



Daikin Altherma 3 R

ERGA04EAV3A +
EHVX04S18EA(3V/6V), EHVX04S18EJ(3V/6V),
EHVH04S18EA6V, EHVH04S18EJ6V

Assessment date: 23/05/2022
Organisation: Daikin Europe N.V.
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**Embodied Carbon Result with
CIBSE TM65 Mid-level Calculation:**

2,271 kg CO₂-eq

Product information

Type of product	Air to Water Heat Pump Systems	Unit of measurement
Capacity of equipment (cooling / heating)	5,66	kW
Product weight	176	kg
Material % breakdown for at least 95% of the product weight? Y/N	Y	
Product service life	17	years
If refrigerant based, type of refrigerant used and GWP	R32 / 677	kg CO ₂ -eq
Refrigerant charge	1,5	kg
Energy consumption of the factory per unit of product	80,57	kWh/Electricity - Europe
Location of manufacture	Belgium/Czech Republic, Europe	
Product complexity category	3	See CIBSE TM65 Table 4.3

Embodied carbon results (kg CO2-eq) — breakdown		
A1: Material extraction		777
A2: Transport		139
A3: Manufacturing		110
A4: Transport to site		35
B1: Use		691
B3: Repair		109
C1: Deconstruction		20
C2: Transport		2
C3: Waste processing		27
C4: Disposal		0.5
Embodied carbon results (kg CO2-eq) — without refrigerant leakage		
A1–C4 without buffer factor (excluding B1, C1)		1091
A1–C4 with buffer factor (excluding B1, C1)		1560
Embodied carbon results (kg CO2-eq) — refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)		711
Embodied carbon result with 'mid-level' calculation method (kg CO2-eq) — total		
Result of 'mid-level' calculation method		2271
Assumptions		
A1: Material carbon coefficient source	TM65 Table 2.1	Source = CIBSE TM65, Table 2.1
B1: Refrigerant annual leakage rate (%)	4	Source = CIBSE TM65, Table 4.13 type 2
C1: Refrigerant end of life recovery rate (%)	98	Source = CIBSE TM65, Table 4.13 type 2
B3: Materials replaced as part of repair (%)	10	Source = CIBSE TM65
C4: Percentage of product going to landfill (%)	30	Source = CIBSE TM65, Table 4.14

This calculation is for Daikin Altherma 3 R: ERGA04EAV3A + EHVX04S18EA(3V/6V), EHVX04S18EJ(3V/6V), EHVH04S18EA6V, EHVH04S18EJ6V.

We follow CIBSE TM65: 2021 standards.

Contact us

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