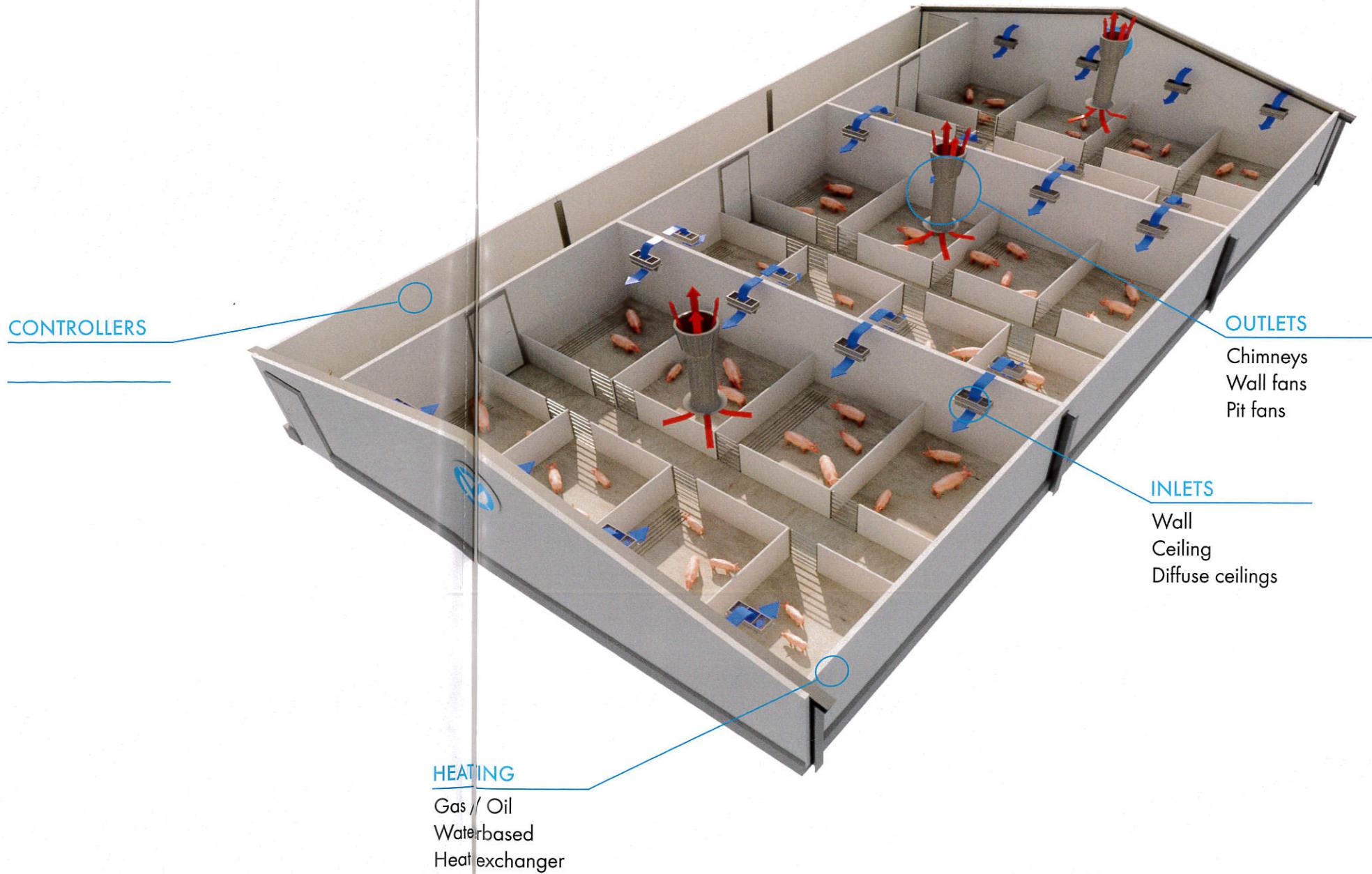
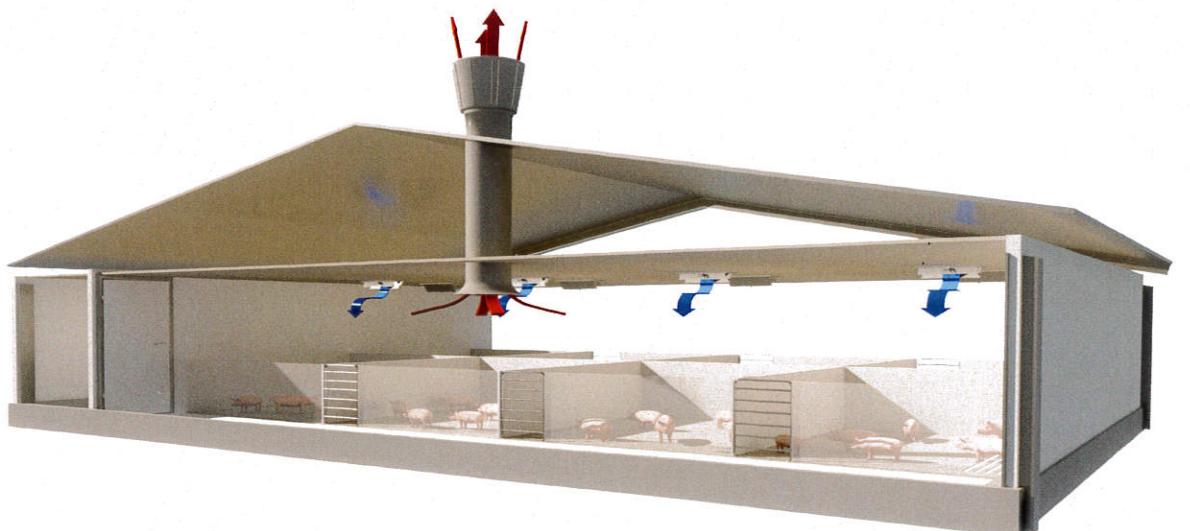


NOTES

COLD CLIMATE VENTILATION - MULTIPLE ROOM

Multiple room – range of products

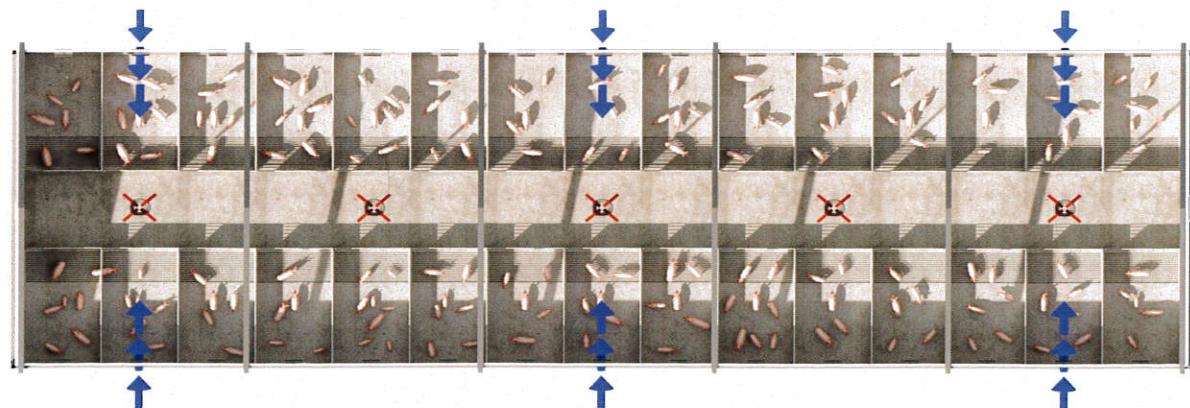
Buildings with multiple rooms are often ventilated through ceiling inlets and chimney exhaust fans. If ceiling inlets is not possible, an alternative is wall inlets or tunnel doors from the main corridor. In very cold climates ventilation through corridors make it possible to preheat incoming air in the corridor.



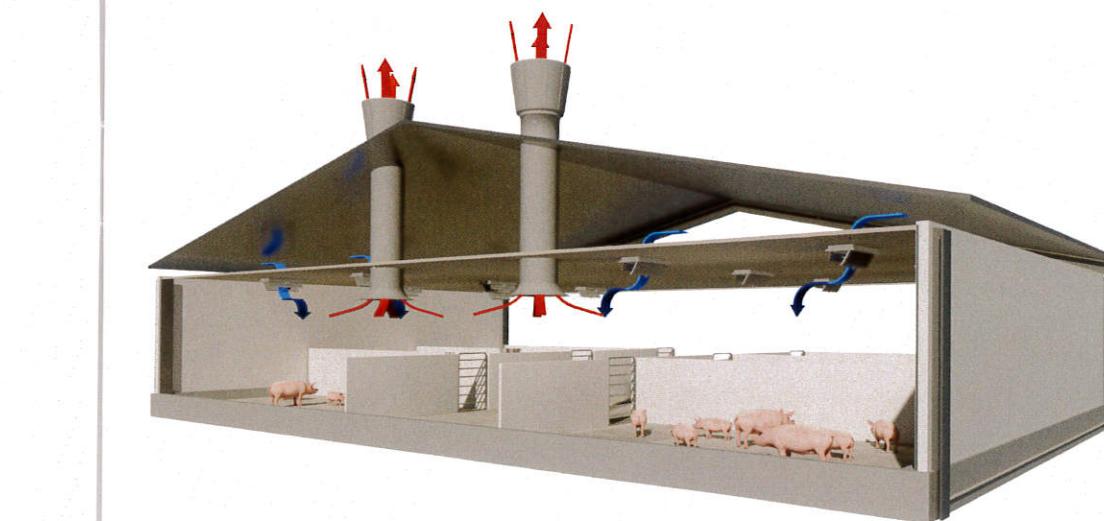
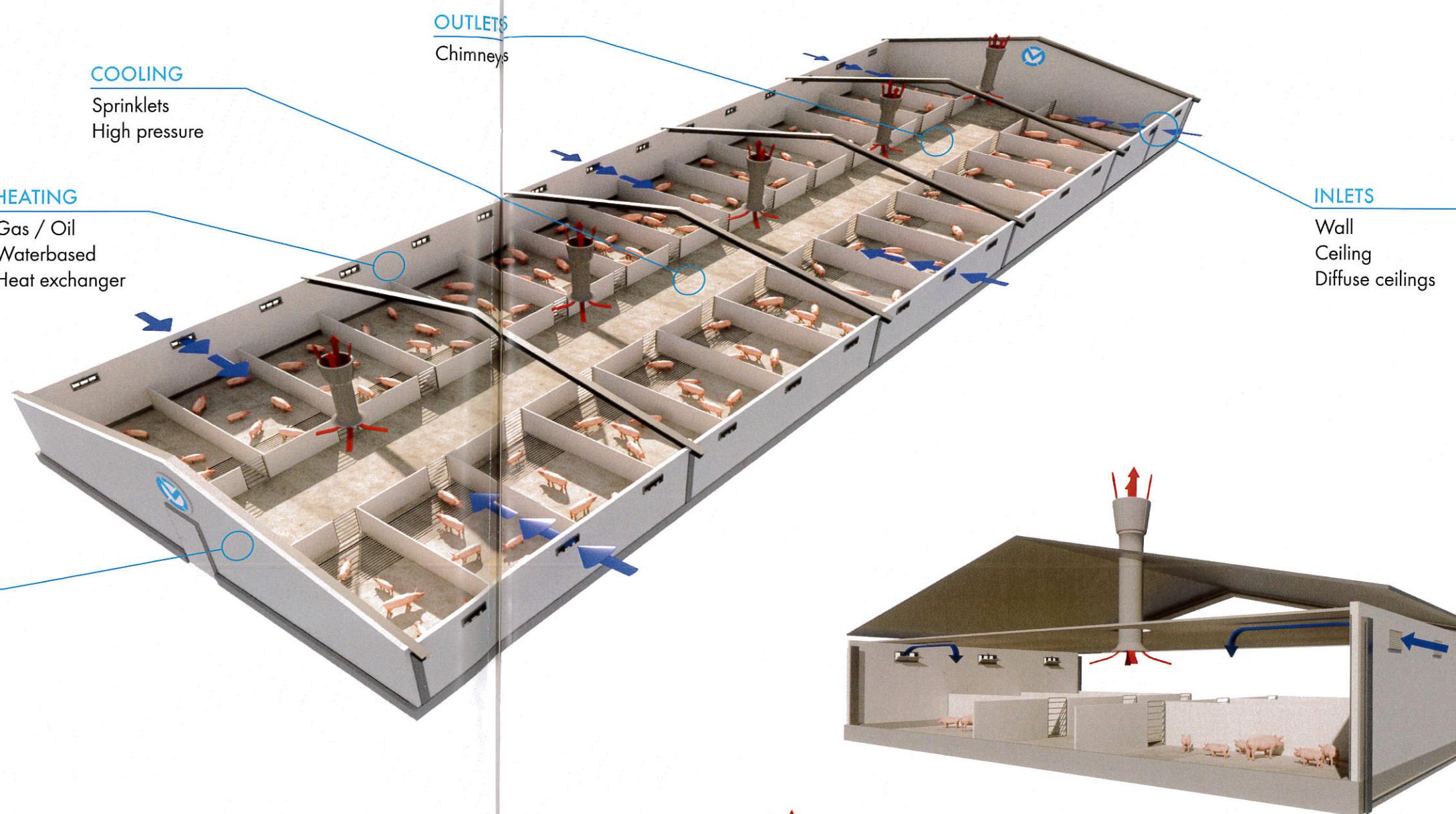
COLD CLIMATE VENTILATION - SINGLE ROOM

Single room – range of products

Single room buildings normally ventilated through wall inlets and chimney exhaust fans. If buildings are more than 24-28 meters wide, ceiling inlets is necessary to secure optimal climate in the centre of the building. Single room buildings in extreme cold climates benefits from a wide range of Munters products that secure the perfect climate an easy operation.



CONTROLLERS





Moderate and hot climate ventilation

As a rule of thumb, moderate and hot climate defined as environment where ambient temperature is within or above the animals comfort zone. In this climate, climate control remove excess heat, gasses and humidity from the animal zone. For additional cooling in periods with higher temperature, it also create air velocity amongst the animals, in most cases added with evaporative pad wall for cooling incoming air. In hot zones where ambient temperature never reaches below animals comfort zone, minimum ventilation using inlets or diffuse ceiling may only be nice to have but not necessarily need to have.

Main principles for air movement used in moderate and hot climate conditions are wall/ceiling air inlets for minimum ventilation, for maximum/funnel ventilation tunnel doors and evaporative cooling pads are used. Air exhaust normally done using gable fans in combination with smaller wall- or chimney fans for minimum ventilation.

