



Pig housing for a

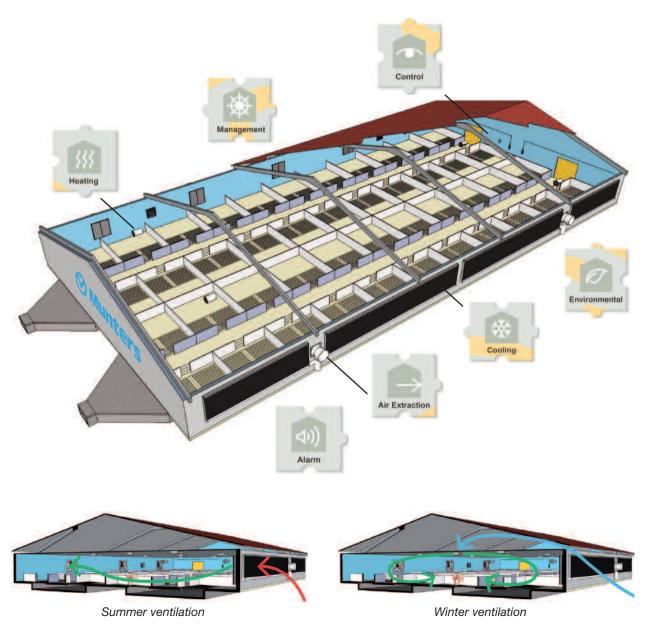
Moderate & hot climate

1. Breeding house

Animals housed inside this type of building are in their reproductive phase. The weight of such pigs is usually between 110–130 kg (females) and 180 kg (males). The animals are typically confined inside single cages or, less frequently, grouped in pens. This type of structure is most commonly characterized by a common environment without dividing walls inside. In mild climates side curtains are often used with natural ventilation during the spring and autumn.



Example of a ventilation system for moderate and hot conditions with: Vortex exhaust fans, IL air inlets with LA actuator, GA heaters, CELdek® cooling pads and Farm Series controller.



all growth phases

2. Gestation house

During gestation sows can reach weights of between 145 and 180 kg depending on the breed. This is an important phase of production and a properly designed ventilation system will maintain the optimal temperature and humidity levels for gestation and eliminate the noxious gases. In areas where temperatures could rise high enough to cause heat stress conditions, an evaporative cooling system with CELdek® pads would be an ideal solution.

Cold continental climate



Example of a ventilation system for cold continental conditions with: TU exhaust fans, IS air inlets, GA heaters and Farm Series controller.







Pig housing for a

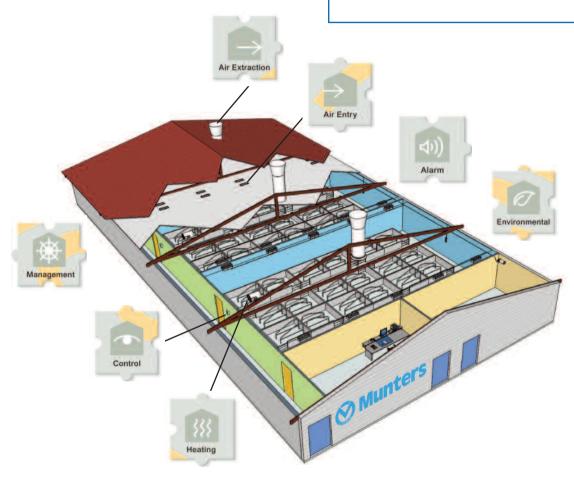
Cold continental climate

3. Farrowing house

Here each sow is confined, together with her piglets, inside a crate measuring on average 2.5 x1.45 m. Typically a farrowing house will comprise a number of rooms with a variable number of crates. Piglets are highly sensitive to drafts and to sudden changes in temperature so these rooms are therefore often small with flat ceilings to reduce the height, aiding temperature consistency.



