Modul

VEX4000-EX

VEX100 - CROSSFLOW HEAT EXCHANGER

The crossflow exchanger is suitable for kitchen or process ventilation, as the airflows are completely separated, which avoids transfer of contaminated air

PRODUCT BENEFITS

- Fully separated airflows to prevent the transfer of stale air or moisture between airflows
- Built-in bypass that allows outdoor air to be diverted completely or partially around the heat exchanger if heat recovery is not required.
- Choice of 4 different heat exchanger types (Standard, High aluminium, High aluminium ERP18 and Epoxy for corrosive environment.)

Principles of operation

The classic crossflow heat exchanger secures stable, economic operation and meets the requirement for separated air streams, so that neither contaminated air nor humidity are transferred from extract air to supply air.

A crossflow heat exchanger can achieve a temperature efficiency of up to 73 %, which can be an advantage in buildings with too high a heating surplus.

By-pass
For regulating the heat exchanger's performance, there are integral by-pass ducts which allow the outdoor air to be wholly or partly diverted round the heat exchanger. This can be utilised in the shoulder seasons, where there is no need for full heat recovery.

Condensation outlet
The crossflow heat exchanger module is fitted with corrosion-proof base trays, with a fall to the drain, allowing cleaning of the heat exchanger while mounted in the unit. The condensation drains have smooth piping and exit the panel on the operating side, where a water trap should be fitted.

Product description

The classic crossflow heat exchanger ensures stable, economical operation and fulfills the desire for separate airflows, so that neither polluted air nor humidity is transferred from extract air to supply air.Options:
- Standard crossflow heat exchanger in aluminium - for extraction and other purposes with no special requirement for high efficiency
- High aluminium crossflow heat exchanger - for higher efficiency
- Crossflow heat exchanger in high aluminium ERP18 - for extra high efficiency
- Epoxy-coated crossflow heat exchanger for particularly corrosive environments

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Reference arguments

Crossflow heat exchanger (EX)
FUNCTION AND APPLICATION
Description
The classic crossflow heat exchanger secures stable, economic operation and meets the requirement for separated air streams, so that neither contaminated air nor humidity are transferred from extract air to supply air.

A crossflow heat exchanger can achieve a temperature efficiency of up to 73 %, which can be an advantage in buildings with too high a heating surplus.

By-pass
For regulating the heat exchanger's performance, there are integral by-pass ducts which allow the outdoor air to be wholly or partly diverted round the heat exchanger. This can be utilised in the shoulder seasons, where there is no need for full heat recovery.

Condensation outlet
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Design options
Options:

- Standard crossflow heat exchanger in aluminium - for extraction and other purposes with no special requirement for high efficiency
- Crossflow heat exchanger in aluminium - for higher efficiency ratings
- Crossflow heat exchanger in aluminium ERP 18 - for extra high efficiency
- Epoxy-coated crossflow heat exchanger for particularly corrosive environments

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