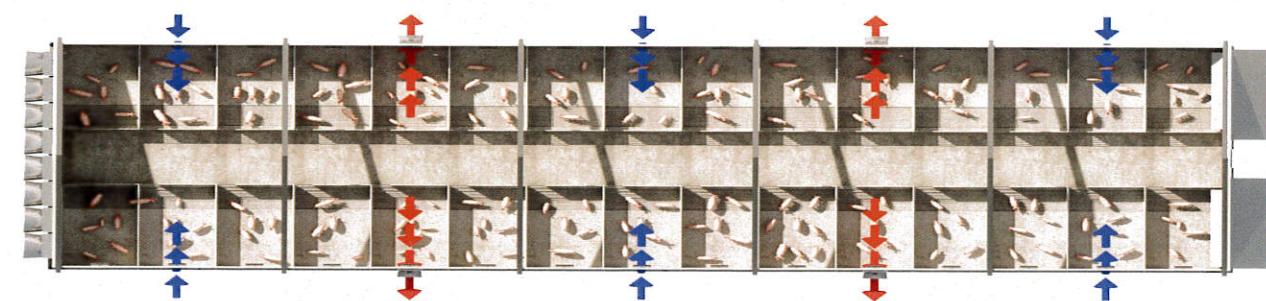
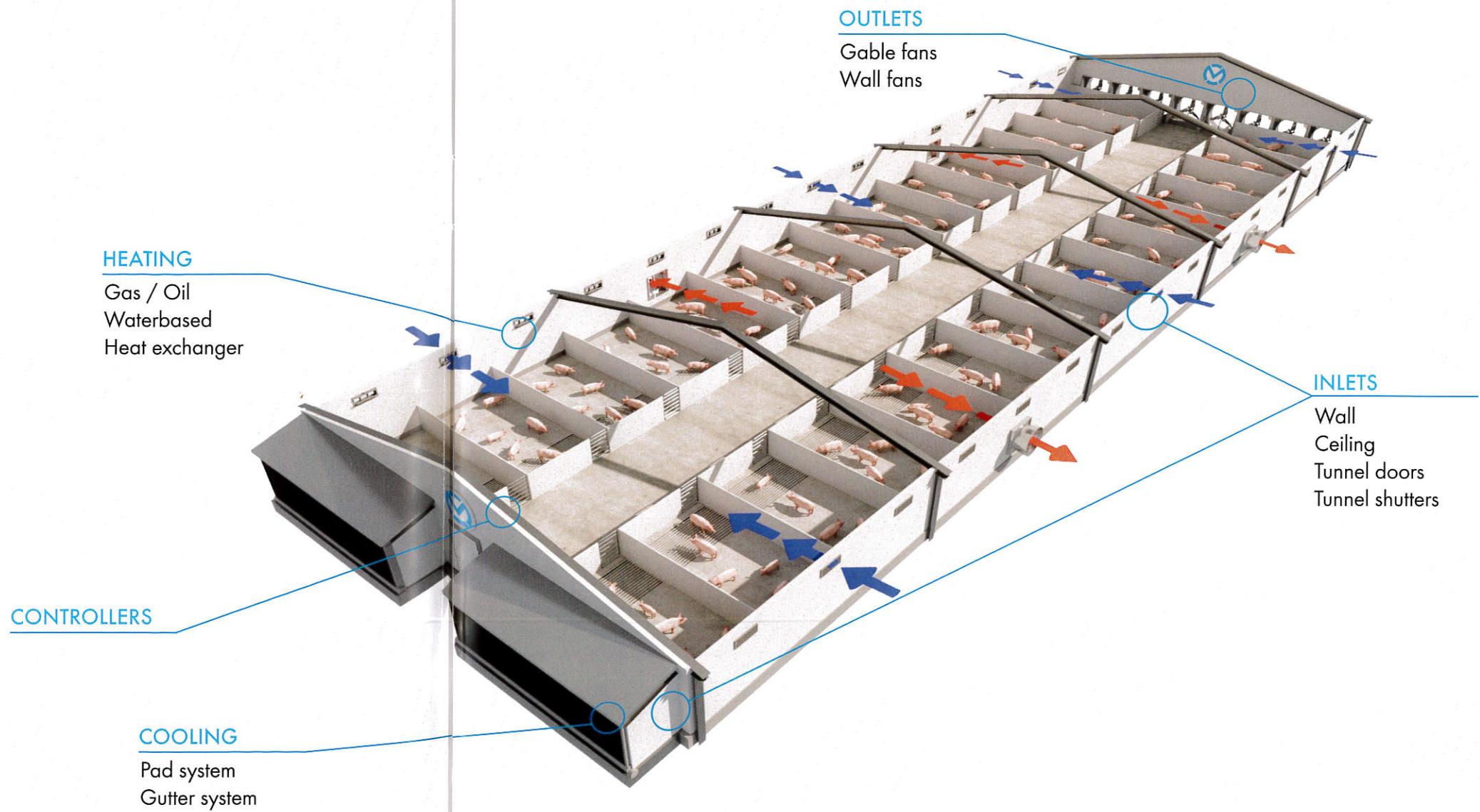
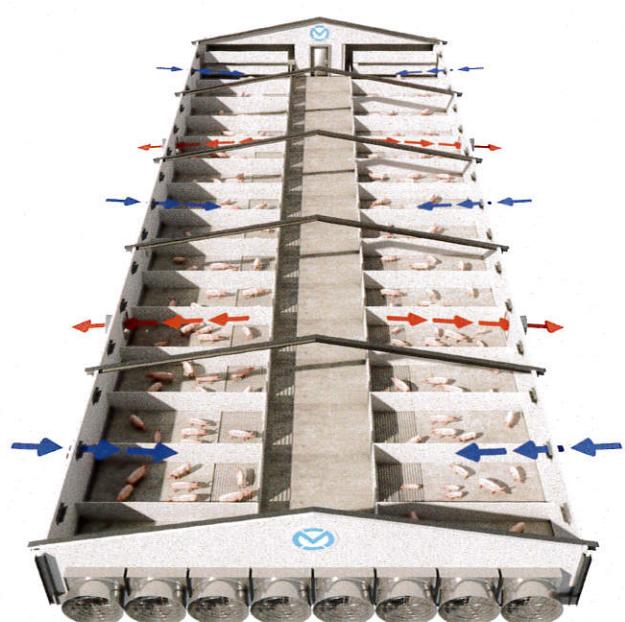
Munters has a full product list for these applications from air intake, air outlet, and complete cooling systems to controllers connecting into one system with remote alarm and access.

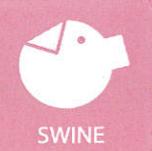


MODERATE AND HOT CLIMATE VENTILATION

Combi tunnel – range of products

System mainly used in moderate and hot climate, combines best practices from minimum ventilation in cold climate with high air velocity in tunnel mode. Popular in areas with hot summers and cold winters, but also suitable for areas with high deviations between day- and night temperature.





Tropical ventilation

As a rule of thumb, tropical climate defined as environment where ambient temperature is above the animals comfort zone. In this climate, climate control remove excess heat, gasses and humidity from the animal zone. For additional cooling in periods with higher temperature, it also create air velocity amongst the animals, in most cases added with evaporative pad wall for cooling incoming air.

Main principles for air movement used in tropical climate conditions are wall/ceiling air inlets for minimum ventilation, for maximum/tunnel ventilation tunnel doors and evaporative cooling pads are used. Air exhaust normally done using gable fans.

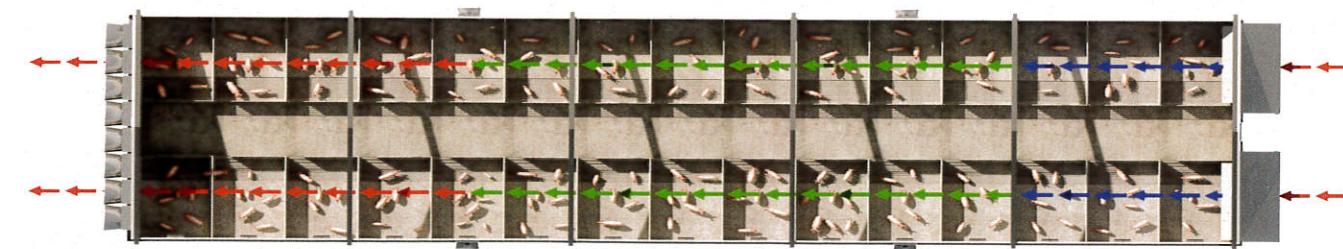
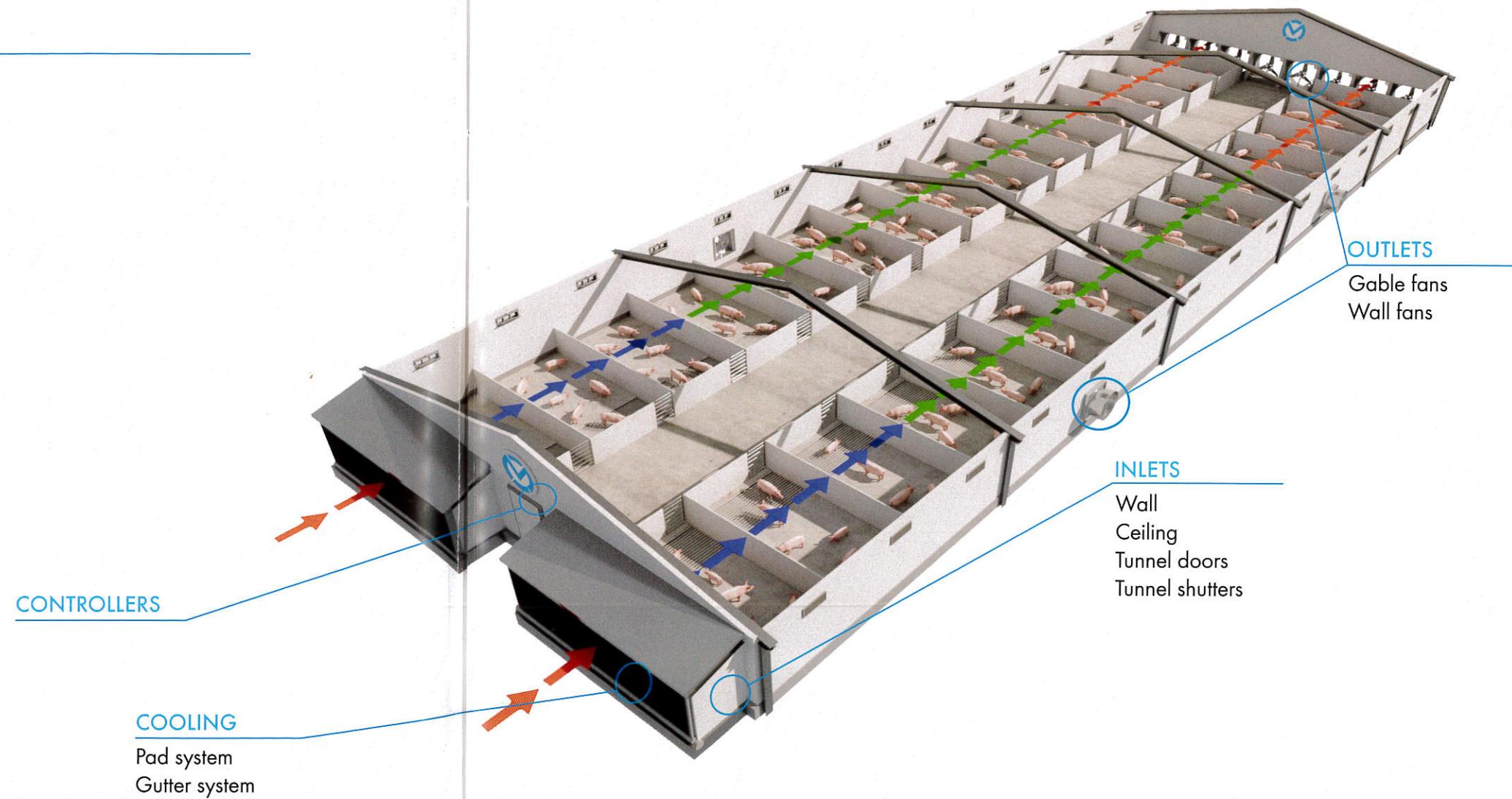
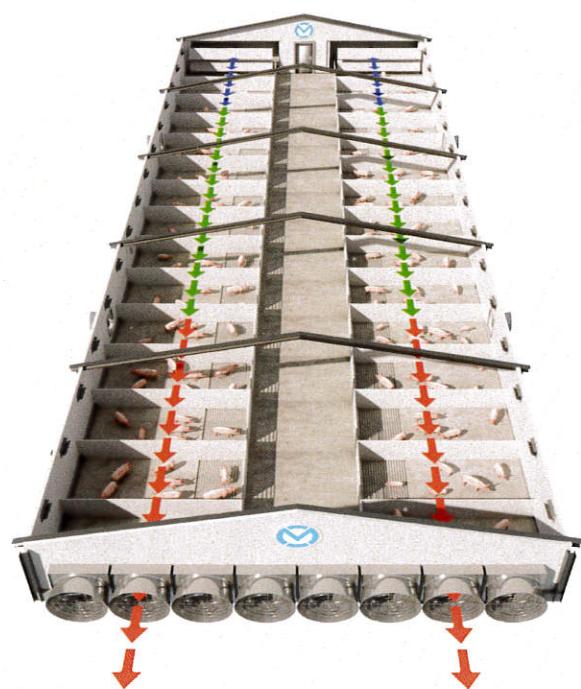
Munters has a full product list for these applications from air intake, air outlet, and complete cooling systems to controllers connecting into one system with remote alarm and access.



TROPICAL CLIMATE VENTILATION

Tunnel - range of products

System mainly used in hot climate where main objective is to cool down animals in all seasons. It is important that ambient temperature be above animals comfort temperature at all times. Focus on air velocity in combination with best available cooling practices.



EUROEMME® EMX50 WALL FAN



- Family member of the time proven Euroemme® fan range
- Housing, shutter blades and components made in Stainless Steel 304
- Venturi made of plastic
- Propeller is statically and dynamically balanced
- Patented centrifugal system permits an energy efficient solution
- Central hub and v-belt pulley are made from die-cast aluminium, with reinforced ribs for prolonged lifetime



PERFORMANCES

| | | | |
|------------------------------|----------------|-----------------|-----------------|
| Motor | | 1.0/1.2Hp | 1.5Hp |
| Airflow at 0 Pa | m³/h [cfm] | 37,000 [21,800] | 42,400 [25,000] |
| Airflow at 25 Pa | m³/h [cfm] | 32,500 [19,200] | 38,400 [22,600] |
| Airflow at 50 Pa | m³/h [cfm] | 26,200 [15,400] | 33,800 [19,900] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 33.9 [20.0] | 27.0 [15.9] |

* All values refer to 3 phases 50Hz single speed motors.
Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

LOADING VOLUMES

| | | ASSEMBLED | DISASSEMBLED |
|---------------------------|------|-----------|--------------|
| Container 20 ft | pcs. | 29 | 170 |
| Container 40 ft | pcs. | 58 | 250 |
| Container 40 ft HC | pcs. | 58 | 250 |
| Trailer 13.60x2.40x2.60 m | pcs. | 65 | 300 |

AIR EXTRACTION



EUROEMME® EM50 MPX WALL FAN



MUNTERS PROTECT
THE BARRIER AGAINST
CORROSION

- Family member of the time proven Euroemme® fan range
- Patented centrifugal system permits an energy efficient solution
- All housing components designed for improved corrosion resistance
- All meshes, bolts and nuts in stainless steel for improved corrosion resistance



PERFORMANCES

| | | | |
|------------------------------|----------------|-----------------|-----------------|
| Motor | | 1.0/1.2Hp | 1.5Hp |
| Airflow at 0 Pa | m³/h [cfm] | 37,000 [21,800] | 42,400 [25,000] |
| Airflow at 25 Pa | m³/h [cfm] | 32,500 [19,200] | 38,400 [22,600] |
| Airflow at 50 Pa | m³/h [cfm] | 26,200 [15,400] | 33,800 [19,900] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 33.9 [20.0] | 27.0 [15.9] |

* All values refer to 3 phases 50Hz single speed motors.
Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

LOADING VOLUMES

| | | ASSEMBLED | DISASSEMBLED |
|---------------------------|------|-----------|--------------|
| Container 20 ft | pcs. | 29 | 170 |
| Container 40 ft | pcs. | 58 | 250 |
| Container 40 ft HC | pcs. | 58 | 250 |
| Trailer 13.60x2.40x2.60 m | pcs. | 65 | 300 |

EUROEMME® EDX30HE - EDX36HE WALL FAN



- Family member of the time proven Euroemme® fan range
- High airflow capacity with excellent energy efficiency
- Housing, shutter blades and components made in Stainless Steel 304
- Venturi in steel, protected with epoxy coated paint
- Low power consumption
- Direct drive system



PERFORMANCES

| Model | EDX30HE | EDX36HE |
|------------------------------|----------------|----------------|
| Motor | 0.5Hp | 0.75Hp |
| Airflow at 0 Pa | m³/h [cfm] | 14,400 [8,460] |
| Airflow at 12 Pa | m³/h [cfm] | 13,700 [8,080] |
| Airflow at 25 Pa | m³/h [cfm] | 12,900 [7,620] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 22.1 [13.0] |

* All values refer to 3 phases 50Hz single speed motors.
Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

LOADING VOLUMES

| Model | ASSEMBLED | | DISASSEMBLED | |
|---------------------------|-----------|---------|--------------|---------|
| | EDX30HE | EDX36HE | EDX30HE | EDX36HE |
| Container 20 ft | pcs. | 72 | 54 | 180 |
| Container 40 ft | pcs. | 144 | 108 | 400 |
| Container 40 ft HC | pcs. | 144 | 108 | 400 |
| Trailer 13.60x2.40x2.60 m | pcs. | 168 | 120 | 400 |
| | | | | 360 |

