



Sky Air Alpha-series

FCAG71BVEB

Assessment date: 23/05/2022
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**Embodied Carbon Result with
CIBSE TM65 Mid-level Calculation:**

303 kg CO₂-eq

Product information

Type of product	Heat Pump	Unit of measurement
Capacity of equipment (cooling / heating)	6.80 / 7.50	kW
Product weight	21	kg
Material % breakdown for at least 95% of the product weight? Y/N	Y	
Product service life	15	years
If refrigerant based, type of refrigerant used and GWP	R32 / 677	- /kg CO ₂ -eq
Refrigerant charge	0	kg
Energy consumption of the factory per unit of product	6.05	kWh Electricity - Europe
Location of manufacture	Czech Republic, Europe	
Product complexity category	3	See CIBSE TM65 Table 4.3

Embodied carbon results (kg CO2-eq) — breakdown		
A1: Material extraction	181	
A2: Transport	17	
A3: Manufacturing	8	
A4: Transport to site	4	
B1: Use	0	
B3: Repair	21	
C2: Transport	0	
C3: Waste processing	2	
C4: Disposal	0.1	
Embodied carbon results (kg CO2-eq) — without refrigerant leakage		
A1–C4 without buffer factor (excluding B1, C1)	233	
A1–C4 with buffer factor (excluding B1, C1)	303	
Embodied carbon results (kg CO2-eq) — refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0	
Embodied carbon result with 'mid-level' calculation method (kg CO2-eq) — total		
Result of 'mid-level' calculation method	303	
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 Sky Air Alpha indoor unit : FCAG71BVEB.

We follow CIBSE TM65: 2021 standards.

Contact us

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