



VRV IV+ H/R

FXFQ50AVEB

FXFQ50BVEB

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

Embodied Carbon Result with CIBSE TM65 Mid-level Calculation:

408 kg CO₂-eq

Product information

Type of product	VRF system	Unit of measurement
Capacity of equipment (cooling / heating)	5.60 / 6.30	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	R410A / 2,088	- /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	254	
A2: Transport	17	
A3: Manufacturing	8	
A4: Transport to site	4	
B1: Use	0	
B3: Repair	29	
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)	286	
A1–C4 with buffer factor (excluding B1, C1)	408	
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	408	
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 Indoor unit : FQSQ50AVEB and FXFQ50BVEB.

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

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin UK. Daikin UK has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin UK explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin UK.

Printed in the UK on FSC certified paper from responsible sources.