EUROEMME® ED24HE MPX - ED30HE MPX - ED36HE MPX WALL FAN



- Family member of the time proven Euroemme® fan range
- High airflow capacity with excellent energy efficiency
- Direct drive system
- All housing components designed for improved corrosion resistance
- All bolts and nuts in stainless steel, the mesh powder coated for improved corrosion resistance



PERFORMANCES

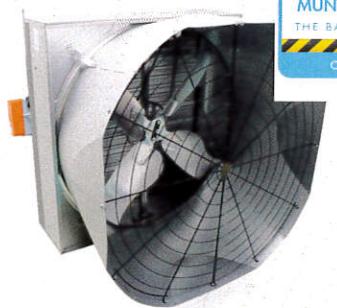
| Model | ED24HE MPX | ED30HE MPX | ED36HE MPX |
|------------------------------|----------------|---------------|----------------|
| Motor | 0.5Hp | 0.5Hp | 0.75Hp |
| Airflow at 0 Pa | m³/h [cfm] | 9,100 [5,360] | 14,400 [8,460] |
| Airflow at 12 Pa | m³/h [cfm] | 8,800 [5,180] | 13,700 [8,080] |
| Airflow at 25 Pa | m³/h [cfm] | 8,400 [4,960] | 12,900 [7,620] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 17.3 [10.2] | 22.1 [13.0] |

* All values refer to 3 phases 50Hz single speed motors.
Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

LOADING VOLUMES

| Model | ASSEMBLED | | DISASSEMBLED | |
|---------------------------|------------|------------|--------------|------------|
| | ED30HE MPX | ED36HE MPX | ED30HE MPX | ED36HE MPX |
| Container 20 ft | pcs. | 72 | 54 | 180 |
| Container 40 ft | pcs. | 144 | 108 | 400 |
| Container 40 ft HC | pcs. | 144 | 108 | 400 |
| Trailer 13.60x2.40x2.60 m | pcs. | 168 | 120 | 400 |
| | | | | 360 |

EC52 MUNTERS DRIVE MPX WALL FAN



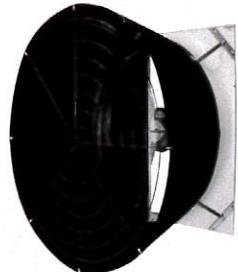
- Patented EC motor for excellent energy reduction over standard AC motors
- Maintenance free: no belts to tension or replace
- Soft start for eliminating energy spikes
- Variable speed for providing a wide range of air flow with excellent efficiency values
- Strong and efficient steel propeller, discharge cone for best achievements in performances and strength
- Shutter operated by gear motor: opening not linked to air flow or propeller spin
- Ideal fan for minimum ventilation applications



PERFORMANCES

| | 260 rpm | 370 rpm | 495 rpm |
|--|------------------|-----------------|-----------------|
| Number of blades | | | 4 |
| Propeller diameter | mm [inch] | | 1,335 [52] |
| Weight of fully equipped fan ¹ | [kg] | | 120 |
| Efficiency grade | | | 45.5 |
| Airflow at 0 Pa ³ | m³/h [cfm] | 28,500 [16,800] | 40,700 [24,000] |
| Airflow at 12 Pa ³ | m³/h [cfm] | 24,300 [14,300] | 37,700 [22,200] |
| Airflow at 25 Pa ³ | m³/h [cfm] | 15,200 [8,900] | 34,600 [20,400] |
| Specific performance at 12 Pa ³ | m³/h /W [cfm /W] | 81.2 [47.8] | 49.9 [29.4] |
| Specific performance at 25 Pa ³ | m³/h /W [cfm /W] | 48.0 [28.3] | 43.8 [25.8] |
| Max. operating temperature | °C [°F] | | 40 [104] |
| Max. operating pressure | Pa | | 50 |
| Electric motor winding insulation grade | | | B |

WM54F MUNTERS DRIVE WALL FAN



- Rigid and durable fiberglass housing
- Insulated and sealed damper door to reduce condensation, light and air leaks
- Polymer engineered UV protected cone and damper door
- Inlet guard mounts flush with inside of building framing, without needing an additional housing
- Variable speed, for minimum ventilation



PERFORMANCES

| Model | Speed max | MD max speed 600rpm | MD Max Efficiency speed |
|---|------------------|---------------------|-------------------------|
| Number of blades | | | 3 |
| Propeller diameter | mm [inch] | | 1,377 [54] |
| Weight of fully equipped fan ¹ | [kg] | | 165 |
| Airflow at 0 Pa ² | m³/h [cfm] | 225 | 57.100 [48.992] |
| Airflow at 25 Pa ² | m³/h [cfm] | 375 | 51.303 [44.018] |
| Airflow at 50 Pa ² | m³/h [cfm] | 550 | 44.680 [38.335] |
| Specific performance at 0 Pa ² | m³/h /W [cfm /W] | | 45,6 [26.84] |
| Max. operating temperature | °C [°F] | | 50 - derating |
| Nominal propeller speed | [rpm] | 60 | 600 |
| IEC protective class of electric motor | | | IP55 |
| Electric motor winding insulation grade | | | F |

¹ INCLUDES SAFETY KIT FOR INSTALLATION BELOW 2.7M ABOVE THE FLOOR.

² ALL DECLARED VALUES ARE MEASURED AND CERTIFIED BY BESS LAB (TEST #15631 AND #15632). AIRFLOW DATA ARE MEASURED AT STANDARD CONDITIONS (20°C, 1,013 HPA).

VX36 - VX51 WALL FAN



- Cast aluminum airfoil propeller
- UV resistant fiberglass housing
- Stainless steel hardware and fasteners
- High strength extruded aluminum struts
- High quality, Made in USA, pillow block greasable bearings
- Poly cone standard
- Greasable automotive style belt tensioner
- Three phase models compatible with variable frequency drives
- Optional premium efficiency motor
- Optional belled inlet shutter for added airflow



PERFORMANCES

| Model | VX36 | VX51 |
|-------------------------------|----------------|-----------------|
| Motor | 0.75Hp | 1.5Hp |
| Airflow at 0 Pa | m³/h [cfm] | 21,300 [12,540] |
| Airflow at 25 Pa | m³/h [cfm] | 18,500 [10,860] |
| Airflow at 50 Pa | m³/h [cfm] | 14,500 [8,520] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 25.4 [15.5] |
| Specific performance at 25 Pa | m³/h/W [cfm/W] | 23.0 [13.5] |
| Specific performance at 50 Pa | m³/h/W [cfm/W] | 20.1 [11.8] |

* All values refer to 3 phases 50Hz single speed motors.
Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

LOADING VOLUMES

| Model | DISASSEMBLED | |
|---------------------------|--------------|------|
| | VX36 | VX51 |
| Container 20 ft | pcs. | 40 |
| Container 40 ft | pcs. | 80 |
| Container 40 ft HC | pcs. | 86 |
| Trailer 13.60x2.40x2.60 m | pcs. | 94 |
| | | 54 |

VX18 - VX24 WALL FAN



- Extremely rugged and corrosion resistant fibreglass housing that maintains its shape and colour
- High impact resistant, flared discharge cone that is rotationally moulded and enhanced with patented technology
- Cast aluminium turbine blades featuring a stall-limiting design which prevents motor overload and increases airflow and efficiency
- Enhanced optional plastic belled inlet shutter
- Direct drive with high efficiency, variable speed motor



PERFORMANCES

| Model | VX18 | VX24 |
|-------------------------------|----------------|---------------|
| Motor | 0.33Hp | 0.33Hp |
| Airflow at 0 Pa | m³/h [cfm] | 7,600 [4,490] |
| Airflow at 25 Pa | m³/h [cfm] | 6,900 [4,080] |
| Airflow at 50 Pa | m³/h [cfm] | 5,800 [3,430] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 18.9 [11.1] |
| Specific performance at 25 Pa | m³/h/W [cfm/W] | 17.5 [10.8] |
| Specific performance at 50 Pa | m³/h/W [cfm/W] | 15.5 [9.5] |

* All values refer to 3 phases 50Hz single speed motors.
Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

LOADING VOLUMES

| Model | DISASSEMBLED | |
|---------------------------|--------------|------|
| | VX36 | VX51 |
| Container 20 ft | pcs. | 120 |
| Container 40 ft | pcs. | 250 |
| Container 40 ft HC | pcs. | 250 |
| Trailer 13.60x2.40x2.60 m | pcs. | 280 |
| | | 230 |

WX51-WX55 MUNTERS DRIVE WALL FAN



- Reduce fan energy costs up to 40%
- Maintenance FREE
 - No bearing maintenance
 - No belts to replace
- Reduce your carbon footprint
- Optional modes HE, HR, HO providing increased ventilation and savings
- Qualifies for energy rebates
- Patent Pending



PERFORMANCES

| Model | WX51 | |
|-------------------------------|----------------|-----------------|
| Motor | Munters Drive | |
| Airflow at 0 Pa | m³/h [cfm] | 48,100 [28,300] |
| Airflow at 25 Pa | m³/h [cfm] | 42,000 [24,700] |
| Airflow at 50 Pa | m³/h [cfm] | 33,800 [19,900] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 51.7 [30.4] |
| Specific performance at 25 Pa | m³/h/W [cfm/W] | 46.3 [27.2] |
| Specific performance at 50 Pa | m³/h/W [cfm/W] | 41.5 [24.8] |

* All values refer to 3 phases 50Hz single speed motors.

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

TU600 - TU800 CHIMNEY FAN



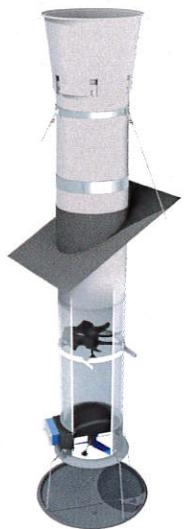
- Bell mouth inlet and cone outlet ensure very high energy efficiency
- Designed to withstand climatic extremes and solar radiation
- All components made of highly corrosion resistant materials
- Insulated butterfly damper for tight seal when fan is not in use
- Aerodynamic design ensures a low noise level
- Patented 'click system' allows for compact transport volumes and quick on-site assembly
- High efficiency Munters Drive motor version available on request



PERFORMANCES

| Model | TU600 | | TU800 | | |
|-------------------------------|----------------|----------------|----------------|-----------------|-----------------|
| Motor type | STD | MUNTERS DRIVE | STD | MUNTERS DRIVE | |
| Motor size | [W] | 250 | 660 | 370 | 430 |
| Voltage | [V] | 1 x 230 | 1 x 230 | 3 x 400 | 1 x 230 |
| Airflow at 0 Pa | m³/h [cfm] | 11,720 [6,898] | 12,729 [7,492] | 18,650 [10,977] | 19,820 [11,666] |
| Airflow at 20 Pa | m³/h [cfm] | 10,740 [6,321] | 12,090 [7,116] | 17,230 [10,141] | 18,290 [10,765] |
| Airflow at 40 Pa | m³/h [cfm] | 9,560 [5,627] | 11,414 [6,718] | 15,460 [9,099] | 16,730 [9,847] |
| Specific performance at 0 Pa | m³/h/W [cfm/W] | 27.5 [16.2] | 28.4 [16.7] | 31.7 [18.6] | 33.0 [19.4] |
| Specific performance at 20 Pa | m³/h/W [cfm/W] | 24.0 [14.1] | 24.9 [14.7] | 27.0 [15.9] | 27.0 [15.9] |
| Specific performance at 40 Pa | m³/h/W [cfm/W] | 20.1 [11.8] | 22.0 [13.0] | 23.0 [13.5] | 22.4 [13.2] |

EXHAUST AIR SYSTEM AGROFLEX CHIMNEY FAN



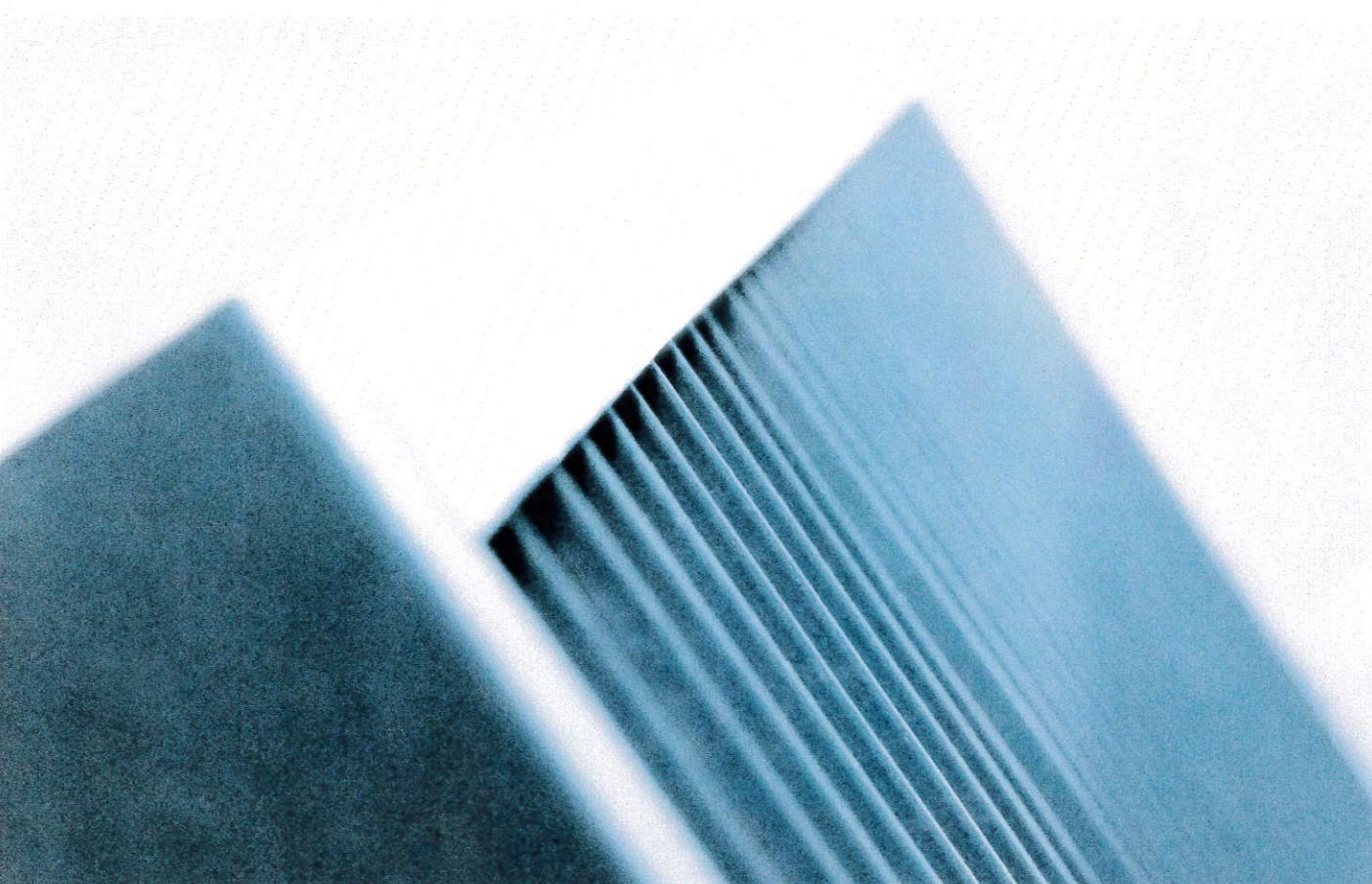
- Large selection of duct diameters from 370 to 1,270 mm
- Air capacity from 5,000 up to 52,000 m³/h (0 Pa)
- Sound reduction up to 5 dB(A), with the REVENTA® duct silencer up to 12
- Perfect insulation of 0.022W/mK to avoid condensation
- Covering layers made from reinforced polyester, chemical resistant and easy to clean
- Multiple dimensions, versions and accessories



