



Munters »exchange« heat exchanger

Heating systems

The distinctive feature of the »exchange« heat exchanger is its simple design and its efficient method of operation. Through the use of the heat exchanger, incoming fresh air is heated by the outgoing exhaust air. This helps to save energy and simultaneously protects the environment.

ADVANTAGES

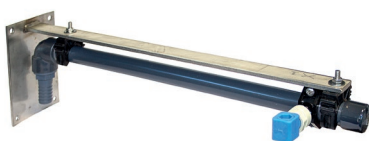
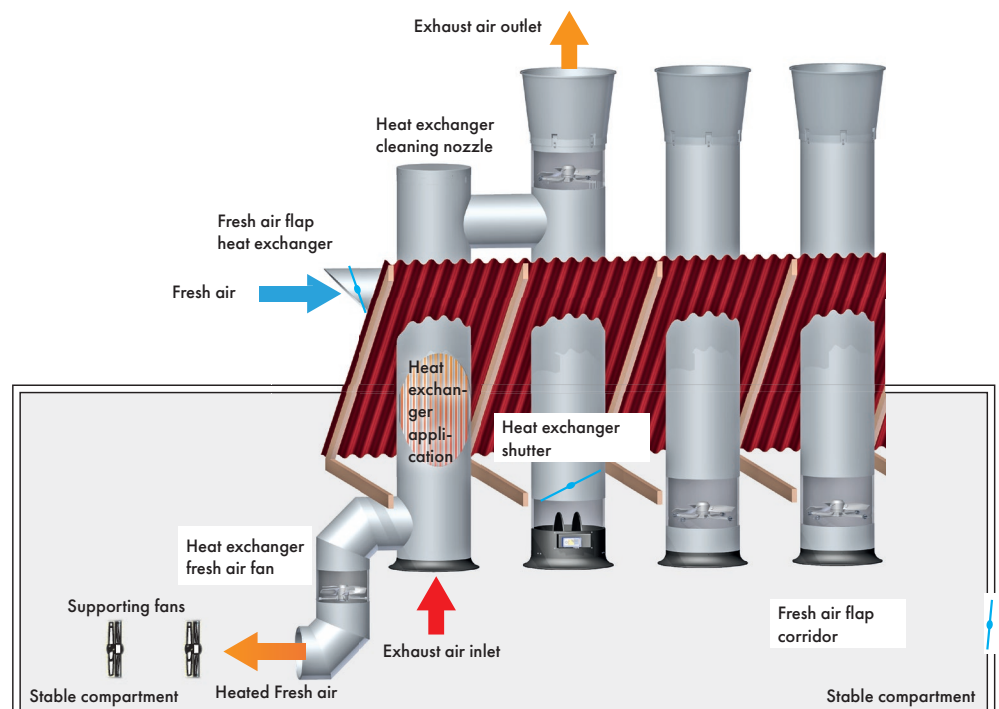
- Heat exchanger output 40 – 120 kW (136.500 to 409.500 Btu)
- Air flows of over 10,000 m³/h (5,900 cfm) per heat exchanger can be realised (winter air flow rate)
- Payback times of approx. 18 months (at 90% utilisation)
- Exchanger pipes with easy-clean, smooth surfaces
- Effective self-cleaning through vertical construction
- Suitable for both individual and common exhaust

The »exchange« air-air heat exchanger can be used both in new systems and also in existing ventilation systems, as a retrofit. It is possible to use the existing pipes. As such it is not necessary to completely modify the ventilation system.

The core component of the »exchange« air-air heat exchanger is a bundle of durable PVC tubes - modular and precisely fitted to the »AGROFLEX«[®] ventilation system in all dimensions.



Functional principle of »exchange«[®] air-air heat exchangers



»exchange« washer nozzle
For cleaning the exhaust air side heat exchanger pipes including retainer arm from stainless steel with 3/4" hose connector and nozzle.

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Technical specifications

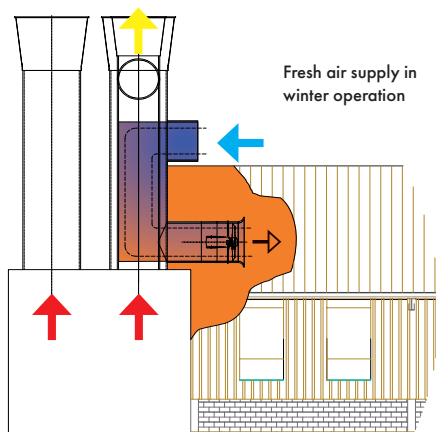
»exchange« air-air heat exchanger										
Diameter Ø	[mm]	920	1,090	1,090	1,090 DUO	1,090 DUO	1,270	1,270	1,270 DUO	1,270 DUO
Length	[m]	≈ 3	≈ 3	≈ 4	≈ 3	≈ 4	≈ 3	≈ 4	≈ 3	≈ 4
Air flow ¹	[m ³ /h]	4,660	7,500	7,500	15,000	15,000	10,180	10,180	20,360	20,360
Efficiency at 30K	[%]	50	50	54	50	54	52	57	52	57
Fresh air and exhaust air fan		E630-FF-D6-A5	E800-ST-D6-A7	E800-ST-D6-A7	E800-ST-D6-A7	E800-ST-D6-A7	E910-FF-D6-A3	E910-FF-D6-A3	E910-FF-D6-A3	E910-FF-D6-A3
Fresh air warming	[°C]	15	15	16	15	16	15	17	15	17
Capacity ²	[kW]	23	36	41	72	82	48	60	96	120
Weight	[kg]	129	164	209	328	418	185	244	369	487

All values taking into account the condensation of the exhaust air in the heat exchanger.

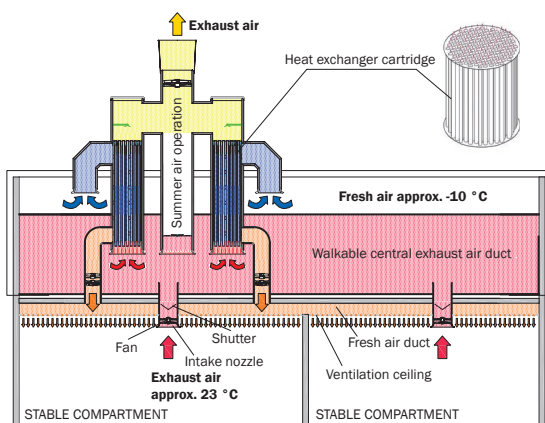
¹ Air flow at 20 Pa.

² Data on output in kW pertain to an assumed temperature difference between the fresh air and stable air of 30 Kelvin

Example of use in a poultry stable



Example of use in a pig stable



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