

REDUCE YOUR ENERGY CONSUMPTION -VENTILATION-

Regarding climate change, reducing our energy consumption is a key issue. This sheet presents some simple actions for different types of animal husbandry.

Optimize the heating-ventilation combination



Livestock buildings represent a major source of energy consumption (heating and ventilation).

Ventilation can cause 70 to 80% of heat loss in buildings (ADEME). Its management must therefore be done in close relation with heating.



Heating: heating setpoint temperature =

Example: Impact on consumption

In pig farming: heating set point in the postweaning room (PS) at 0.5°C higher than that of the ventilation.

Impact: - 21%

Ventilation, minimum level: 10%, range: 6°C



Avoid heating when the fan is accelerating.

Centralize the control functions of the heating and ventilation: the set temperature of the heating must be the same as the ventilation.

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▲ Illustration of the combination of heating and ventilation operation for a regulated heating (source: Atout porc Bretagne)



Room-by-room economical ventilation can save up to 90% of the initial requirements, in particular by optimizing the aerodynamics of the fans.

kWh consumed per seat	Classic room-to- room ventilation	Centralized ventilation <i>(-60%)</i>	Economical Ventilation <i>(-</i> <i>85%)</i>
Gestating	144	57,6	21,6
Maternity	90	36	13,5
Fattening	36	14,4	5,4
Post-weaning	12,75	5,10	1,91

▲ Energy consumption related to ventilation in pig farms (source: IFIP)

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