PERFORMANCES

| Model | | M630 | | | M910 | | |
|-------------------------------|--------------------------------|------------|------------|--------------|------------|------------|------------|
| Motor type | | E630-FF-W6 | E630-FF-D6 | EC630-FF-W10 | E910-FF-W6 | E910-FF-D6 | E910-FN-D6 |
| Motor size | [W] | 520 | 540 | 920 | 940 | 920 | 1950 |
| Voltage | [V] | 1 x 230 | 3 x 400 | 1 x 230 | 1 x 230 | 3 x 400 | 1 x 230 |
| Airflow at 0 Pa | m ³ /h [cfm] | 13.900 | 14.200 | 16.000 | 25.300 | 26.100 | 28.400 |
| | | 8.181 | 8.358 | 9.417 | 14.891 | 15.362 | 16.716 |
| Airflow at 30 Pa | m ³ /h [cfm] | 12.400 | 12.500 | 14.800 | 22.000 | 23.100 | 26.300 |
| | | 7.298 | 7.357 | 8.711 | 12.949 | 13.596 | 15.480 |
| Airflow at 50 Pa | m ³ /h [cfm] | 10.500 | 10.600 | 13.700 | 18.600 | 20.700 | 24.700 |
| | | 6.180 | 6.239 | 8.064 | 10.948 | 12.184 | 14.538 |
| Specific performance at 0 Pa | m ³ /h/W [cfm/W] | 27,9 | 28,7 | 20,5 | 29,9 | 32,5 | 27,1 |
| | | 16,4 | 16,9 | 12,1 | 17,6 | 19,1 | 16,0 |
| Specific performance at 30 Pa | m ³ /h/W [cfm/W] | 24,3 | 24,9 | 17,8 | 24,4 | 26,5 | 22,2 |
| | | 14,3 | 14,6 | 10,5 | 14,4 | 15,6 | 13,1 |
| Specific performance at 50 Pa | m ³ /h/W [cfm/W] | 22,1 | 22,7 | 16,3 | 21,1 | 22,9 | 19,2 |
| | | 13,0 | 13,3 | 9,6 | 12,4 | 13,5 | 11,3 |

FAN INSULATION



FI36 - FI50 - FI52 INSULATION PANEL



- Reduced heat loss through fans during winter by up to 7 times
- Cost saving by reducing heating cost
- Quick and easy to install and mount
- Fits all Euroemme® extraction fans snugly
- Can be installed on air inlet or exhaust sides of fans
- Installation kits include all accessories required for installation
- Can be fitted onto other brands of exhaust fans with similar dimensions

DIMENSIONS

| Model | | FI36 | FI50 | FI52 |
|--------|------|-------|-------|-------|
| Length | [mm] | 1,092 | 1,382 | 1,430 |
| Height | [mm] | 1,092 | 1,382 | 1,430 |
| Width | [mm] | 35 | 35 | 40 |

ISOPANEL FOR WALL FANS INSULATION PANEL



- PUR part seals completely tight
- Good cleaning properties due to smooth surface
- Ease of handling due to practical carry handle
- Can be used in conjunction with a light filter
- Thermal conductivity 0.045 W/mK
- Can be fitted onto any 50" exhaust fan

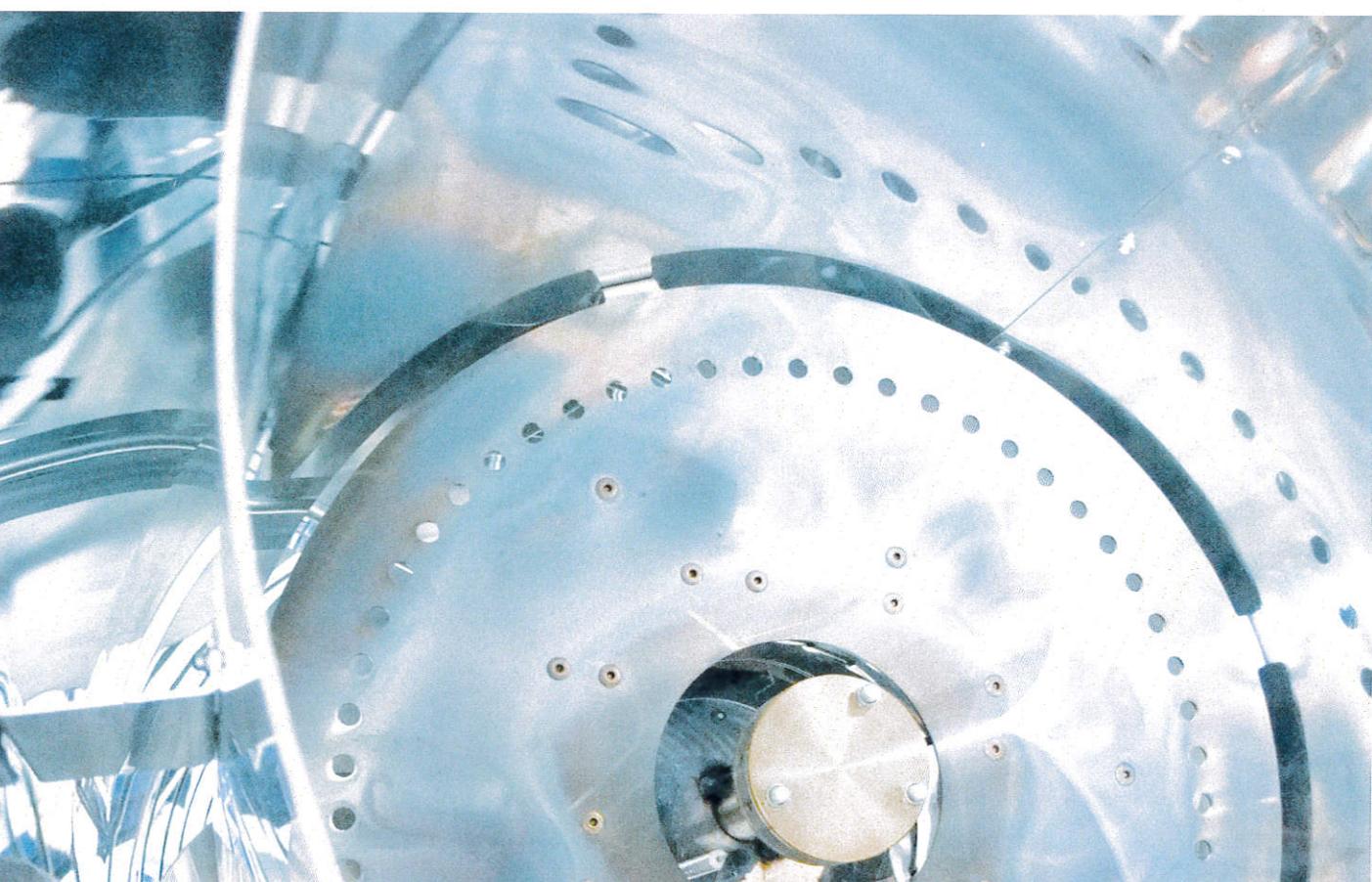
DIMENSIONS

1,380 x 1,380 x 40

SUITABLE FOR

50"-box fans

AIR HEATING



GA30 - GA95T AIR HEATER



- Direct fired - open combustion chamber
- Lean technology, versatile and easy to use
- Efficiency 100%, no losses in the system
- Functions on LPG at medium pressure (Bar)
- Fan heater entirely made of stainless steel
- Room thermostat or On/Off dry contact through an ILME plug socket (3P+G)
- Error proof design e.g. safety thermostat, ionization probe, double solenoid valves
- CE marked

PERFORMANCES

| Model | | GA30 | GA95T |
|------------------------------|----------------|------------------------------------|------------------|
| Heating power | kW [kcal/h] | 25.0 to 36.0 [21,500 to 30,960] | 97.0 [83,400] |
| Gas consumption propane gas* | [kg/h] | 1.75 to 2.51 | 6.90 |
| Fuel Gas Pressure | [Bar] | 0.7 | 2.0 |
| IP class** | | IP54 | IP54 |
| Electrical line | | 230V; 4.5A; 700W | |

* Density values refer to the standard ambient conditions.
** Electric box IP grade.

| Model | | GA30 | GA95T |
|---------------------------|------|------|-------|
| Container 20 ft | pcs. | 66 | 38 |
| Container 40 ft | pcs. | 138 | 80 |
| Container 40 ft HC | pcs. | 138 | 119 |
| Trailer 13.60x2.40x2.60 m | pcs. | 156 | 150 |

GFn85 AIR HEATER



- Indirect fire air heater
- Dedicated for Munters Agriculture applications
- Unique frame design for convenient handling, transportation and installation
- Ergonomic design for comfortable maintenance and full accessibility
- IP55 enclosure of critical components e.g. electrical control box, electric motor
- Predisposed 5 poles plug socket for farm controller or room thermostat connection
- Corrosion resistant as housing components are made in Munters Protect or stainless steel AISI 430 and combustion chamber made in stainless steel AISI 430
- Safe design with photoelectric flame monitoring and overheating thermostat (airflow switch not needed)
- Suitable for a wide variety of fuels i.e diesel oil (not bio-diesel) and winter diesel
- CE marked

PERFORMANCES

| | | |
|---------------------------|-------------|---------------|
| Maximum heating power | kW [kcal/h] | 80.6 [69.303] |
| Working heating power | kW [kcal/h] | 69.3 [59.587] |
| Diesel oil consumption | l/h [gal/h] | 7.5 [1.98] |
| Electric Power | W | 750 |
| Container 20 ft | pcs. | 48 |
| Container 40 ft | pcs. | 108 |
| Container 40 ft HC | pcs. | 108 |
| Trailer 13.60x2.40x2.60 m | pcs. | 120 |

»HEAT-X« TYPE H HEAT EXCHANGER



- Water-Air Heat Exchanger
- Resistant lamella - easy to clean
- Stainless steel pipe system
- Universal applicability: Horizontal and vertical air guidance Fan AAAAA
- Frame system and piping of stainless steel, lamellas of high resistant aluminium composition
- Very low power consumption (in comparison to competitors)
- Easy cleaning at end of the cycle due to optimum lamella spacing
- High pressure resistant fins
- Durable and energy efficient Fan

PERFORMANCES

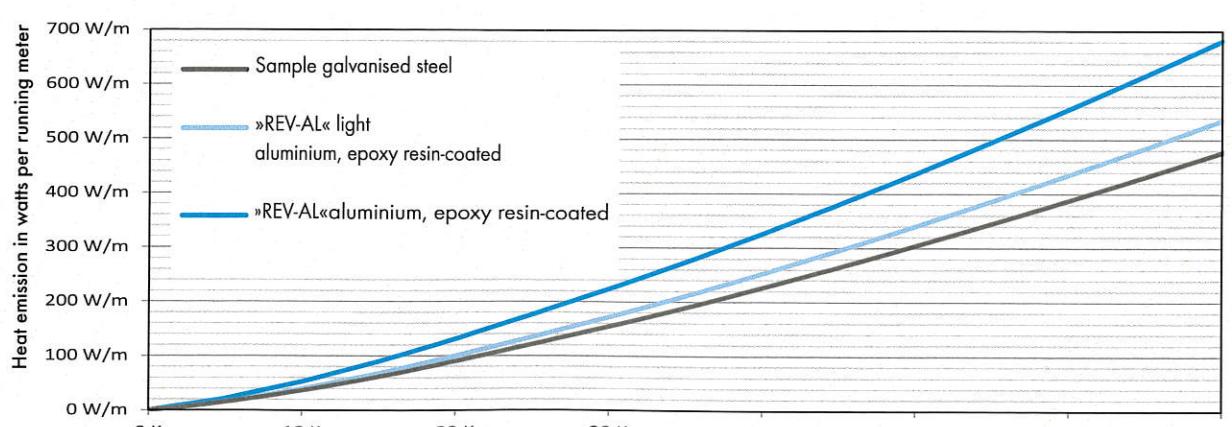
| Type H | Type 2 H | Type 3 H | Type 4 H |
|--|-------------------|------------------|-------------------------|
| Fan performance | 3,000 m³/h | 5,000 m³/h | 7,500 m³/h |
| Fan connected load | 400V; 0,75A; 350W | 400V; 1,1A; 530W | 400V; 1,25A; 630W |
| Heating medium supply / return temperature | 80/60 °C | 80/60 °C | 80/60 °C |
| Duct thread connection | 3/4" | 3/4" | 1" |
| Total weight incl. water | approx. 56 kg | approx. 74 kg | approx. 118 kg |
| Built-in fan type / ø | E450-ST-D4 / 450 | E500-ST-D4 / 500 | E630-FN-D6 / 630 |
| Throwing ranges* | approx. 30 m | approx. 45 m | approx. 55 m |
| Art. no. »blowing« / »sucking« 20°C | 281130 / 281100 | 281230 / 281200 | – / 281300 |
| Air intake / capacity | 20°C / ≈ 30 kW | 20°C / ≈ 50 kW | 20°C / ≈ 95 kW |
| Dimensions H x W x D in mm | 700 x 760 x 596 | 800 x 964 x 711 | 1,025** x 1,197 x 823 |
| Water pressure drop | 0.34 bar | 0.49 bar | 0.36 bar |
| Water flow | 1.34 m³/h | 2.15 m³/h | 4.11 m³/h |
| Art. no. »blowing« / »sucking« 30°C | 281130 / 281100 | 281230 / 281200 | – / 281300 |
| Air intake / capacity | 30°C / ≈ 25 kW | 30°C / ≈ 40 kW | 30°C / ≈ 75 kW |
| Dimensions H x W x D in mm | 700 x 760 x 766 | 800 x 964 x 996 | 1,025** x 1,197 x 1,095 |
| Water pressure drop | 0.24 bar | 0.34 bar | 0.25 bar |
| Water flow | 1.10 m³/h | 1.76 m³/h | 3.36 m³/h |

REV-AL AND REV-AL LIGHT FINNED TUBES HEAT EXCHANGER



- 30% performance increase
- up to 85% weight reduction (when comparing steel with aluminium)
- 100% easy installation by means of connection clamps
- High radiated power due to epoxy-coated surface
- Energy-saving, made of aluminium with high heat conduction
- Higher resistance against ammonia
- Optimised surface more watts per running metre

Heat emission of finned tubes



HEAT-X COMPACT HEAT EXCHANGER



- Water-Air Heat Exchanger
- Optimal preheating of the air in small rooms
- easy to handle and compact
- simple cleaning and maintenance operation
- stainless steel water piping
- plug-in couplings available as option

PERFORMANCES

| Type 1 H/C | Air intake / capacity 20°C | Fan performance m³/h | Heating medium supply/ return temperature |
|------------|-------------------------------|-------------------------|--|
| | ≈ 15 kW | 1,500 | 80/65 °C |

