

Certificate

Certified Passive House Component

For cool, temperate climates, valid until 31 December 2014

Passive House Institute
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Category: **Heat recovery unit**
Manufacturer: **Paul Wärmerückgewinnung GmbH**
08141 Reinsdorf, GERMANY
Product name: **maxiflat 600**

This certificate was awarded based on the following criteria:

Thermal comfort	$\theta_{\text{supply air}} \geq 16.5 \text{ °C}$ at $\theta_{\text{outdoor air}} = -10 \text{ °C}$
Effective heat recovery rate	$\eta_{\text{HR,eff}} \geq 75 \%$
Electric power consumption	$P_{\text{el}} \leq 0.45 \text{ Wh/m}^3$
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 pressure level $L_w \leq 35 \text{ dB(A)}$ not met Here $L_p = 56.5 \text{ dB(A)}$ Unit should be installed so that it is acoustically separated from living areas.
Indoor air quality	Outdoor air filter at least F7 Extract air filter at least G4
Frost protection	Frost protection for the heat exchanger with continuous fresh air supply down to $\theta_{\text{outdoor air}} = -15 \text{ °C}$

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

Certified for air flow rates of

118 – 453 m³/h

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

78 %

Electric power consumption

0.37 Wh/m³



CERTIFIED COMPONENT

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