Example of a ventilation system for cold continental conditions with: TU exhaust fans, IL air inlets, GA heaters and Farm Series controller.







all growth phases

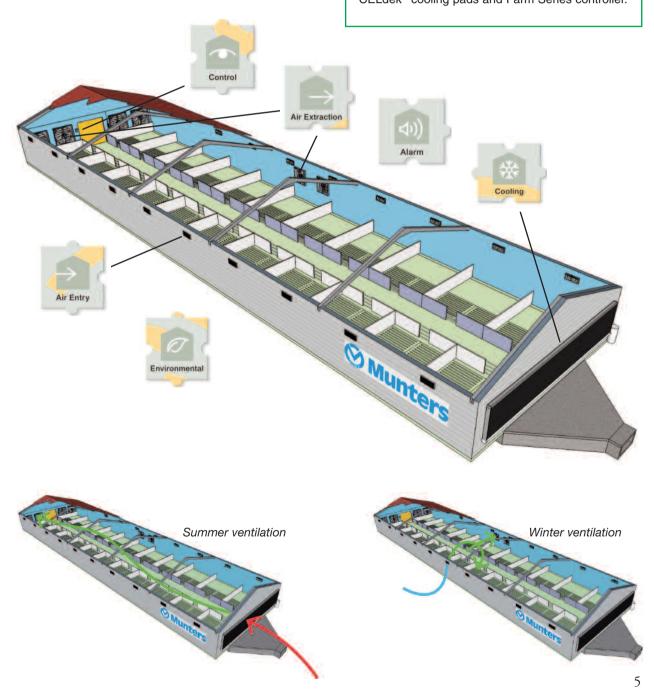
4. Fattening house

Here the animals are grown on from a weight of 25–35 kg until reaching their final weight (90–110 kg). This can take six to seven months and during this period the animal's needs, in term of microclimate and space, change a lot. The most common house types are either sub-divided into a number of separate rooms where the pigs are grouped, or a large house where the pigs are grouped in multiple metal pens.

Tropical climate



Example of a ventilation system for tropical conditions with: EMX 50 exhaust fans, IW air inlets, CELdek® cooling pads and Farm Series controller.



Pig housing for all growth phases

5. Rearing house

Rearing houses are present in cases where the farrowing house is used only during delivery and for the lactation period. In fact this is the environment where piglets should be kept as soon as they are weaned. Weaning typically takes place when the piglets are a maximum of three to four weeks old and weigh 4.5–5 kg. Piglets will then be housed inside this structure until reaching 30–35 kg. The two most common house types are rooms with pens and 30 to 50 piglets, which are grouped together according to the pen's dimensions, and housing with partitions.



Reduction of emissions from pig stables

Munters new TLV ammon reduces and cleans the air from ammonia and dust by 95%. The TLV system needs only a minimum of maintenance and is equipped with automatic control and a self cleaning device. The system itself has very low running costs and does not require any modifications to building interiors. TLV can easily be installed inside or outside an existing building.

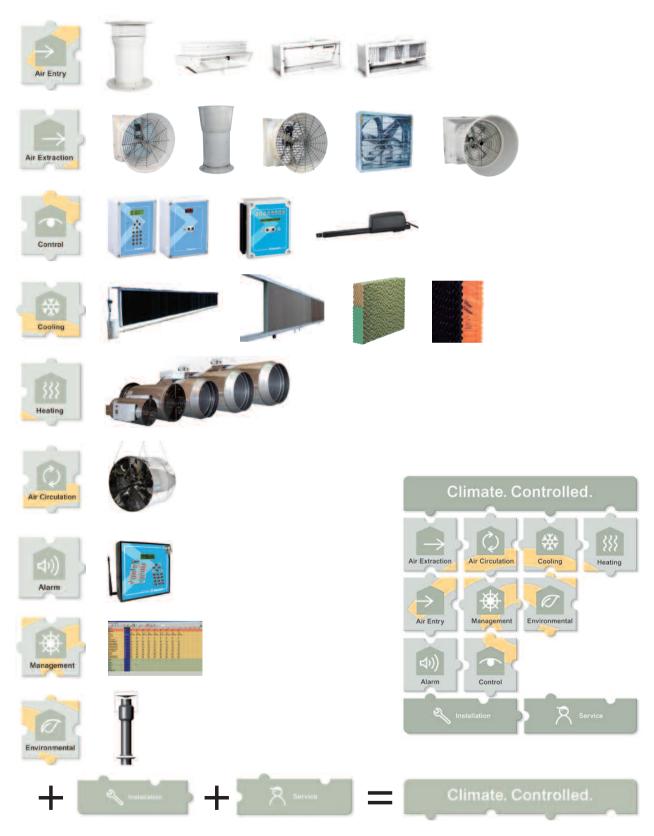
Function

TLV sucks air from the pig stable through the wall. The air is cleaned with a fine spray of atomised liquid to which sulphuric acid is added. After the cleaning process, the liquid is separated from the air again in the patented separation chamber. The liquid is collected at the bottom of the air cleaner and thereafter led to the water treatment unit that is located underneath the TLV.