HEAT-X ROTATE HEAT RECOVERY SYSTEM



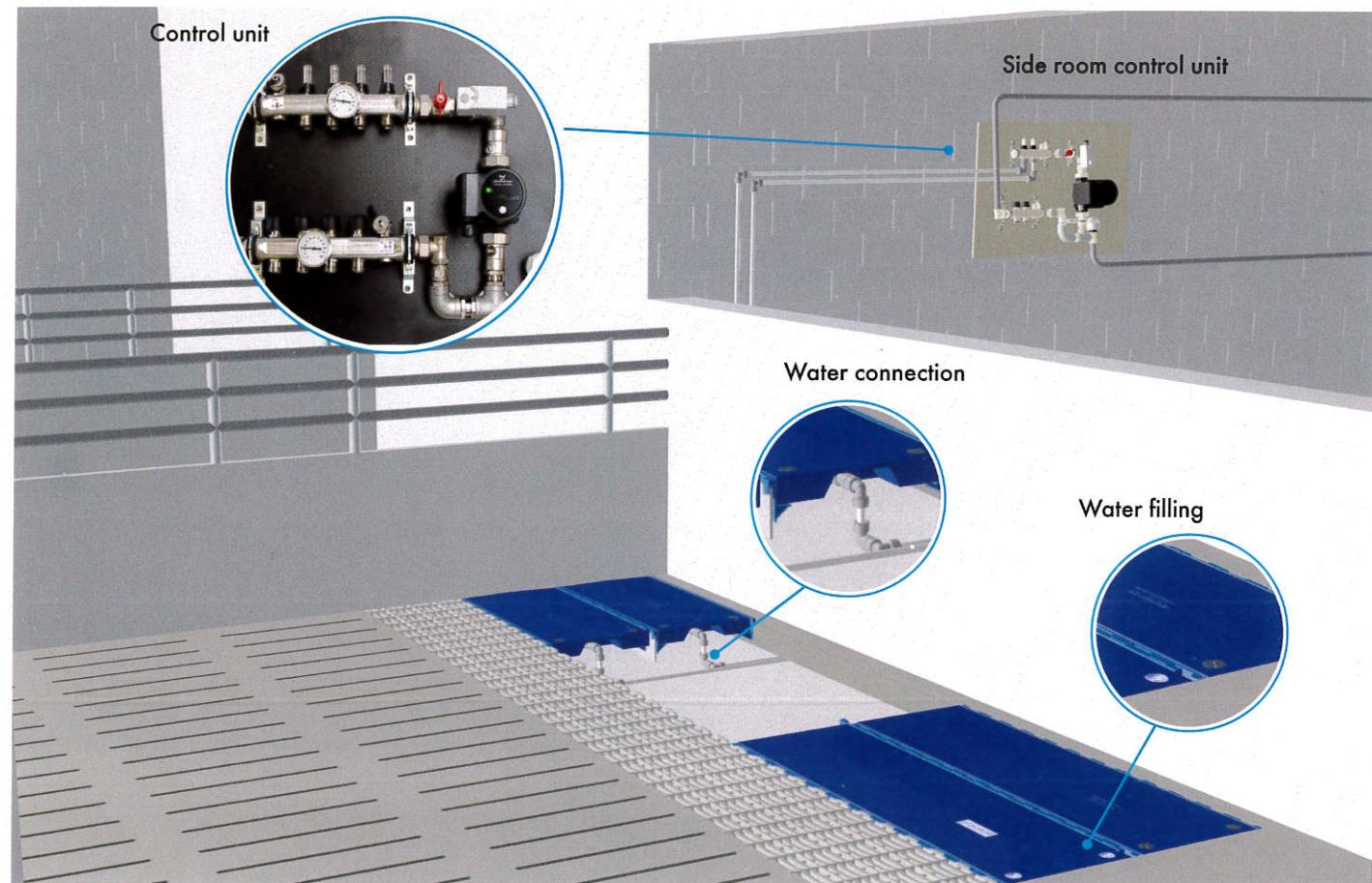
- Air Heat Exchanger
- No dust filtration required
- Low pressure loss in comparison to other heat exchangers in the poultry sector
- Fully automatic rotor cleaning
- Compact container construction, suitable for common lorry transports
- Almost no freezing issues
- Very high heat recovery Performance figures
- Storage mass with plastic coating to satisfy the highest corrosion protection requirements
- Adjustable recovery performance by modification of the speed
- EUROVENT-certified output DIN EN 13053

PERFORMANCES

| Type | | 10,000 | 20,000 |
|-----------------------------|---------------|---|---|
| Dimension Exchanger package | mm (inch) | 1,900 x 1,900 x 360 (74,8 x 74,8 x 14,2) | 2,500 x 2,500 x 390 (98,4 x 98,4 x 15,4) |
| Air flow | m³/h (cfm) | 10,000 5,900 | 20,000 11,800 |
| Efficiency | % | 65-85 % | 65-85% |

THERMOPLUS PIGLET NEST HEATING

- Easy to install and clean
- High laying comfort for piglets
- High heat storage capacity
- Available in 2 versions, electrical and water based heat source
- Low heat loss from backside
- Designed for high hygiene level
- Even heat distribution
- Complete additional water distribution system available



SMT24 - SMT30 - SMT36 - SMT50 MPX INLET SHUTTER



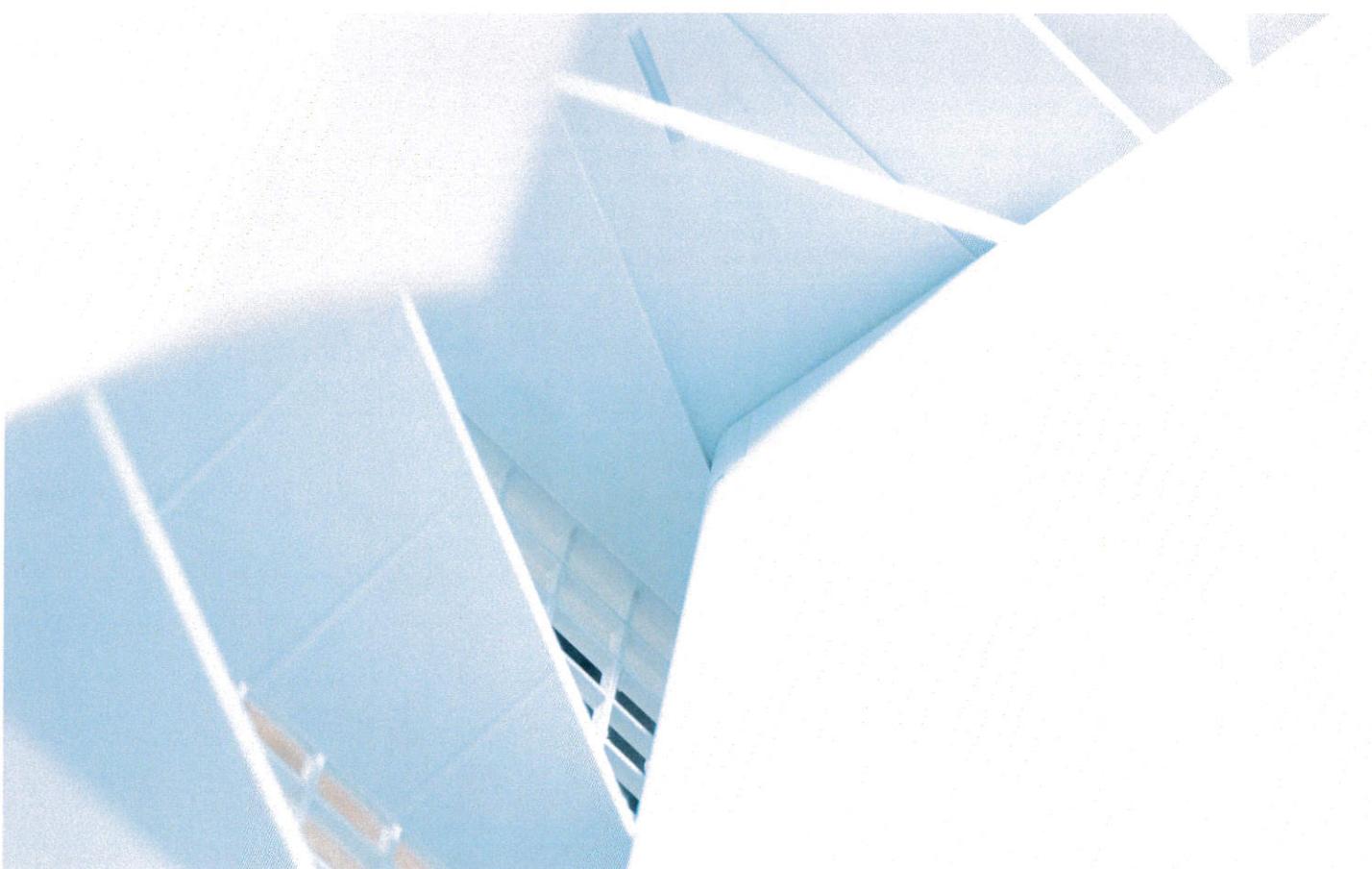
- Enhanced protection against corrosion
- Compact design and easy installation
- Actuators for individual control or controlling in groups
- Self cleaning shutter blade profile prevents the build-up of dust
- Tight sealing and durable shutter blades
- Optional guard mesh to prevent entry of wild animals or birds
- Munters Protect coated steel frame and shutter blades
- Maintenance free and UV resistant bearings for shutter blades

PERFORMANCES

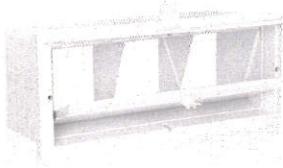
| Model | | SMT24 MPX | SMT30 MPX | SMT36 MPX | SMT50 MPX |
|------------------|-------------------|-----------|-----------|-----------|-----------|
| Airflow at 0 Pa | m ³ /h | 0 | 0 | 0 | 0 |
| Airflow at 20 Pa | m ³ /h | 6,754 | 11,642 | 14,331 | 27,090 |
| Airflow at 40 Pa | m ³ /h | 9,396 | 16,210 | 20,110 | 38,261 |
| Airflow at 60 Pa | m ³ /h | 11,463 | 19,656 | 244,91 | 46,346 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

AIR INLET



IW150 - IW250 WALL AIR INLET



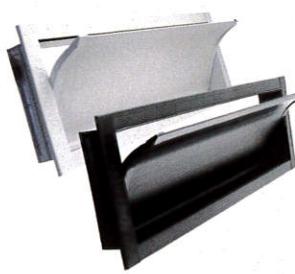
- Easy installation
- Manufactured in durable white UV stabilized polystyrene
- Main door moulded in two pieces preventing deformation
- Main door has an insulated core, preventing condensation on inside
- Integrated aluminium profiles in main door preventing warping
- Adjustable flap allowing fine adjustment of air flow patterns
- Rainstop preventing rain from entering the structure
- Integrated mesh in corrosion resistant polystyrene preventing wild animal entry
- Withstands cleaning with a high pressure cleaner and integrated pulley for support of cabling

PERFORMANCES

| Model | | IW150 | IW250 |
|-----------------|-------------------|-------|-------|
| Airflow at 10Pa | m ³ /h | 1,320 | 1,440 |
| Airflow at 20Pa | m ³ /h | 1,870 | 2,015 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

MWI WALL AIR INLET

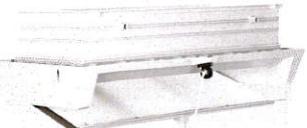


- Optimal flow of fresh air in the house, avoiding drafts and cold air drop on livestock
- Modular design featuring a perfect match between the size of inlet, house design and farmer needs
- Recessed curved door in the wall, properly channels the air jet along the ceiling and avoids air escape out the sides
- Packaging - unassembled 6pcs. per box, optimizes shipping volume and lowers freight cost
- Quick user-friendly assembly due to distinctive design, without added parts
- Hygienic-friendly due to the smart design and smooth surface finish
- Top quality durable PVC and PP materials, UV stabilized
- Air sealing gaskets at the top and sides to avoid air leakage in closed position
- Suitable for quick high pressure washing

PERFORMANCES

| Model | MWI 4413 W | MWI 4408 W | MWI 4113 W | MWI 4108 W | MWI 3413 W | MWI 3408 W |
|--------------------------|------------|------------|------------|------------|------------|------------|
| Wx H Inlet size* (cm) | 112 x 33 | 112 x 21 | 104 x 33 | 104 x 21 | 86 x 33 | 86 x 21 |
| Airflow at 10 Pa | 3597 | 2277 | 3316 | 2175 | 2742 | 1770 |
| Airflow at 20 Pa | 5026 | 3158 | 4716 | 3084 | 3830 | 2491 |
| Airflow at 30 Pa | 6155 | 3867 | 5721 | 3724 | 4671 | 3082 |

IL100 - IL200 - IL300 CEILING AIR INLET



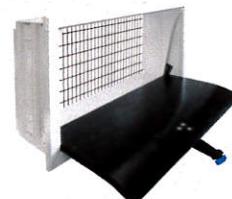
- Easy installation
- Manufactured in durable white UV stabilized polystyrene
- Different models with heights ranging from 100 to 200mm
- Main door moulded in 2 pieces preventing deformation
- Main door has an insulated core, preventing condensation on inside
- Integrated aluminium profiles prevent main door warping
- Main door has rubber seal on the sides for tight sealing
- Integrated eyelet for supporting of cabling
- Withstands cleaning with a high pressure cleaner

PERFORMANCES

| Model | | IL100 | IL200 | IL300 |
|------------------|-------------------|-------|-------|-------|
| Airflow at 10 Pa | m ³ /h | 1,320 | 1,440 | 1,415 |
| Airflow at 20 Pa | m ³ /h | 1,870 | 2,015 | 2,000 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

SAFE-LET® WALL AIR INLET



- 15% greater volumetric flow due to integrated intake nozzle
- All round sealing for optimum closure
- Minimal thermal losses and avoidance of condensate due to integrated flap
- Suitable frame extension for every wall thickness (125, 250, 375, 500 mm / 4.9, 9.8, 14.7, 19.7 inch)
- Optimum height for the double layer thickness of agrarian bricks

PERFORMANCES

| Model | SAFE LET® 600 a.o. | SAFE LET® 800 a.o. | SAFE LET® 1000 a.o. | SAFE LET® 1200 a.o. | SAFE LET® 600 a.c. | SAFE LET® 800 a.c. | SAFE LET® 1000 a.c. | SAFE LET® 1200 a.c. |
|-----------------|-----------------------|-----------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|------------------------|
| Airflow at 10Pa | 2,900 | 3,800 | 4,700 | 5,500 | 2,900 | 3,800 | 4,700 | 5,500 |
| Airflow at 20Pa | 4,200 | 5,500 | 6,700 | 7,900 | 4,200 | 5,500 | 6,700 | 7,900 |
| Airflow at 30Pa | 5,200 | 6,800 | 8,300 | 9,700 | 5,200 | 6,800 | 8,300 | 9,700 |
| Load (N) | 35 | 40 | 45 | 50 | 85 | 80 | 75 | 70 |
| Stroke way (mm) | 630 | 630 | 630 | 630 | 280 | 280 | 280 | 280 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

The inlet is suitable for electric motors: V5, V7

a.o. = automatic opening; a.c. = automatic closing; N = pulling force (already includes a deflector)

ZEW PROFESSIONAL WALL AIR INLET



- Significantly reduces the formation of ice even at extreme external temperatures
- Reduces energy costs massively by forgoing forced ventilation
- Spreads the temperature uniformly inside the stable, as the minimum air rate can be geared solely to the requirements of the animals
- The air conduction sheet can be adjusted in every position due to a special latching guide
- Transport and installation safeguard for the shutters integrated into the air conduction sheet
- Winter and summer position easy to set due to corresponding symbols on the inlet
- To avoid condensation/icng, two sealing lips are mounted on the shutter base

PERFORMANCES

| Model | ZEW Prof. 1300 | ZEW Prof. 2100 | ZEW Prof. 2900 |
|----------------------------|----------------|----------------|----------------|
| Airflow at 10 Pa (m³/h) | 1,300 | 2,100 | 2,800 |
| Airflow at 20 Pa (m³/h) | 1,900 | 3,000 | 4,000 |
| Airflow at 30 Pa (m³/h) | 2,400 | 3,800 | 5,000 |
| Load (N) | a.o. | 35 | 35 |
| | a.c. | 55 | 55 |
| Stroke way (mm) | a.o. | 390 | 535 |
| | a.c. | 460 | 480 |

Note: a.o. automatic opening
a.c. automatically closing

ZEW WALL AIR INLET



- Fine dosing and an almost waste-free supply of fresh air
- Good mechanical characteristics
- Circumferential bearing surface for
 - optimal closing of the fresh air inlet
- Robust design
- High insulation value
- Practical rope fastener
- ZEW-M:
 - With differentiated,
 - two-part air guidance

PERFORMANCES

| Model | ZEW 1500-M* | ZEW 2500 | ZEW 5000 |
|----------------------------|-------------|----------|----------|
| Airflow at 10 Pa (m³/h) | 1,500 | 2,500 | 3,900 |
| Airflow at 20 Pa (m³/h) | 2,100 | 3,500 | 5,400 |
| Airflow at 30 Pa (m³/h) | 2,600 | 4,300 | 6,600 |
| Load (N) | 20 | 30 | 35 |
| Stroke way (mm) | 520 | 450 | 400 |

* with differentiated, two-part air flow are for integration into walls

AIRSTEP® 5000 MULTI WALL AIR INLET



- Optimal solution for tunnel ventilation
- High insulation value due to integrated insulation
- Optimum closing and good sealing
- Prevention of thermal losses
- Optional inflow of large air flows
- Reduction of condensation
- Robust, easy to clean design

