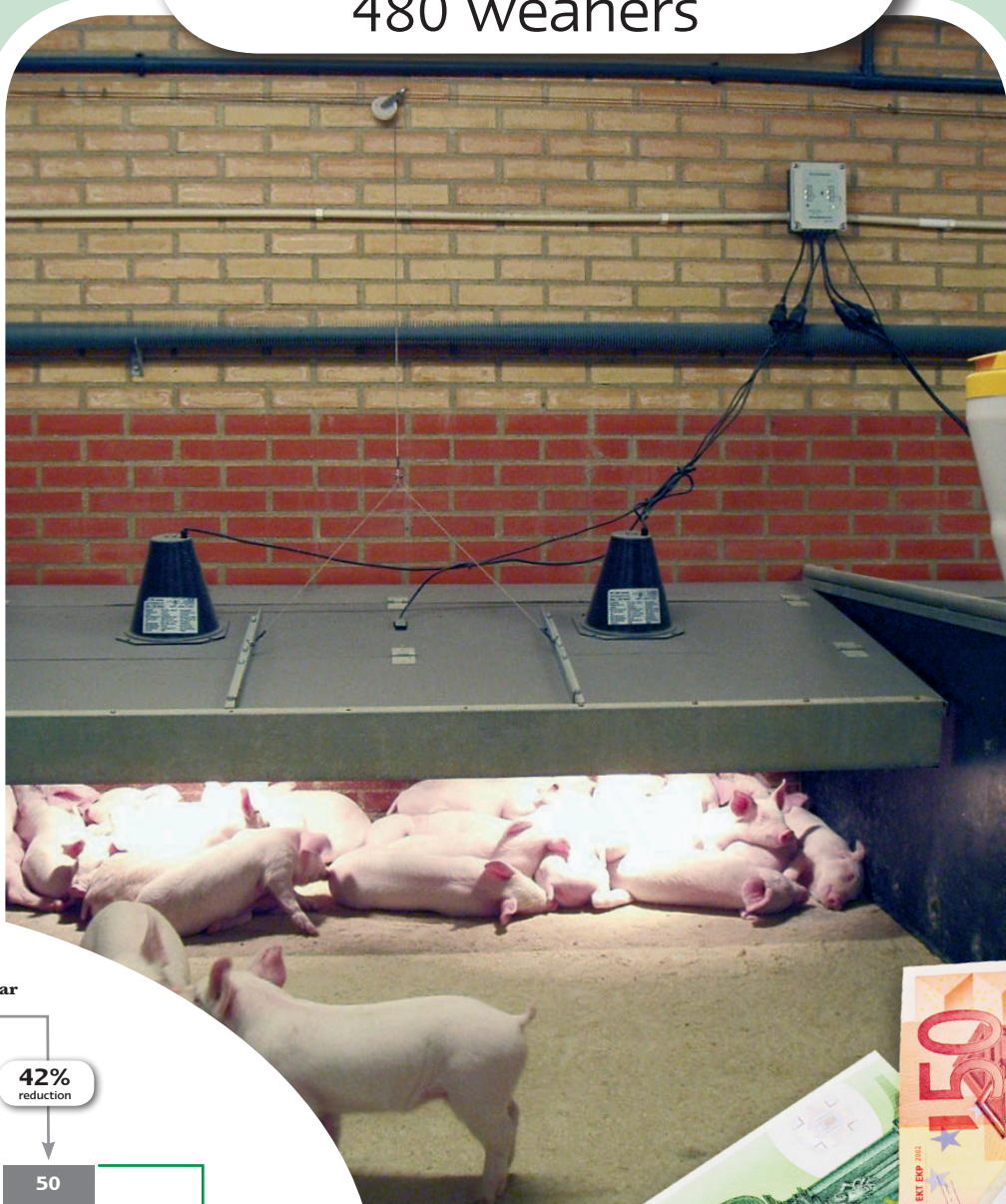




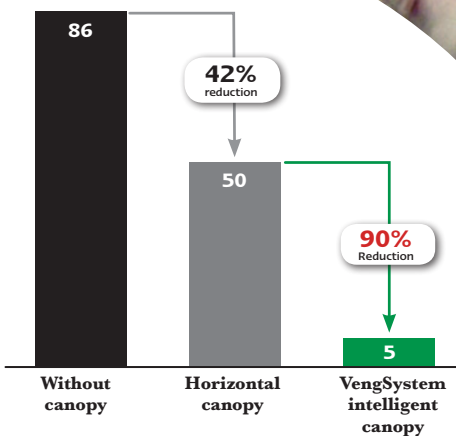
VengSystem Intelligent Canopy for weaners

