

Certificate

Certified Passive House Component

For cool, temperate climates, valid until 31 December 2015

Passive House Institute
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GERMANY

Category: **Heat recovery unit**
 Manufacturer: **Menerga GmbH**
45473 Mülheim an der Ruhr,
GERMANY
 Product name: **Resolair 64 07 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	≥ 10
Airtightness	Interior and exterior air leakage rates less than 3% of nominal air flow rate. The exhaust air transfer exceeds 3% in the lower range of use. ²⁾
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 M5
Frost protection	no frost protection required, see 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.
- 2) Please take into account that in this regenerative heat recovery system, an exhaust transfer of more than 3% of exhaust air volume flow can occur. The use of exhaust air from rooms with a high degree of contamination must therefore be examined project-specific.
- 3) Regenerative heat recovery – applicability to be checked

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

Certified for air flow rates of 3000-4500 m³/h

At an external pressure of **316 Pa¹⁾**

Requirements non residential buildings

(Therewith device also applicable for residential building)

$\eta_{\text{HR,eff}}$ **86%**

Electric power consumption 0.45 Wh/m³

Performance number 10



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