PERFORMANCES

| Model | AIRSTEP® 5000/2 a.o. | AIRSTEP® 5000/3 a.o. | AIRSTEP® 5000/4 a.o. | AIRSTEP® 5000/5 a.o. | AIRSTEP® 5000/2 a.c. | AIRSTEP® 5000/3 a.c. | AIRSTEP® 5000/4 a.c. | AIRSTEP® 5000/5 a.c. |
|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Airflow at 10Pa (m³/h) | 6,800 | 10,100 | 13,400 | 17,000 | 6,800 | 10,100 | 13,400 | 17,000 |
| Airflow at 20Pa (m³/h) | 9,100 | 13,900 | 18,800 | 23,800 | 9,100 | 13,900 | 18,800 | 23,800 |
| Airflow at 30Pa (m³/h) | 11,200 | 17,100 | 23,000 | 29,000 | 11,200 | 17,100 | 23,000 | 29,000 |
| Load (N) | 80 | 120 | 160 | 200 | 60 | 90 | 120 | 150 |
| Stroke way (mm) | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

ZED 1800/1800 DOUBLE FRESH AIR CEILING INLET



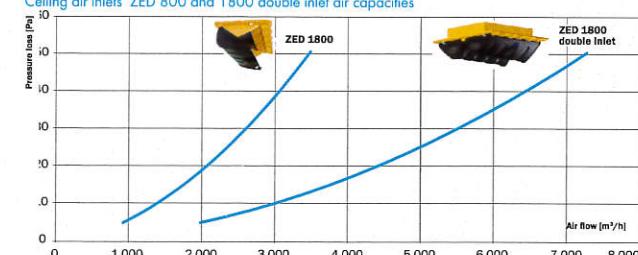
- Optimised flap contour with new lateral screening
- Highly output air velocity
- Good mechanical characteristics
- High insulation value

PERFORMANCES

| Model | ZED 1800 a.o. | ZED 1800 a.c. | ZED 1800 a.o. Double inlet | ZED 1800 a.c. double inlet |
|------------------------|---------------|---------------|----------------------------|----------------------------|
| Airflow at 10Pa (m³/h) | 1,400 | 1,400 | 3,000 | 3,000 |
| Airflow at 20Pa (m³/h) | 2,100 | 2,100 | 4,000 | 4,000 |
| Airflow at 30Pa (m³/h) | 2,700 | 2,700 | 5,500 | 5,500 |
| Load (N) | 25 | 65 | 2 X 25 | 2 X 25 |
| Stroke way (mm) | 330 | 330 | 330 | 330 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)

Ceiling air inlets ZED 800 and 1800 double inlet air capacities



ZED 5000 FRESH AIR CEILING INLET

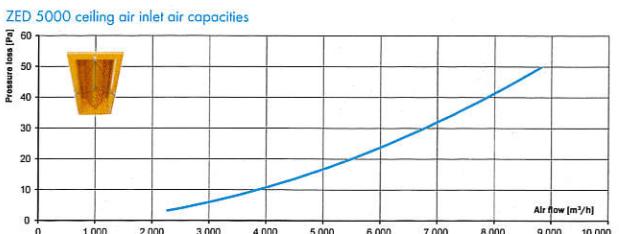


- High insulation value
- Optimum closing and good seal
- Easy to clean

PERFORMANCES

| Model | ZED 5000 a.o. | ZED 5000 a.c. |
|-----------------|---------------------|---------------|
| Airflow at 10Pa | (m ³ /h) | 3,800 |
| Airflow at 20Pa | (m ³ /h) | 5,500 |
| Airflow at 30Pa | (m ³ /h) | 6,800 |
| Load | (N) | 40 |
| Stroke way | (mm) | 140 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa)



IS600 - IS800 CEILING/ROOF AIR INLET



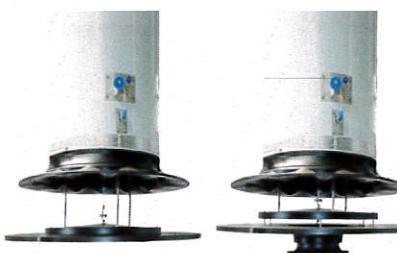
- Reduced shipping volumes and easy installation
- Different models for adaptation to most buildings. Multiflex roof flashing for fitting to any slope between 12 and 25 degrees.
- Two available diameters, 600mm and 800mm and option for use without the top section to draw air from the loft space
- Integral wire mesh preventing wild animal entry
- Solid top cover and slots at the bottom of the cone ensure rainwater protection
- Patented 'Star diffuser' system ensures correct quantity and direction of incoming air
- Air circulator to be placed under the diffuser available as accessory
- Manufactured in durable white or black smooth and anti-sailing polyethylene
- Withstands cleaning with high pressure cleaner

PERFORMANCES

| Model | IS600 | IS800 | IS600 | IS800 |
|-------------------|-------------------|-------|----------|-------|
| | | | WITH CAP | |
| Airflow at -10 Pa | m ³ /h | 3,357 | 5,843 | 3,647 |
| Airflow at -20 Pa | m ³ /h | 4,720 | 8,414 | 5,142 |
| Airflow at -30 Pa | m ³ /h | 5,770 | 10,285 | 6,500 |

Note: airflow data are measured at standard conditions (20°C, 1,013hPa) No light and less than 5% ventilation reduction for IS Air Inlet.

ZLV NEO CEILING/ROOF AIR INLET



- Flexible system for every type of stable and livestock quantities in diameters of Ø 650, 730, 820, 920 mm
- Ultra-fine fresh air distribution over a large distribution radius, also with minimal air flow rates
- Optimisation of the horizontal dispersion behaviour (greater throwing ranges)
- Danger of icing at outside temperatures down to -20°C considerably reduced
- All components made from thermally-insulated polyurethane

PERFORMANCES

| Internal diameter Ø | (mm) | 650 | 730 | 820 | 920 |
|-------------------------------------|---------------------|--------|--------|--------|--------|
| Airflow at 10Pa | (m ³ /h) | 4,900 | 6,100 | 7,500 | 9,200 |
| Airflow at 20Pa | (m ³ /h) | 6,900 | 8,800 | 10,900 | 13,500 |
| Airflow at 30Pa | (m ³ /h) | 8,500 | 10,900 | 13,500 | 16,900 |
| Airflow at 40Pa | (m ³ /h) | 10,000 | 12,700 | 15,600 | 19,500 |
| Load | (N) | 240 | 260 | 270 | 300 |
| Stroke way | (mm) | 400 | 400 | 400 | 400 |
| Air flow Equal pressure ventilation | (m ³ /h) | 10,500 | 15,300 | 20,300 | 20,800 |

ZLV VARIO CEILING/ROOF AIR INLET



- Flexible system for every type of stable and number of animals in diameters of Ø 650, 730, 820, 920 mm
- Ultra-fine fresh air distribution across a large distribution radius, also with minimal air flow rates
- Danger of icing also at extreme outside temperatures down to -50°C considerably reduced
- Winter, transitional and summer operation switch automatically (can be set centralised or decentralised)
- Complete closing of the recirculation gap, thereby increasing maximum fresh air capacity
- All components made from thermally-insulated polyurethane

PERFORMANCES

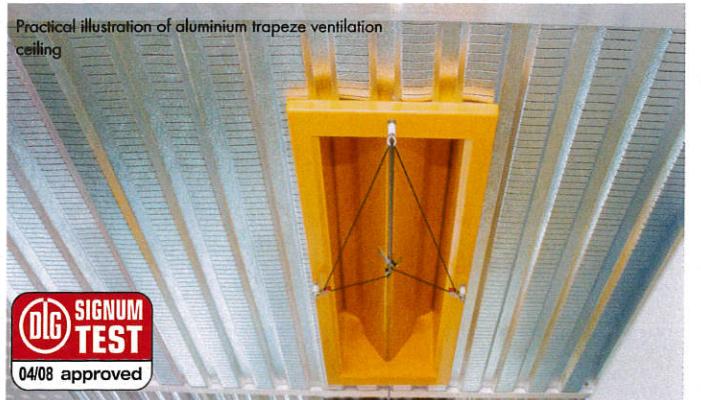
| Internal diameter Ø | (mm) | 650 | 730 | 820 | 920 |
|-------------------------------------|---------------------|--------|--------|--------|--------|
| Load | (N) | 300 | 360 | 410 | 460 |
| Stroke way | (mm) | 350 | 350 | 350 | 350 |
| Air flow Equal pressure ventilation | (m ³ /h) | 10,500 | 15,300 | 20,300 | 20,800 |

GRP OR ALUMINIUM TRAPEZE CEILINGS

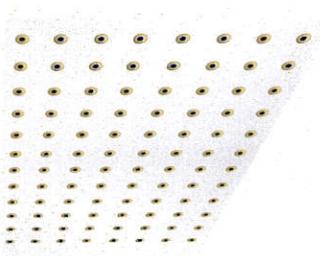


GRP trapeze ventilation ceiling with approx. 3 mm wide slots

- The risk of draughts is minimised
- Individual perforation, depending on the number of animals
- Preassembled side sections for ease of assembly



OPTIAIR DUCT BUILDING PANELS VENTILATION CEILINGS

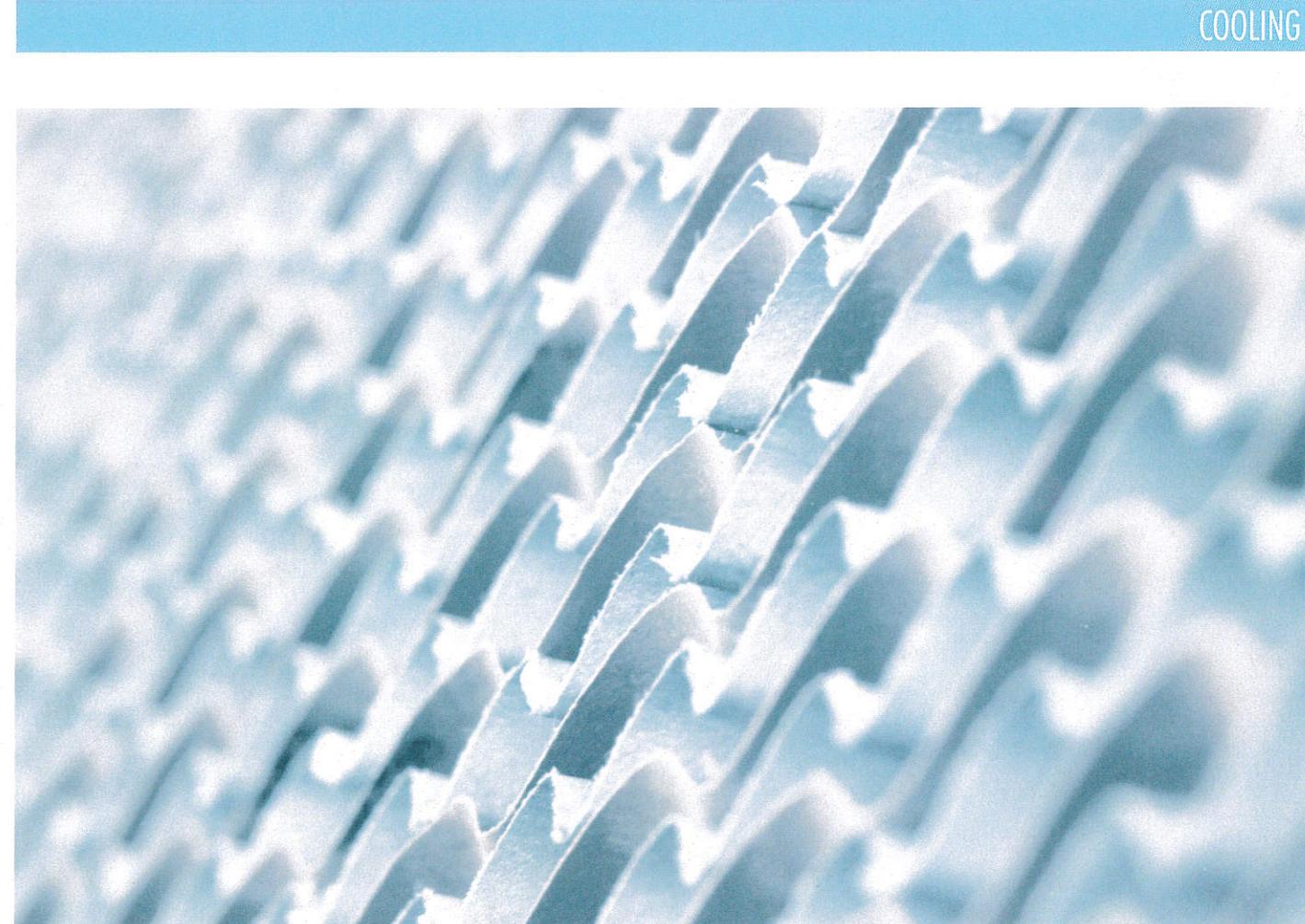
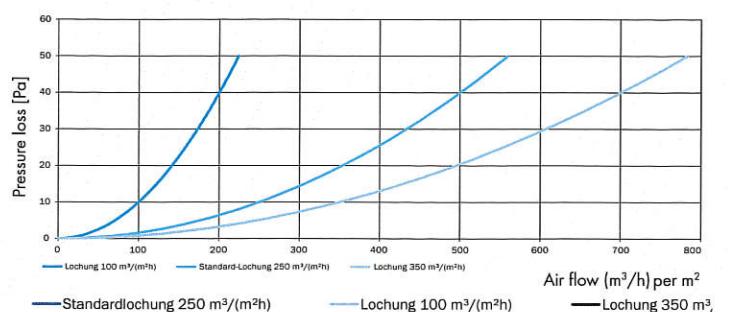


OPTIAIR® partially perforated ventilation ceiling

- Very low air velocity without draughts
- Easy to clean due to the smooth surface
- Easy to assemble
- Fresh air is preheated in winter
- Various thicknesses for different span widths, special lengths on inquiry
- DLG-tested system (DLG test report 5345)

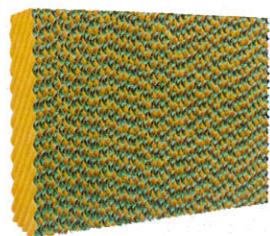


OPTIAIR® air capacities



COOLING

CELdek® 7090-15 COOLING PAD



- Since 1950s, the original cooling pad
- Environmentally friendly with consistent high quality worldwide
- Ideal for short to medium length installations. Due to low pressure drop the air goes through the pad without significant resistance and operating costs (CELdek 7090-100mm at 1.5m/s and 20Pa Press.Drop)
- Ideal for applications located in low humidity areas
- Excellent cooling efficiency due to the unique design, manufacturing methods and materials used (CELdek 7090-100mm at 1.5m/s and 73% sat.eff.)
- High face velocity allows the air to travel through the pad without water droplet carryover
- Self-cleaning design due to steeper angle of unequal flute design, flushing dirt and debris from the surface of the pad
- Easy maintenance as it can be performed while system is still operating

STANDARD DIMENSIONS

| | mm | 600 | | | | |
|--------------------------------|----|-------------|-------|-------|-------|-------|
| Length | | 1,000 | 1,200 | 1,500 | 1,800 | 2,000 |
| Height | | | | | | |
| Width | | 100/150/200 | | | | |
| DISTRIBUTION PAD CELdek® 70120 | | | | | | |
| Length | | 600 | | | | |
| Height | | 30 | | | | |
| Width | | 100/150/200 | | | | |

CELdek® WITH MI-T-edg® COATING COOLING PAD



- Since 1990s, the original coating of CELdek cooling pads
- Increased lifetime and durability of the pad
- Enhanced UV protection of the pad exposed to sunlight
- Protection against algae growth due to better drying
- Creates a ridged surface offering protection when using soft brush to clean the pad to avoid scale build-up
- Increased robustness, preventing or decreasing bowing effect of the pads
- Environmentally friendly with consistent high quality worldwide

STANDARD DIMENSIONS

| Length | mm | 600 | | | | |
|--------------------------------|----|-------------|-------|-------|-------|-------|
| Height | mm | 1,000 | 1,200 | 1,500 | 1,800 | 2,000 |
| Width | mm | 100/150/200 | | | | |
| DISTRIBUTION PAD CELdek® 70120 | | | | | | |
| Length | | 600 | | | | |
| Height | | 30 | | | | |
| Width | | 100/150/200 | | | | |

