



VRV IV+ H/R

REYQ18U7Y1B

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

26,463 kg CO₂-eq

Product information

Type of product	VRF system	Unit of measurement
Capacity of equipment (cooling / heating)	50.4 / 27.9	kW
Product weight	317	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	R410A / 2,088	- /kg CO ₂ -eq
Refrigerant charge	11.8	kg
Energy consumption of the factory per unit of product	143	kWh Electricity - Europe
Location of manufacture	Belgium, Europe	
Product complexity category	3	See CIBSE TM65 Table 4.3

Embodied carbon results (kg CO2-eq) — breakdown		
A1: Material extraction	1933	
A2: Transport	242	
A3: Manufacturing	194	
A4: Transport to site	60	
B1: Use	22,175	
B3: Repair	248	
C1: Deconstruction	739	
C2: Transport	4	
C3: Waste processing	49	
C4: Disposal	0.8	
Embodied carbon results (kg CO2-eq) — without refrigerant leakage		
A1–C4 without buffer factor (excluding B1, C1)	2,731	
A1–C4 with buffer factor (excluding B1, C1)	3550	
Embodied carbon results (kg CO2-eq) — refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	22,914	
Embodied carbon result with 'mid-level' calculation method (kg CO2-eq) — total		
Result of 'mid-level' calculation method	26,463	
Assumptions		
A1: Material carbon coefficient source	TM65 Table 2.1	Source = CIBSE TM65, Table 2.1
B1: Refrigerant annual leakage rate (%)	6	Source = CIBSE TM65, Table 4.13 type 3
C1: Refrigerant end of life recovery rate (%)	97	Source = CIBSE TM65, Table 4.13 type 3
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 VRV IV+ H/R Outdoor unit : REYQ18U7Y1B.

We follow CIBSE TM65: 2021 standards.

Contact us

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