

# Certificate

## Certified Passive House Component

For cool, temperate climates, valid until 31 December 2014

Passive House Institute  
Dr. Wolfgang Feist  
64283 Darmstadt  
GERMANY



Category: **Heat recovery unit**  
Manufacturer: **Zehnder Group Nederland B.V.**  
**8028 PM Zwolle, NETHERLANDS**  
Product name: **ComfoAir 350, ComfoD350, WHR930**

**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 level $L_w \leq 35 \text{ dB(A)}$ not met Here $L_w = 54.1 \text{ dB(A)}$ Unit should be installed so that it is acoustically separated from living areas
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.

**Certified for air flow rates of**

**71 – 293 m<sup>3</sup>/h**

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

**84%**

**Electric power consumption**

**0.29 Wh/m<sup>3</sup>**



**CERTIFIED COMPONENT**

Passive House Institute