CELdek® 7060-15 COOLING PAD

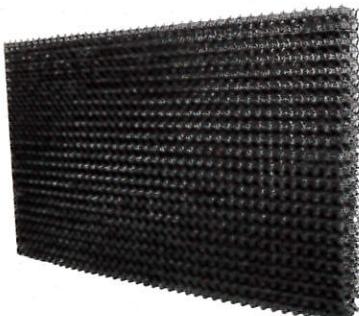


- Since 1950s, the original cooling pad
- Environmentally friendly with consistent high quality worldwide
- Ideal for long installations. Due to low pressure drop that allows high air speed across the pad without significant resistance and operating costs (CELdek 7060-150mm at 2m/s and 23Pa Press.Drop)
- Ideal for applications located in high humidity areas
- Ideal for applications with low pressure drops
- Excellent cooling efficiency due to the unique design, manufacturing methods and materials used (CELdek 7060-150mm at 2m/s and 73% sat.eff.)
- High face velocity allows the air to travel through the pad without water droplet carryover
- Self-cleaning design due to steeper angle of unequal flute design, flushing dirt from the surface of the pad
- Easy maintenance as it can be performed while system is still operating

STANDARD DIMENSIONS

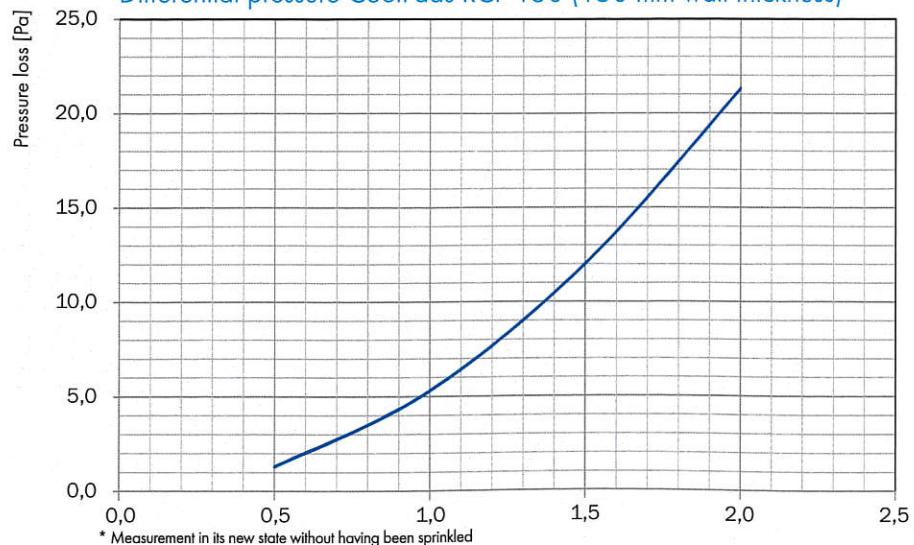
| | mm | 600 | | | | |
|--------------------------------|----|-------------|-------|-------|-------|-------|
| Length | | 1,000 | 1,200 | 1,500 | 1,800 | 2,000 |
| Height | | 100/150/200 | | | | |
| DISTRIBUTION PAD CELdek® 70120 | | | | | | |
| Length | | 600 | | | | |
| Height | | 30 | | | | |
| Width | | 100/150/200 | | | | |

RCP 150 COOLING PAD



- CoolPads RCP consist of polypropylene and are therefore easy to clean and highly robust.
- Available in standard dimensions 1,500 / 1,800/ 2,000 x 600 mm, can replace standard paper pads without any problem
- Long service life
- Height max. 2 m
- Quick and easy assembly
- High cooling performance

Differential pressure CoolPads RCP 150 (150 mm wall thickness)



WDP WATER DISTRIBUTOR SYSTEM



- Quick and easy installation
- Easy maintenance and cleaning
- Flexible positioning of the water supply and discharge
- Resistant to corrosion (stainless steel 304)
- Designed to ensure an even wetting of the entire pad wall
- Stabilisation of the pad wall
- Fits any size of pad in height and width
- Available as complete system with all fitting parts
- Water filtration available upon request

STANDARD DIMENSIONS

| Length | mm | multiple of 600 | | | |
|--------|----|-----------------|-------|-------|-------|
| Height | mm | 1,205 | 1,705 | 2,005 | 2,205 |
| Width | mm | 100/150 | | | |

PVC PAD FRAME SYSTEM COOLING SYSTEM



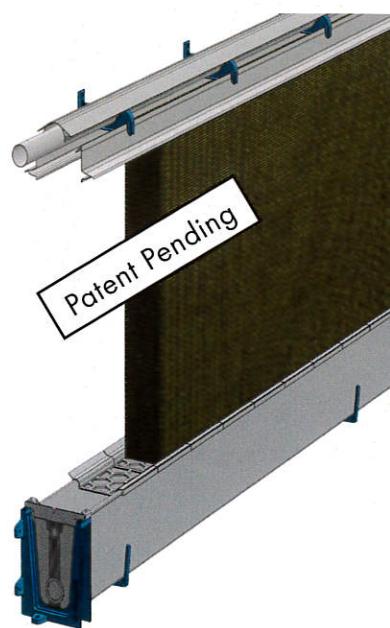
- No rusting. All components of the frame system consist of UVresistant PVC, clips and screws produced from stainless steel
- No external water tank necessary
- Long service life
- Length is flexible (up to 24 m/1 pump).
- Quick and easy assembly

PVC pad frame system dimensions

| Length (m) | Pad depth (mm) | Pump (W) |
|---------------|-------------------|-------------|
| 3 | 150 | 350 |
| 6 | 150 | 660 |
| 9 | 150 | 660 |
| 12 | 150 | 660 |
| 15 | 150 | 660 |
| 18 | 150 | 660 |
| 21 | 150 | 1,300 |
| 24 | 150 | 1,300 |

Pad height max. 2.5 m (*custom heights available on request)

MPG - MUNTERS PLASTIC GUTTER COOLING SYSTEM



- Your advantages as end-user (Farmer, Service)
 - No water leakage caused by the glue and adhesives
 - No water leakage caused by the thermal expansion and contraction
 - Semi-open header for visual inspection and check-up
 - Easy access for cleaning clogged water distribution pipe due to clip-function
 - Easy removal of pads for cleaning and disinfection due to clip-function
 - No clogging of the pad support and consequently no overflow
 - Easy flushing of the entire system due to frontal orifice
 - Excellent durability and long service life
 - Long maintenance intervals ensured by filtration and water bleed-off
- Your advantages as customer (Project Integrator, Installer, Contractors)
 - Less risk factors, eliminate glues and adhesives
 - Avoid laborious and complicated glue application
 - Avoid re-work and repairs caused by wrong glue applications
 - Avoid downtime, commissioning and start-up same day, no drying time
 - Save time and energy, no need to dig the hole for extra water tank

The MPG system is available in the following sets*:

| Length (m) | Pad depth (mm) |
|---------------|-------------------|
| 3 | 150 |
| 6 | 150 |
| 9 | 150 |
| 12 | 150 |
| 15 | 150 |
| 18 | 150 |
| 21 | 150 |
| 24 | 150 |

Pad height max. 2.5 m (*custom heights available on request)



HIGH PRESSURE COOLING SYSTEM



High pressure cooling nozzle

- Flexibility due to nozzles that can be positioned as required
- Efficient, easy to assemble and low maintenance requirements
- Temperature reductions of up to 7 Kelvin are possible
- Drop size approx. 10-20 micrometers = excellent efficiency
- Cooling without formation of wetness due to high water pressure
- Effective dust binding
- Special anti-drain valves prevent water from dripping

Max. number of nozzles depending on the flow rate and operating pressure of the 3 pump types

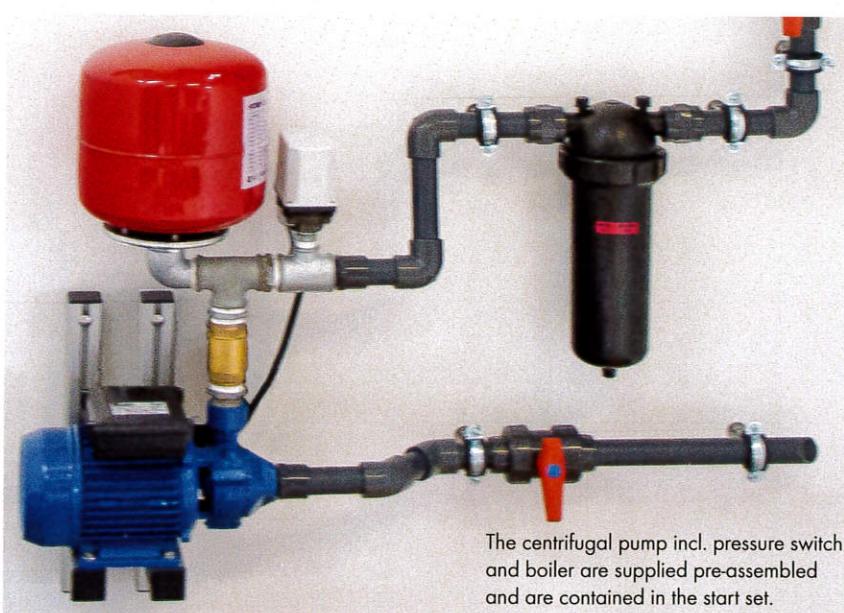
| High pressure pump type | Colour of nozzle head | Flow rate per nozzle at operating pressure (l/h) | | Number of nozzles (unit) | | | |
|----------------------------|-----------------------|--|------|--------------------------|------|--------|------|
| | | | | 70 bar | | 50 bar | |
| | | min. | max. | min. | max. | min. | max. |
| Pump 6.0 l/min (360l/h) | Red 0.3 mm | 6.5 | 5.5 | 11 | 55 | 13 | 65 |
| | Black 0.4 mm | 10.0 | 8.0 | 7 | 36 | 9 | 45 |
| Pump 13.3 l/min (798l/h) | Red 0.3 mm | 6.5 | 5.5 | 24 | 122 | 29 | 145 |
| | Black 0.4 mm | 10.0 | 8.0 | 16 | 79 | 20 | 99 |
| Pump 20.0 l/min (1,200l/h) | Red 0.3 mm | 6.5 | 5.5 | 36 | 184 | 43 | 218 |
| | Black 0.4 mm | 10.0 | 8.0 | 24 | 120 | 30 | 150 |

LOW PRESSURE COOLING SYSTEM



Low pressure cooling nozzle

- Cost-effective alternative to high or medium pressure cooling
- Efficient, easy to install and low maintenance
- Operating pressure ca. 4 bar
- Spray pattern 65 microns = good efficiency
- Water flow rate per nozzle 5,5 l/h (at 4 bar)
- Special anti-drip valves prevent water from dripping



DCP30 - DCP30 TOP4 COOLING UNIT



- Pre-coated galvanised steel housing
- Tank manufactured in thermoplastic material
- Electrical motor with IP55 protection grade
- CELdek® 7090-15 evaporative cooling pads
- Circulation water unit is CE approved
- Complete plumbing kit incorporated
- Electrical enclosure with safety and control switchgear
- Single-phase as option

STANDARD DIMENSIONS

| Model | DCP30 | TOP4 |
|--------|----------|----------|
| Length | mm 1,640 | mm 1,360 |
| Height | mm 1,000 | mm 1,000 |
| Width | mm 1,520 | mm 2,500 |

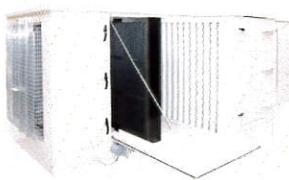
PERFORMANCES

| | | |
|-------------------------|------------|--|
| Airflow at 0 Pa | m³/h [cfm] | 16,000 [9,415] |
| Motor power* | kW [hp] | 1.1 [1.5] |
| Cooling efficiency | % | 83 - 85 |
| | | DCP30 - TOP4 |
| Cooling effect @ 50% RH | °C [°F] | OUTSIDE TEMPERATURE INSIDE TEMPERATURE |
| | | 34 [93] 27 [81] |
| | | 30 [86] 23 [73] |
| | | 26 [79] 20 [68] |

* Three-phase electric motor as standard, single phase as options.

Notes: the DCP is intended to be installed outside the animal housing. The cooling effect mentioned above are estimates and can vary based on local conditions.

MAC AIR CLEANER

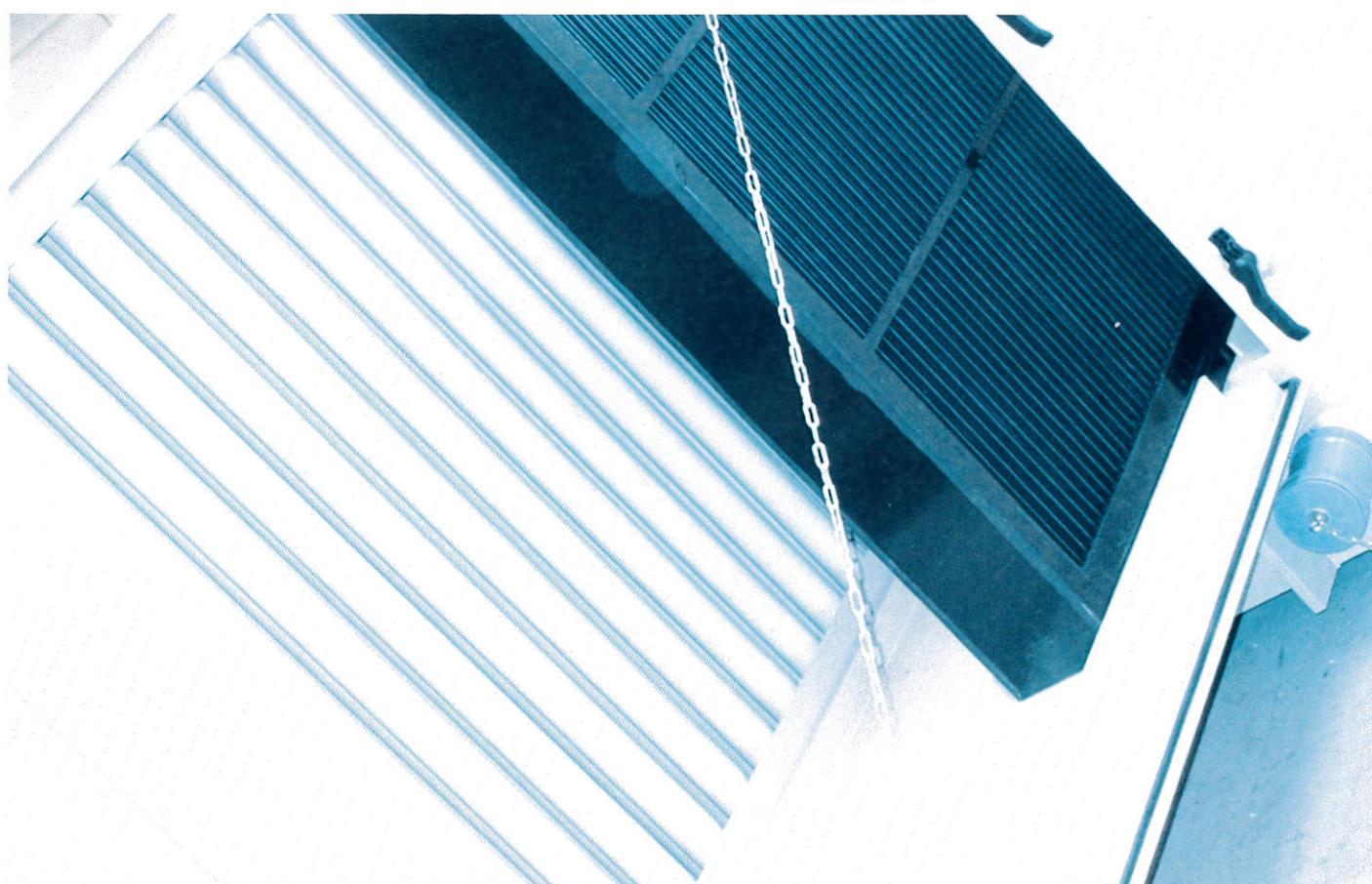


- Ammonia reduced by 89% on average
- Maximum ammonia reduction from start-up
- Dust reduction
- Non-clogging filters
- Efficient droplet separators
- Droplet separators can be drawn out and washed from the outside
- Easy maintenance
- User friendly
- Easy to install
- Corrosion resistant material

PERFORMANCES

| | | |
|-------------------|--|---|
| Ammonia reduction | VERA test - Average during a year | 89% |
| Airflow | Maximum | 25,000 m ³ /hour at 40 Pa |
| | Maximum including fan, circulation pump, dosing pump and bilge | 4.2 kW |
| Power | Average | Depends on house and management. In a layer house with 13,000 animals and one air cleaner is measured 3.4 kW on average. This also includes electricity to ventilate the first 25,000 m ³ /hour. |
| Electricity | Voltage Frequency Current IP Class | 3x400 Volt 50 Hz 16 A IP 55 |
| Weight | Air cleaner without liquid Air cleaner with liquid | 825 kg 2,325 kg |
| Water | Average water supply | 300 liter/day |
| Waste water | Drainage volume | Depends on installation and type of house and management. In a layer house was drained maximum 150 litre/dag |
| Acid consumption | Sulphuric acid 96% | 3 kg sulphuric acid per kg removed ammonia. In practice it has been less, as the water itself captures part of the ammonia. |

ENVIRONMENTAL SOLUTIONS



LAVAMATIC® DRUM WASHER



LAVAMATIC® drum module

The LAVAMATIC® drum washer facilitates the exhaust air treatment of poultry and pig stables for example, and is supplied as a complete, prefabricated module. The LAVAMATIC® system can simply be placed on the gable wall or long side of the stable. The drum washer with an air flow of 25,000 or 50,000 m³/h consists of a unique patent-registered drum washer without the use of cost-intensive circulation pumps. Furthermore, an optional biological stage is available for odour reduction.