Patent pending

**Increased profit
up to € 74,150 / year**
for 8 sections each
480 weaners



KWh/weaner place/year



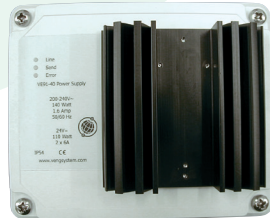
 VengSystem



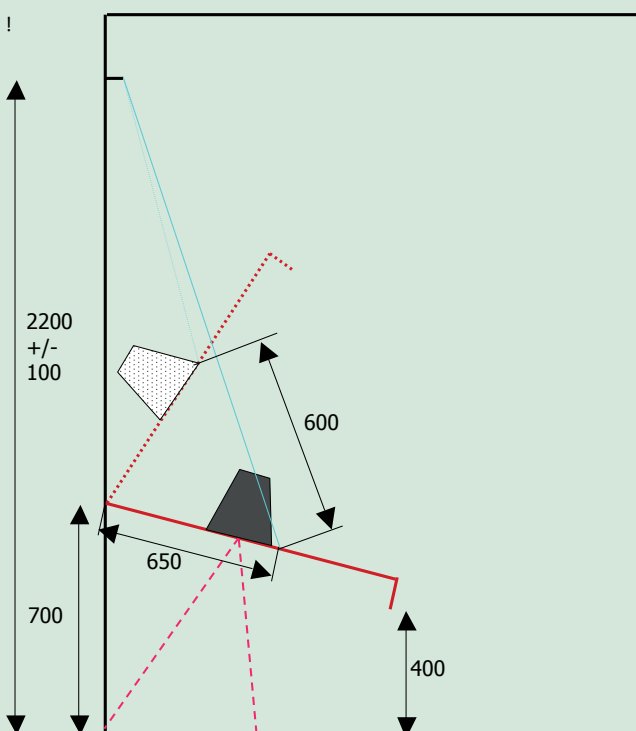
How to create the appropriate climate and increase the bottom line.



- Total heat consumption of only 5 kWh per weaner place / year.
- Improved environment for the piglets.
- Better Well-being.
- 8% cooler house = cooler slurry/slats = 68% less ammonia emission.
- Makes ammonia reducing equipment redundant.
- Smarter than a heat recovery system.

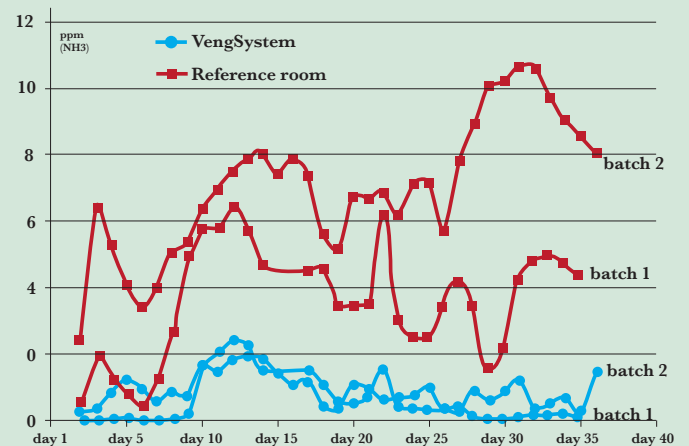


Motor and motor control are placed in the room, environmental controller and power supply in the gangway.



