

Certificate

Passive House suitable component

For cool, temperate climates, valid until 31 December 2012

Category: **Heat recovery unit**
Manufacturer: **Zehnder Group Nederland B.V.**
8028 PM Zwolle, NETHERLANDS
Product name: **ComfoAir 550 (WHR 960)**

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: no
Sound insulation	Sound pressure level $L_p \leq 35 \text{ dB(A)}$ based on a 4 m ² equivalent absorption area not met Here $L_p = 48.1 \text{ dB(A)}$ 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.

1) up to 308 m³/h just with additional external freezing protection

www.passivehouse.com

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Certified for air flow rates of

**110 – 240
(308)¹⁾ m³/h**

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

84%

Electric power consumption

0.31 Wh/m³



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