

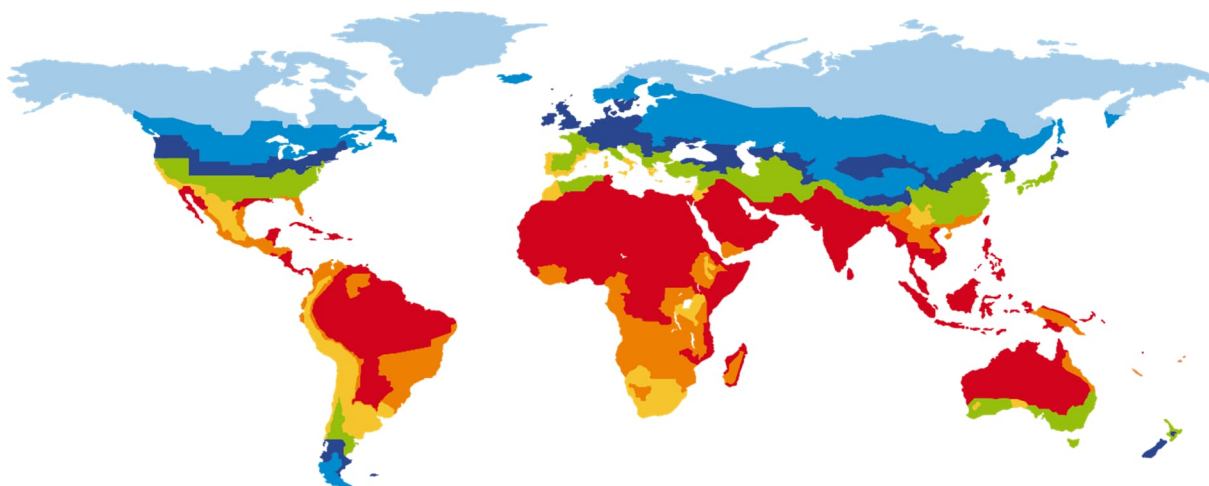
CERTIFICATE

Certified Passive House Component

Component-ID 2424ch03 and 2425ch03

valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Compact unit**
Manufacturer: **J. Pichler Gesellschaft m.b.H**
Austria
Product name: **PKOM4A¹⁾**

Type of heat pump:
Heat exchanger: recuperative

This certificate was awarded based on the product meeting the following main criteria (limit values):

Ventilation unit

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

Heat pump²⁾

Space heating	9 kWh/(m ² a)
Space Heating + DHW	20 kWh/(m ² a)
Space cooling (humid climate):	13 kWh/(m ² a)
Space cooling (dry climate):	11 kWh/(m ² a)

Ventilation unit's performance: ¹⁾³⁾

Airflow range
70-220 m ³ /h
Heat recovery rate
$\eta_{HR} = 78$ and 84 %
Specific electric power
$P_{el,spec} = 0.34$ and 0.29 Wh/m ³
Humidity recovery rate
$\eta_x = 64$ %

Heat pump's performance: ¹⁾

Heat Pump — space heating
6.7 kWh/(m ² a)
Heat Pump — Heating + DHW
12.5 kWh/(m ² a)
Cooling DRY
— kWh/(m ² a)
Cooling HUMID
— kWh/(m ² a)

¹⁾ all certified units and operational modes are listed in detail in the appendix of this certificate, see page 2 ff

²⁾ limit values for final energy (electricity) demand

³⁾ the unit is equipped with ventilation unit.