The drum washer is characterised by its very low electricity consumption due to its ability to operate without pump equipment.

Ammonia drum washer for ammonia reduction

The exhaust air is now guided over the unique, patent-registered drum washer. The continual rotation of the washer drum takes the wash water, which is acidified to pH3, out of the water basin and the filling material in the wash drum is moistened. Additionally, the filling material is constantly cleansed when the wash drum is immersed in the water basin.

A wiper mounted at the top of the wash drum ensures that the coarser particles are removed from the drum's exterior. Simultaneously, the wiper is used for sealing the drum.

The LAVAMATIC® does not require separate washing water treatment, and this constitutes a further advantage of the technology. Elutriation takes place directly from the water basin into a separate elutriation tank.

- Uniquely rotating drum washer that cleans itself fully automatically, no pump technology needed
- Effective odor reduction thanks to the bio filter
- Operationally reliable
- No raw gas in the clean gas
- Savings of > 7,000 Euro/year (40,000 FP) in comparison to other washers in poultry farming
- Energy savings of up to 90 %
- Low blow-down rates due to conductance at 200 mS/cm
- Available in 25,000 and 50,000 m³/h



Image shows practical application in Dubai with 2 LAVAMATIC® drum washers installed

CONNECTED FARM SOLUTIONS



PLATINUM PRO CONTROLLER



Rotem's Platinum Pro Controllers is a modular farm management and control system enables farmers to administer large operations from a single controller. The Platinum Pro manages all aspects of a poultry, swine, or dairy farm (climate control, lighting, feed and water, weighing, and ventilation). Platinum Pro's unique hardware capabilities combined with the HUB greatly extends this control in a low cost manner.

Benefits

- Modular architecture enables a high level of flexibility in system design
- Improved software capabilities support an unlimited number of devices and scales
- Simple software upgrade reduces maintenance time

Programming accessories from the Platinum Pro simplifies accessory configuration

Features

- Access via the Web or Cloud
- Real time alarms via smartphone or Web
- Supports a large number of input/outputs both analog and digital
- A single controller supports up to 200 2HP heavy duty relays (including Expansion units)
- Smart On/Off/Auto override switches
- 16 independent heat zones
- Precision fogger and evaporative cooling system
- Failsafe emergency relay
- SD card and ARM CPU
- Multilanguage support
- Supports Munters Drive

SUPER GUARD & PIGUARD PLUS CONTROLLER SYSTEM



Benefits

- Easy to use and simplifies configuration, control, & monitoring your farm
- Compatible with Farm Premium family legacy software programs
- Modular architecture enables a high level of flexibility in system design
- Expansion boxes support input/output devices reducing the need for central controllers.
- Improved software capabilities support an unlimited number of devices, including scales, meters, digital thermostats & more.
- Extended longevity of hardware components
- Minimal internal heat improves durability in hot climates
- Reduced electrical noise levels improve signal quality
- SD cards enable simple saving & loading of settings

PLATINUM TOUCH 30 CONTROLLER



The Platinum Touch, Rotem's most advanced climate control unit, provides swine farmers with vastly expanded capabilities. Featuring all the functionality of the Platinum Pro Controllers, the controller's new screen provides an intuitive, easy-to-use interface that brings all the advantages of touch screens to your farm.

Benefits

- User friendly large screen is easy to use & simplifies configuration, control, & monitoring your farm
- Modular architecture enables a high level of flexibility in system design
- Improved software capabilities support an unlimited number of devices and scales
- Programming accessories from the Platinum Touch simplifies accessory configuration

Features

- All functions are fully accessible from the touch screen
- Access via the Web or Cloud
- Real time alarms via smartphone or Web
- Supports a large number of devices via analog inputs and outputs, and digital inputs
- A single controller supports up to 200 2HP heavy duty relays (including Expansion units)
- Smart On/Off/Auto override switches
- 16 independent heat zones
- Precision fogger and evaporative cooling system
- Failsafe emergency relay
- SD card and ARM CPU
- Multilanguage support
- Supports Munters Drive



AC-2000 3G, Rotem's latest addition to its lines of industry leading environmental controllers, provides a feature-rich yet cost-effective control solution for swine farmers. Featuring an advanced hardware and software package, the AC-2000 3G en

Benefits

- LCD graphic display enables simplified navigation between menu items
- Fuel saving features reduce operating costs
- Precision Ventilation maintains optimal environmental conditions
- All-in-one controller maximizes profits by managing and coordinating all devices and functions
- Real-time alarms inform the grower if anything goes wrong
- Remote control enables long distance management
- Extensive memory and SD card enable storing huge volumes of detailed data and log histories and simple controller upgrades.

Features

- Graphic display
- Convenient user controls
- High performance measurement and control processes
- SD card enabling simplified software updates and profiles
- Support for:
 - CO₂ control
 - various ventilation modes
 - multiple exhaust, tunnel, stir, and other fans
 - multiple heating methods
 - various types of curtains/inlets/dampers
 - extended lighting, feeding and watering functionalities
 - scale functions
 - extended cooling and fogging functionalities
 - flexible sensor assignment
- 20 relays (28 when used in conjunction with an REB-8)
- extended data collection capabilities
- multiple languages

SMART SERIES CONTROLLER



Benefits

- Cost effective technology provides high ROI
- Automatic shift from minimum ventilation to tunnel ventilation ensures high air quality at any temperature
- User friendly software and flexible settings enable adjusting the SMART to specific local conditions
- Supported by Rotem PC communication software, enabling remote access and ability to supervise 24/7
- SMART models vary in their number of relays and options, enabling you to find the model that meets your specific requirements

Features

- Automatic control of ventilation, cooling, and heating
- Support for:
 - Temperature and humidity sensors
 - Water and feed meters
 - Potentiometer feedback
 - Wind speed and direction sensor for natural ventilation
 - Digital inputs
 - Analog 0-10 VDC outputs
 - TRIAC for variable speed fans
 - History data on PC
 - Data plug for easy transfer of settings
 - Multiple language packages

Rotem's SMART Controllers provide the Swine industries with a cost-effective climate control solution that is easy to install, simple to program, and built to work in the rigorous conditions found in swine stables.



COMMUNICATOR

- An alarm and communication center used by farmers to monitor and control their Munters controllers and accessories
- Alarms and data in real time enable optimal management of your controllers, 24/7
- Remote controller configuration enables centralized management of all farms from one computer
- Text messages ringtones ensure that you don't miss an alarm
- Status reports provide critical information on house functions and animal statistics
- Battery backup

ROTEMNET WEB COMMUNICATION SOFTWARE



- Complete control over your farm via a mobile phone, tablet, or PC
- Consistent look & feel with other Munters applications, including the PC & Tablet View & Platinum Touch
- Single user can control multiple farms
- Overview of your farms' activities
- User customized dashboard
- Easy comparison of the houses' main performance parameters

COMMUNICATOR 2.0



- Enables complete web access to controllers from any device with access to the Cloud
- Multiple communication pathways: Built-in internet and telephone connectivity, optional cellular connectivity
- Programmable alarms
- Alarm Messages via SMS, line & internet push notification.
- Battery backup

COMM-BOX



- Enables complete web access to controllers from any device with access to the Cloud
- Multiple communication pathways: Built-in internet and telephone connectivity, optional cellular connectivity
- Can be installed as an add-on to the Communicator



RLINK ONE WIRELESS COMMUNICATION

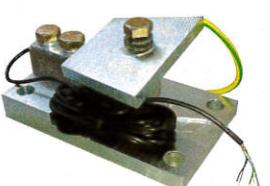
- Provides wireless communication between a controller network and a communication system
- Supports loopback signal transmission, enabling you to test antennas and locations before installing controllers or other communication units
- Adjustable power levels minimize signal interference from adjoining networks
- Improved user interface and multiple LEDs simplify troubleshooting in every aspect of signal transmission
- Multiple communication pathways: Built-in internet and telephone connectivity along with optional cellular connectivity
- Provides an effective alternative for situations a communication cable infrastructure is not feasible
- Multiple new features ensure RF signal quality, enable long distance transmission, and greatly simplify installation and setup

RSW-2 SILO FEED WEIGHING SYSTEM



- A silo weighing control system that enables farmers to accurately control feed deliveries and feed inventory
- Programs for breeders, broilers, pullets, and pigs
- Automatic activation of delivery augers, feeders, lights, and alarms reduces your work load
- Automatic registration of feed deliveries, including quantity, date, and time
- Up to 10 feeding cycles and 10 lighting cycles per day
- Separate programs for male and female breeders and skip-a-day function
- Control of up to 2 feeding augers, 16 feeding lines, 12 load cells, and measurement of feed and water consumption
- LCD display, multiple operating modes and PC communication for Windows

SILO LOAD CELLS FEED WEIGHING ACCESSORIES



- Used to weigh silo cells
- Used in conjunction with the Farm Silo Weight or Farm Premium Controllers
- Complete and accurate data regarding feed contained within the silo
- Farm Silo Load Cells high quality ensures that it provides accurate data even under rigorous field conditions, such as high heat or humidity
- Rust-proof, even in wet environments

RDT-5 DIGITAL THERMOSTAT



- A cost effective backup controller that operates during a primary controller failure or during extreme temperatures
- Ensures animal survival in cases of extreme temperatures or power disruptions.
- No software required to run the Farm Back Up, ensuring service even in the event of a controller failure
- Monitors and controls important data while operating heaters or fans in the event of a failure

RBU-27 SE BACK UP SYSTEM



- 27 heavy duty relays
- Up to five backup stages
- Four times delays
- Five backup stages (each powered by its own circuit breaker):
- Two heating stages
- Three cooling stages
- Front panel LED indicators
- Ensures animal survival in cases of extreme temperatures or power disruptions.
- No software required to run the RBU-27, ensuring service even in the event of a controller failure.
- Unique design provides a greater control in choosing the ventilation method, testing equipment, and emergency climate control.

RPS-5 STATIC PRESSURE SYSTEM



- Microprocessor based controller
- State of the art pressure sensor
- Static pressure measured in inch/column water, Pascal or mbar
- Outside temperature and Winter/Summer pressure setting
- Manual over-rides
- High & low static pressure alarm
- Inerasable memory
- Time delay to avoid over reaction on windy days
- Adjustable inlets opening / closing step times
- Easy installation and operation
- Interlock for fans and curtains

FEATURES



HIGH EFFICIENCY



In the high end of Munters Agriculture products there is more and more interest for high efficiency products: the European community has introduced a regulation which determines the minimum acceptable efficiency rate for exhaust fans, moreover customers are more sensitive to running cost of the fans and to the quantity of energy necessary for moving a certain amount of air. Munters response to this demand of high efficiency products is represented by the new line of EDHE fans, designed for being fully compliant with European Ecodesign directives, by the cone fans EC50 and EC52, offering an improvement in the range of 10 - 15% of the performances thanks to introduction of discharge cone.

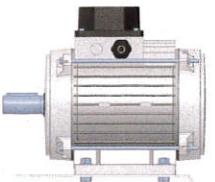
Recently Munters has designed and patented a unique EC motor, designed for working in conjunction with cone fan, able to offer an unbelievable level of efficiency and airflow.

MUNTERS PROTECT



In agriculture, corrosion is usually caused by a combination of many factors such as pH, high humidity levels, frequent contact with water, aggressive chemicals as found in manure or disinfectants, bacterial growth; and the list goes on. The industry is also continuously evolving and that might have surprising side effects: new agricultural chemicals or feed additives might do wonders for animal or plant health, but also enhance corrosion on metal products. For offering a consistent remedy to corrosion troubles Munters switched to a new material, called Munters Protect, which offers extremely high protection against corrosion. It consists of a coating made of Zinc, Aluminum and Magnesium and it delivers the best corrosion resistance performance, up to 10 times better than galvanised steel.

MOTORS



Munters is able to offer a wide range of motor power, depending on the application and the fan size. The smallest fan Munters produces, the 18" air recirculator EDC18 is equipped by a 0.33 Hp motor. The minimum ventilation fans and air recirculators can be equipped by a 0.5 or 0.75 Hp motor. The exhaust fan used for tunnel ventilation can be equipped by 1.0 or 1.5 Hp motor. For the recent production of big diameter fans, like EM52 and EC52, Munters has fitted them with a powerful 2.0 Hp motor. Most of the models of fans allows speed control obtained either by inverter (VFD) or autotransformer. This huge flexibility in the offering has been developed for being able to cover any demand in terms of airflow which might rise from our customers.



MUNTERS DRIVE

Ventilation inefficiencies are mainly related to 3 major causes: the types of motors used as the design of AC motor has physical limitations; the belt drive systems as the friction on the transmission components energy causes an energy loss and a high level of maintenance; the fixed single revolution speed and consequent fixed capacity, which prevents energy savings when ventilation demand is low. Munters Drive avoids these limitations through 3 innovations: a new motor architecture which shows a more efficient performance; the direct drive which makes the motor turning at the same revolution speed as the optimum propeller speed, eliminating friction losses and the need of maintenance; and the variable speed which reduces the motor speed and fan capacity when ventilation demand is low, generating significant energy savings. By combining the energy efficiency benefits that a Munters Drive offers over a conventional fan, users have been able to reduce annual ventilation costs by up to 40% and additionally saved a similar amount in maintenance cost reduction.

LOADING VOLUMES



Munters has developed an optimized loading displacement for combined loads on 20ft, 40ft and 40ft high cube containers and standard trailers*, which allows to balance volume and weight for delivery of complete system of fans, pad, accessories and heaters. Fans can be delivered assembled, in partially assembled form and fully disassembled depending on the number of products involved. The cooling pad and other accessories can be stored as well inside the container/trailer in order to completely fill the empty space fore and optimize the transport costs. Therefore, all the loading volumes shown in the catalogue are just a few of the many loading options available. Assembly manuals are provided for easy mounting of the received products.

* 13.60x2.40x2.60m

NOTES

DEALER PORTAL

www.aghorttools.com



Munters Dealer Portal is the exclusive resource of information and documentation dedicated to our Dealers. On this new spot you will find product information, manuals and other technical documents, case studies, marketing material, training presentations and soon a calculation tool and price catalogues.

A screenshot of the Munters Dealer Portal homepage. The header features the Munters logo and a search bar. Below the header is a large banner with the text "Resource Center" and an image of a person using a laptop. The main content area contains several blue rectangular buttons with icons and text: "Training", "Marketing", "Software", "Products", "Applications", "Videos", "Earlier Newsletter", "Munters website", "NEW PRODUCT RELEASE", and "Reventa Aircleaning".

For more information: info.aghort@munters.com