



VRV 5 H/R

REYA12A7Y1B

Assessment date: 02/09/2022
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Embodied Carbon Result with CIBSE TM65 Mid-level Calculation:

7,928 kg CO₂-eq

Product information

Type of product	VRF system	Unit of measurement
Capacity of equipment (cooling / heating)	33.5/33.5	kW
Product weight	204	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	9.0	kg
Energy consumption of the factory per unit of product	87.06	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	1228	
A2: Transport	162	
A3: Manufacturing	118	
A4: Transport to site	40	
B1: Use	5484	
B3: Repair	158	
C1: Deconstruction	183	
C2: Transport	3	
C3: Waste processing	30	
C4: Disposal	1	
Embodied carbon results (kg CO2-eq) — without refrigerant leakage		
A1–C4 without buffer factor (excluding B1, C1)	1740	
A1–C4 with buffer factor (excluding B1, C1)	2262	
Embodied carbon results (kg CO2-eq) — refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	5666	
Embodied carbon result with 'mid-level' calculation method (kg CO2-eq) — total		
Result of 'mid-level' calculation method	7928	
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 (%)	55	Source = CIBSE TM65, Table 4.14

This calculation is for VRV 5 H/R Outdoor unit.

Following the Ecodesign recommendations of achieving seasonal efficiency, Daikin recommends the Indoor Unit of combination 6 x FXSA50A2VEB with the Outdoor Unit REYA12A7Y1B to have maximum performance efficiency. Other combinations are also possible.

We follow CIBSE TM65: 2021 standards.

Contact us

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