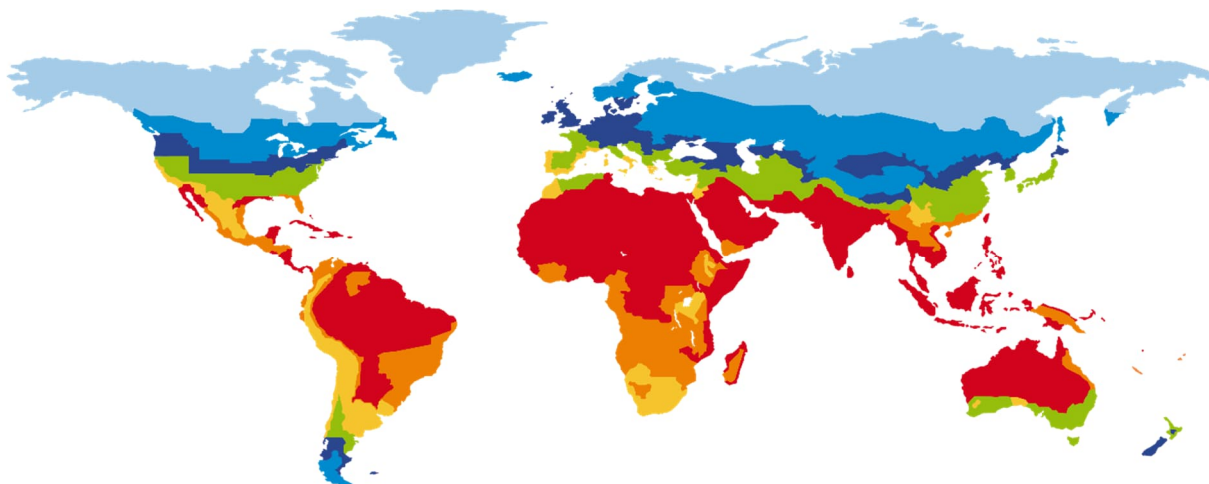


CERTIFICATE

Certified Passive House Component

Component-ID 2421ch03 and 2422ch03 and 2423ch03
valid until 31st December 2025

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany



Category: **Compact unit**
Manufacturer: **Nilan A/S**
Denmark
Product name: **Compact P2 (Combi 400)¹⁾**

Type of heat pump:
Heat exchanger: recuperative

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

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 pump ²⁾

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: ³⁾

Airflow range
70...340 m ³ /h
Heat recovery rate
η_{HR} = 81 and 85 %
Specific electric power
$P_{el,spec}$ = 0.24 and 0.21 Wh/m ³
Humidity recovery rate
η_x = — %

Heat pump's performance:

Heat Pump — space heating
8 and 7 kWh/(m ² a)
Heat Pump — Heating + DHW
16 and 15 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 Appendix of this certificate

²⁾ limit values for final energy (electricity) demand

³⁾ the unit is equipped with ventilation unit.