Choose Munters systems, components and know-how and let us design your system to reach perfect conditions for growth.



The Munters' difference

Munters utilizes its sophisticated software combined with its extensive experience in livestock ventilation to generate a design proposal to suit any farm breeding or rearing pigs. The resulting design will not only specify the right equipment to deliver the required airflow, but also the right equipment to ensure airflow patterns that will not cause any disruptive animal behaviour.

Ideal climate control requires an ideal combination of components. For quality Munters' components with the Climate Control Expertise to match them, as well as a strong local presence.



Munters Europe AB, HumiCool Division, Isafjordsgatan 1, P.O. Box 1150, SE-164 26 Kista, Sweden. Phone +46 8 626 63 00, Fax +46 8 754 56 66. Munters Italy S.p.A., Strada Piani 2, IT-18027 Chiusavecchia, Italy. Phone +39 0183 52 11, Fax +39 0183-521 333. www.munters.com

Australia Munters Pty Limited, Phone +61 2 6025 6422, Brazil Munters Brasil Industria e Comercio Ltda, Phone +55 41 3317 5050, Canada Munters Incorporated, Phone +1 905 858 5894, China Munters Air Treatment Equipment (Beijing) Co. Ltd., Phone +86 10 80 481 121, Denmark Munters A/S, Phone +45 9862 3311, Finland Munters Oy, Phone +358 9 83 86 030, $\textbf{France} \ \ \textbf{Munters} \ \ \textbf{France} \ \ \textbf{S.A.}, \ \textbf{Phone} \ + 33 \ 1 \ 34 \ 11 \ 57 \ 50, \ \textbf{Germany} \ \ \textbf{Munters} \ \textbf{Euroform} \ \ \textbf{GmbH}, \ \textbf{Phone} \ + 49 \ 241 \ 89 \ 00 \ 0, \ \textbf{India} \ \ \textbf{Munters} \ \ \textbf{India}, \ \textbf{Phone} \ + 91 \ 20 \ 3052 \ 2520, \ \textbf{Indonesia} \ \ \textbf{Munters}, \ \textbf{Phone} \ + 62 \ 818 \ 739 \ 235, \ \textbf{S.A.} \ \ \textbf{Phone} \ \textbf{S.A.} \ \ \textbf{S.A.} \ \ \textbf{Phone} \ \textbf{Phone} \ \textbf{S.A.} \ \ \textbf{Phone} \ \textbf{Phone} \ \textbf{S.A.} \ \ \textbf{Phone} \ \textbf{Phone} \ \textbf{S.A.} \ \ \textbf{Phone} \ \textbf{S.A.} \ \ \textbf{Phone} \ \textbf{S.A.} \ \ \textbf{Phone} \ \textbf{Phone$ Haly Muniters Italy S.p.A., Chiusaveschia Phone +39 0183-52 11, Muniters Italy S.p.A., Mondovi Phone +39 0174 560 600, Japan Muniters K.K., Phone +81 3 5970 0021, Kingdom of Saudi Arabia and Middle East Hawa Munters, Phone +966 1 241 8808, Korea Muniters Korea Co. Ltd., Phone +82 2 761 8701, Mexico Muniters Mexico, Phone +52 818 262 54 00, Russia Munters Europe AB, Phone +7 812 448 5740, Singapore Munters Pte Ltd., Phone +65 744 6828, South Africa and Sub-Sahara Countries Munters (Pty) Ltd., Phone +27 11 997 2000, Spain Munters Spain S.A., Phone +34 91 640 09 02, Sweden Munters Europe AB, Phone +46 8 626 63 00, Thailand Munters Co. Ltd., Phone +66 2 645 2708 12, Turkey Munters Form Endüstri Sistemleri A.Ş., Phone +90 322 231 13 38, United Kingdom Munters Ltd., Phone +44 845 644 3980, USA Munters Corporation Fort Myers Phone +1 239 936 1555, Munters Corporation Mason Phone +1 888 335 0100, Vietnam Munters Vietnam, Phone +84 8 825 6838, Export & Other countries Munters Europe AB, Phone +46 8 626 63 00.