

Certificate

Certified Passive House Component

For cool, temperate climates, valid until 31 December 2014

Passive House Institute
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GERMANY



Category: **Heat recovery unit**
Manufacturer: **Paul Wärmerückgewinnung GmbH**
08141 Reinsdorf, GERMANY
Product name: **novus F 300**

This certificate was awarded based on the following criteria:

Thermal comfort	$\theta_{\text{supply air}} \geq 16.5 \text{ °C}^{1)}$ at $\theta_{\text{outdoor air}} = -10 \text{ °C}$
Effective heat recovery rate	$\eta_{\text{HR,eff}} \geq 75\%$
Electric power consumption	$P_{\text{el}} \leq 0.45 \text{ Wh/m}^3$
Moisture recovery	Moisture recovery rate < 0.6 no Adjustment of air flow by means of moisture control required: yes
Airtightness	Interior and exterior air leakage rates less than 3% of nominal air flow rate
Balancing and adjustability	Air flow balancing possible: yes Automated air flow balancing: yes
Sound insulation	Sound level $L_w \leq 35 \text{ dB(A)}$ not met Here $L_w = 43.0 \text{ dB(A)}$ Unit must be installed in a separate building services room.
Indoor air quality	Outdoor air filter F7 Extract air filter G4
Frost protection	Frost protection for the heat exchanger with continuous fresh air supply down to $\theta_{\text{outdoor air}} = -15 \text{ °C}$

1) Only with additional heater coil in the supply air stream

Further information can be found in the appendix of this certificate.

**Certified for air
flow rates of**

121 - 231 m³/h

$\eta_{\text{HR,eff}}$

84%

**Average moisture
recovery**

$\eta_x=0.73$

**Electric power
consumption**

0.26 Wh/m³



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