

Certificate

Certified Passive House Component

For cool, temperate climates, valid until 31 December 2018

Category: **Heat recovery unit**
Manufacturer: **J. PICHLER Gesellschaft m.b.H.**
9021 Klagenfurt, Austria
Product name: **LG 1000**

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
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 G4
Frost protection	Frost protection required Different strategies mentioned in the appendix of this certificate

1) Available pressure difference with installed filter: **195 Pa**.

2) Available pressure difference with installed filter: **158 Pa**.

Additional components (e.g. heater coil) decrease the available pressure difference accordingly.

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

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Certified for air flow rates of 450 – 1200 m³/h

At an external pressure of **233 Pa**¹⁾
(non residential)

and 450 – 1000 m³/h

At an external pressure of **187 Pa**²⁾
(residential)

$\eta_{\text{HR,eff}}$ **82%**
(non residential)

$\eta_{\text{WRG,eff}}$ **81%**
(residential)

Electric power consumption

0.40 Wh/m³
(non residential)

0.33 Wh/m³
(residential)

Performance number

11.2 (non residential)

13.2 (residential)



CERTIFIED COMPONENT

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