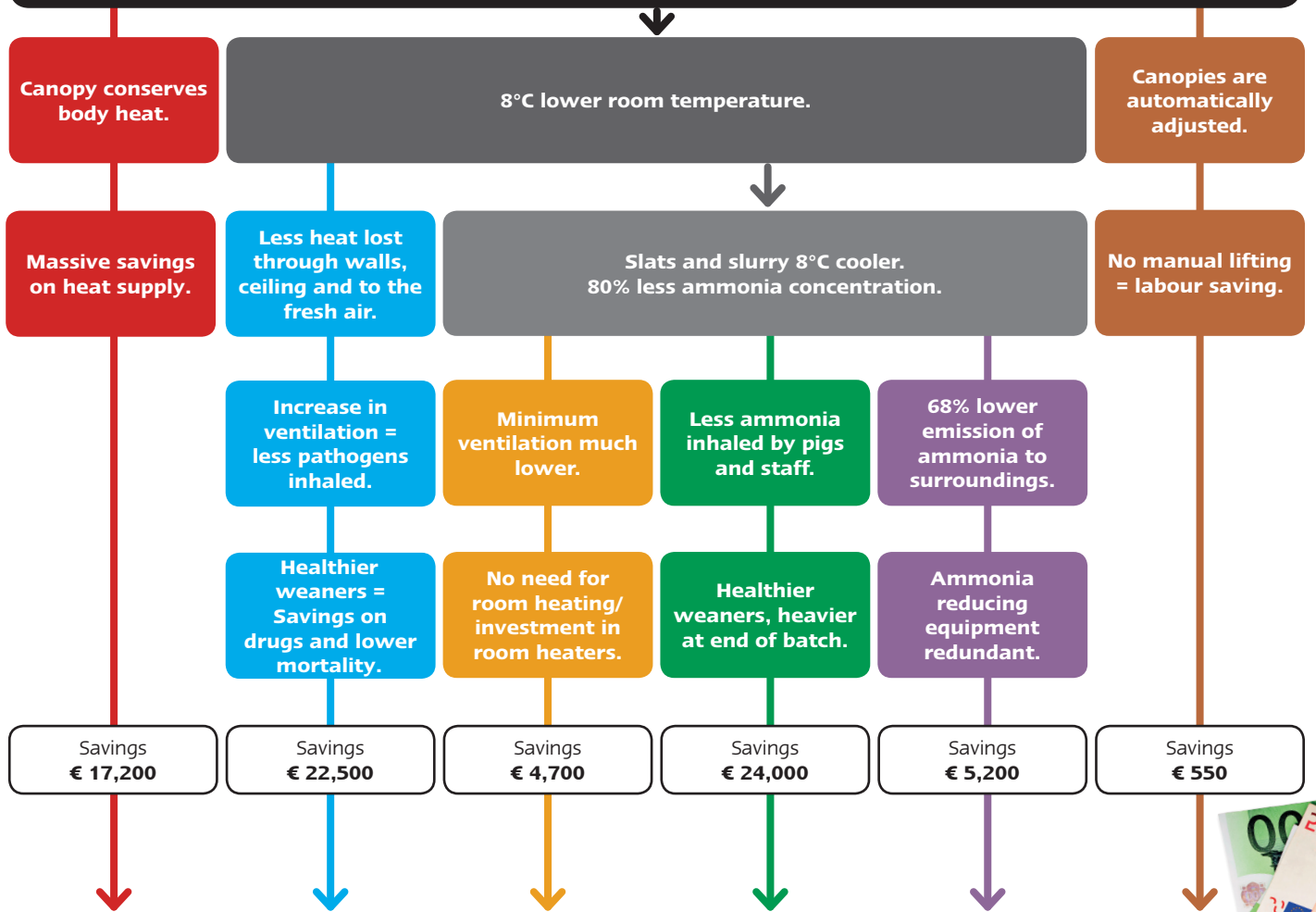
An inclined canopy with the VengSystem intelligent heat lamps and lifting system is placed in the sleeping area of the weaners. The infrared sensor then measures the surface temperature of the animals, giving precise information about how they feel. This information is used to determine the heat output of the lamps and the inclination of the canopy. Dunging under the canopy is not existent. You save a massive amount of energy and improve the bottom line of your production. See next page for further information.

Official test results



Source: IFIP

Canopy + intelligent heating and lifting by VengSystem.



= Total profit € 74,150 / year (8 rooms of each 480 weaners).

With a specially designed canopy, the intelligent controls for both the lamp and the canopy height dramatically conserve the heat produced by the piglets beneath. The piglets will also eat normally after weaning. Heat consumption to a whole room costs between 50 and 100kWh per pig place / year. With the intelligent canopy, consumption is 5-8 kWh.

On day 1 a weaner room can be 20-21°C, a reduction of 8° from the usual 28°C. Heat loss to the room is now 30% less even with an outside temperature of 0°C. However ventilation is + 30% higher in the room. This reduces concentrations of bacteria & viruses. This aids the weaner piglets and gives 2% lower mortality.

With the canopy system the room temperature is lowered by 8°C, therefore the temperature of the slats and the upper surface of the slurry is also correspondingly lower with this. Bacterial activity falls and far less ammonia is produced. Also production of water vapour and odour is reduced. Now we can reduce minimum ventilation, saving on energy. Room heat becomes redundant, saving on further investment, maintenance and high energy bills.

Tests prove that running a weaner section 8° lower will reduce ammonia by 80%. The weaners are much healthier and leave the section between 1-2 Kg heavier. This gives the weaners a better start in the finisher house and a saving on feed etc.

Reducing the ammonia by 80% with intelligent canopy = 68% less ammonia released to the surroundings. Many European countries will have regulations on ammonia emissions. These are easily met when using the intelligent canopy in weaner sections. This saves large costs on installing and running air cleaners, slurry cooling or slurry acidification systems.

A canopy may need adjustment regularly to maximise its purpose. Using manual methods not only costs in labour, but never accurate. The intelligent canopy is in the correct position 24/7 – labour free 365days / year.





Further benefits



Designed for the environment in pig houses

Our systems are designed and field tested to survive the demanding conditions within piggeries by:

- **40 Years experience with electronics inside livestock houses.**
- **Electronics are resistant to ammonia etc.**
- **Service recorded as low as 2%**
- **Spare parts guaranteed**

Connecting your PC to the internet, we can provide online system support and maintenance.



VE150 has state of the art characteristics:

- **Labour saving – lamps stays in place whilst cleaning**
- **No air gaps in the lamp holder – stops cold air draughts to the piglets**
- **Designed to be fixed on top of canopy**
- **Long Lifetime using quality materials**
- **Protective glass with rubber seal.**



- **Intelligent heat lamps for baby rooms**
- **Excellent and competitive heating**



Expand with PC monitoring

A number of benefits are available with pc connection:

- **Find abnormal pens**
- **Turn lamps on by section**
- **Test heat lamps**
- **See development in demand over one week**
- **Set temperatures + Consumption in all pens.**

Dealer

Save 60% heat in farrowing
Save 80% heat with super air outlet

 VengSystem

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