

Certificate

Passive House suitable component

For cool, temperate climates, valid until 31 December 2012

Category: **Heat recovery unit**
Manufacturer: **Helios Ventilatoren GmbH+Co KG**
78056 Villingen Schwenningen,
GERMANY
Product name: **KWL EC 2000 D**

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	$P_{\text{el}} \leq 0.45 \text{ Wh/m}^3$
Performance number	≥ 10
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	It is assumed that large ventilation units are installed in a separate building services room. Sound levels documented in the appendix of this certificate
Indoor air quality	Outdoor air filter F7 Extract air filter G4
Frostprotection	Frost protection required Different strategies mentioned in the appendix of this certificate

- 1) Available pressure difference with installed filter: **200 Pa**.
Additional components (e.g. heater coil) decrease the available pressure difference accordingly.

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

www.passivehouse.com

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Certified for air flow rates of 650-1650 m³/h

At an external pressure of **250 Pa**¹⁾

Requirements non residential buildings (Therewith device also applicable for residential building)

$\eta_{\text{HR,eff}}$ **84%**

Electric power consumption
0.43 Wh/m³

Performance number
10



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