FOCUS 200

COMPACT MECHANICAL VENTILATION HEAT RECOVERY (MVHR) UNIT
FOCUS F 200 WITH HUMITY RECOVERY
• MADE IN GERMANY •

PAUL
WÄRMERÜCKGEWINNUNG

WITH HUMIDITY RECOVERY

LED control unit
Listed in PEHA switch range

colored TFT touchscreen panel
within the high-grade steel framework

TECHNICAL DESCRIPTION

The PAUL MVHR unit focus 200 is used for controlled room ventilation (air flow rate: 60 to 200 m³/h). It is equipped with a highly efficient reverse flow duct heat exchanger (European patent). Its compact design – a right or left side version of the unit is available – offers an easy installation and an optimal routing of air ducts. The MVHR unit can be used for ventilation in all living areas up to 150 m².
The standard heat exchanger can optionally be replaced by a membrane moisture heat exchanger, which can reclaim a high percentage of the air humidity of the extract air. The intake air is cleaned by a G4 filter or, optionally, by a F7 pollen filter. The MVHR unit is protected from contamination by a G4 filter. The housing consists of galvanized, powder-coated sheet steel. The interior lining, made of high quality polypropylene, assures a high degree of heat- and sound insulation.
The system can either be controlled by a LED control unit or a colored TFT touchscreen panel with intuitional menu navigation, which assures an ideal communication with the ventilation unit.

The MVHR unit meets the high demands of energy efficiency and comfortable installation both because of the patented PAUL heat exchanger, the constant flow fans and the intuitional colored TFT touchscreen panel.

The intelligent control management offers the following functions:

- Ventilation steps: OFF, ABSENT, STEP 1, STEP 2, STEP 3, (with TFT touchscreen panel)
- Ventilation steps: OFF, ABSENT, STEP 1 to STEP 7 (with LED control unit)
- Individual programming per ventilation step in 1% increments for intake and extract air (60–200 m³/h)
- Weekly time programms configurable individually
- Automatic control system for external air quality sensors
- Digital communication interface for peripheral equipment
- Filter runtime control
- Frost protection for downstream hot water duct heater
- Software is configurable for shared use with fireplaces

Optional (additional module)

- Control of an exterenial defroster heating
- Control of heating circuit
- Control of electric regulating flap at GHX

Distribution by:

focus 200

TECHNICAL DATA

Dimensions:
H x W x D (mm): 542 x 752 x 355

Installation:
- horizontal wall mounting
- horizontal on mounting base

Place of installation:
Frost protected, preferably > 10 °C

Duct connections:
4 air ducts Ø 125 mm

Condensate:
Male thread 1¼"

Material:
Housing:
Galvanized steel, powder-coated
Thermal bridge free heat insulation
Heat exchanger:
- Polystyrene (standard heat exchanger)
- Salt ion membrane (moisture heat exchanger)

Weight:
25 kg

Filters:
Intake air: G4 or F7 (pollen filter)
Extract air: G4

Electrical connection:
230 V, 50 Hz, ready for connection, with plug

Cable lengths:
- Mains cable (230 VAC): 2 m
- CAT-5-cable: 1,5 m
- Variable between RJ-45 wall outlet and control modules / external components, by customer

Control:
Universal control

Protection:
IP 40

Fans:
EC radial fans with integrated electronics, V-constant control

Flow rate / Externally available pressure / Power input:

flow rate [m³/h]	externally available pressure [Pa]	power input [W]
85	44	20
83	69	24
207	104	90
103	101	34

Table 1: Selected performance data

Characteristics see Chart 1

Heat recovery rate:
90 %

Application limits:
Can be used between -20 °C to 40 °C

Frost protection:
- Frost protection control or
- Defroster heater (optional) or
- Ground heat exchanger (by customer)

Backup heating:
- Hot water backup duct heater or
- Electric duct heater (each as external unit)

Information:
Temporary technical information
Subject to change in the interest oftechnical progress.

Image 1: unit version LEFT

Image 2: unit version RIGHT

Image 3: position condensate connection LEFT unit version

Image 4: position condensate connection RIGHT unit version

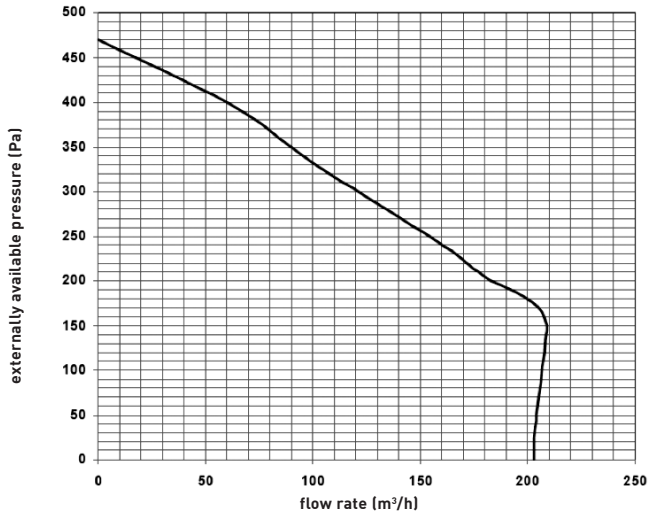

Chart 1: Characteristics for flow rate / externally available pressure

· Environment award
· Innovation awards
· European and German patents
· Product of the Year Award
· First Passiv Haus certified MVHR system
· Environment Oscar award
· INTEC award Saxony

„PAUL Ventilation Systems obtained innovation awards both on the German state and Saxon regional levels, received the German Environment Award (European-wide competition) as well as the Product of the Year and Environment Oscar awards."
PAUL heat recovery offers equipment for controlled residential ventilation with efficiencies of up to 99%, which is groundbreaking in the industry.
"New ideas in ventilation" is our vision - for fresh and healthy air in apartments with energy-saving technology for safeguarding the integrity of the environment.

PAUL
WÄRMERÜCKGEWINNUNG

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