

Certificate

Passive House suitable component

For cool, temperate climates, valid until 31 December 2012

Category: **Heat recovery unit**
Manufacturer: **PAUL Wärmerückgewinnung GmbH**
08141 Reinsdorf, GERMANY
Product name: **focus 200**

This certificate was awarded based on the following criteria:

Thermal comfort	$\Theta_{\text{supply air}} \geq 16.5 \text{ }^\circ\text{C}$ at $\theta_{\text{outdoor air}} = -10 \text{ }^\circ\text{C}$
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 $L_p \leq 35 \text{ dB(A)}$ based on a 4 m ² equivalent absorption area not met Here $L_p = 51.7 \text{ dB(A)}$ Unit must be installed in a separate building services room.
Indoor air quality	Outdoor air filter F7 Extract air filter G4
Frostprotection	Frost protection for the heat exchanger with continuous fresh air supply down to $\Theta_{\text{Outdoor air}} = -15 \text{ }^\circ\text{C}$

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

www.passivehouse.com

Passive House Institute
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Certified for air flow rates of

116 – 155 m³/h

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

91%

Electric power consumption

0.31 Wh/m³



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