


Geavanceerde luchtwassers voor
industriële- & agrarische
bedrijven



AHP heat pump For intensive livestock farming

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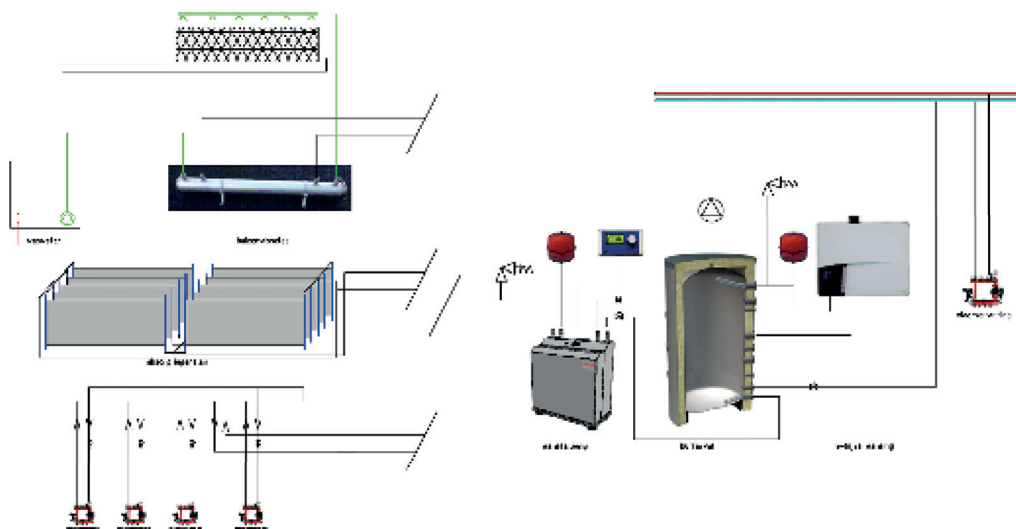
Heat pumps are known as a very energy-efficient heat source. However: for installations with ground heat (approx. 10 °C), for example, the COP value does not exceed a 4 to 4.5; for heat from the barn (approx. 20 °C), this value will be considerably higher (approx. 5.5).

The heat can be transferred to the heat pump by means of absorption panels in the duct or with a dirty water exchanger in the air washer; the floor can also be used as a heat source.

The AHP has a robust casing and high-quality components, making the heat pump ideal for the agricultural sector.

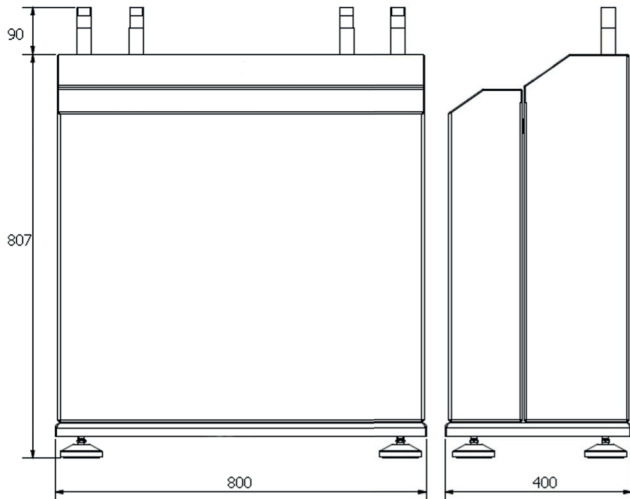
This heat pump, specially designed for the agricultural market, is ideal for heat recovery from stables. The heat pump achieves the highest possible result because we have tailored the design details to the application:

- Agricultural environment
- Heat from the barn/air duct at around 20°C
- Low-temperature heating systems (underfloor heating, panel heating)
- Pre-heating for hot water preparation



This easy-to-install and connect heat pump has an integrated water exchanger and circulation pump for direct connection to the heat panels and buffer tank. The control equipment is suitable for connection to KL climate computer and inverters.





Technical specifications:

Capacity:	10 kW	20 kW	40 kW	60 kW
Power consumption:	1,8 kW	3,5 kW	7,4 kW	12,5 kW
Tension:	400 V	400 V	400 V	400 V
Weight:	110 kg	155 kg	178 kg	275 kg
Housing:	rvs	rvs	rvs	rvs
Connection:	1"	1 1/4"	1 1/4"	1 1/4"
Volume flow recording:	1,5 m³/h	3 m³/h	6 m³/h	9 m³/h
Volume flow delivery:	1,7 m³/h	3,4 m³/h	6,8 m³/h	10,2 m³/h
COP-value*:	5,5	5,5	5,5	5,5

* at 20 °C inlet and 45 °C outlet

Dimensions of a heat pump with a capacity of 10 kW

By deploying a heat pump which uses the heat from a barn to make hot water for floor or post-heating, a lot of energy can be saved. The COP value of such an installation can reach 5.5, meaning that 5.5 kW of thermal energy is extracted from every kW of electrical energy.

Translating this into gas/power costs, a year-round heat pump system can pay for itself in 3 to 4 years. By using a buffer tank between the heat pump and central heating system can also be used at the times when less energy is needed, the heat pump can continue to run and thus increase the efficiency of the entire system.

Buffer tanks are available in various designs and capacities: buffer tanks are available without exchangers, with 1 exchanger or with 2 exchangers. Also available are buffer tanks with a coil for tap water.

