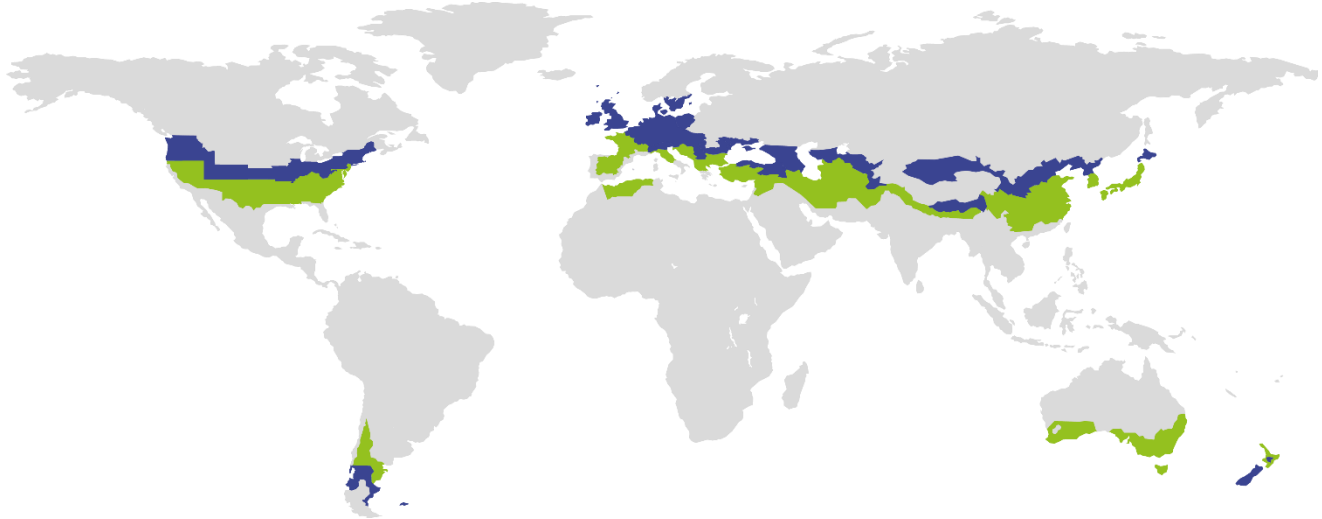


CERTIFICATE

Certified Passive House Component

Valid until 31st December 2019

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Air handling unit with heat recovery**
Manufacturer: **Menerga GmbH**
Germany
Product name: **Ventilation unit series**
Resolair 64 05 01 – 64 32 01

Specification: Airflow rate > 600 m³/h
Heat exchanger: Regenerative

This certificate was awarded based on the product meeting the following main criteria

Heat recovery rate	η_{HR}	\geq	75 %
Specific electric power	$P_{el,spec}$	\leq	0.45 Wh/m ³
Leakage		$<$	3 % ²⁾
Performance number		\geq	10
Comfort			Supply air temperature \geq 16.5 °C at outdoor air temperature of -10 °C

Airflow range
1000-15000 m ³ /h at an external pressure of 265-390 Pa ¹⁾ Requirements non-residential buildings (Therefore also applic- able for residential buildings)
Heat recovery rate
$\eta_{HR} \geq 86 \%$
Specific electric power
$P_{el,spec} \leq 0.45 \text{ Wh/m}^3$
Performance number
10

¹⁾ The pressure drop of filters is covered in the listed external pressure. Additional components (e.g. heating coil) decrease the available external pressure accordingly.

²⁾ It must be taken into account that in this regenerative heat recovery system an exhaust air transfer of more than 3 % of exhaust airflow volume occurs. The use of exhaust air from rooms with a high degree of contamination must therefore be examined project-specific.

