



VRV IV S-series

RXYSQ4T8VB9

RXYSQ4T8YB9

Assessment date: 23/05/2022
Organisation: Daikin Europe N.V.
Contact address: embodiedcarbon@daikineurope.com

Embodied Carbon Result with CIBSE TM65 Mid-level Calculation:

8,194 kg CO₂-eq

Product information

Type of product	VRF system	Unit of measurement
Capacity of equipment (cooling / heating)	12.1 / 8.0	kW
Product weight	104	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	3.6	kg
Energy consumption of the factory per unit of product	45.76	kWh/year 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	659	
A2: Transport	82	
A3: Manufacturing	62	
A4: Transport to site	21	
B1: Use	6,765	
B3: Repair	84	
C1: Deconstruction	226	
C2: Transport	1	
C3: Waste processing	16	
C4: Disposal	0	
Embodied carbon results (kg CO2-eq) — without refrigerant leakage		
A1–C4 without buffer factor (excluding B1, C1)	926	
A1–C4 with buffer factor (excluding B1, C1)	1,203	
Embodied carbon results (kg CO2-eq) — refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	6,991	
Embodied carbon result with 'mid-level' calculation method (kg CO2-eq) — total		
Result of 'mid-level' calculation method	8,194	
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 S-series Outdoor unit : RXYSQ4T8VB9 and RXYSQ4T8YB9

We follow CIBSE TM65: 2021 standards.

Contact us

Call us on 01932 879000 or contact us via our website www.daikin.co.uk



Daikin Airconditioning UK Ltd.

The Heights, Brooklands, Weybridge, KT13 0NY Surrey - Company number: 04616794

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