

# Certificate

## Certified Passive House Component

For cool, temperate climates, valid until 31 December 2015

Category: **Heat recovery unit**  
Manufacturer: **Menerga GmbH**  
**45473 Mülheim an der Ruhr,**  
**GERMANY**  
Product name: **Adconair 76 10 01**

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

Thermal comfort	$\Theta_{\text{supply air}} \geq 16.5 \text{ °C}$ at $\theta_{\text{outdoor air}} = -10 \text{ °C}$
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	$\geq 10$
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 are documented in the appendix of this certificate.
Indoor air quality	Outdoor air filter F7 Extract air filter G4
Frostprotection	Frost protection required Different strategies are mentioned in the appendix of this certificate

- 1) Available pressure difference with installed filter: **264 Pa**.  
Additional components (e.g. heater coil) decrease the available pressure difference accordingly.

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

**Certified for air flow rates of 3000 – 4500 m<sup>3</sup>/h**

At an external pressure of **316 Pa<sup>1)</sup>**

Requirements non residential buildings

(Therewith device also applicable for residential building)

$\eta_{\text{HR,eff}}$  **92%**  
**(4500 m<sup>3</sup>/h)**

$\eta_{\text{HR,eff}}$  **94%**  
**(3000 m<sup>3</sup>/h)**

**Electric power consumption**  
**0.42 Wh/m<sup>3</sup>**

**Performance number**  
**11**



**CERTIFIED COMPONENT**

Passive House Institute