

## **Certified Passive House Component**

For cool, temperate climates, valid until 31 December 2013

Category: Heat recovery unit

Manufacturer: Brink Climate Systems B.V.

7951 –DA Staphorst, NETHERLANDS

Product name: Renovent Excellent 300 4/0 (3/1) (Plus)

## This certificate was awarded based on the following criteria:

Thermal comfort	θ <sub>supply air</sub> ≥ 16.5 ℃
	at $\theta_{\text{outdoor air}} = -10  \text{°C}$
Effective heat recovery rate	η <sub>HR,eff</sub> ≥ 75 %
Electric power consumption	P <sub>el</sub> ≤ 0.45 Wh/m³
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 $L_p \le 35$ dB(A) based on a 4 m² equivalent absorption area not met Here $L_p = 47$ 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 $\theta_{\text{outdoor air}} = -15  ^{\circ}\mathbb{C}^{-1)}$

1) Only with additional anti freezing protection

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

Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY

Certified for air flow rates of

59 - 235 m<sup>3</sup>/h

 $\eta_{HR.eff}$ 

**84 %** (88% at 74 m<sup>3</sup>/h)

Electric power consumption

0.26 Wh/m<sup>3</sup>

