

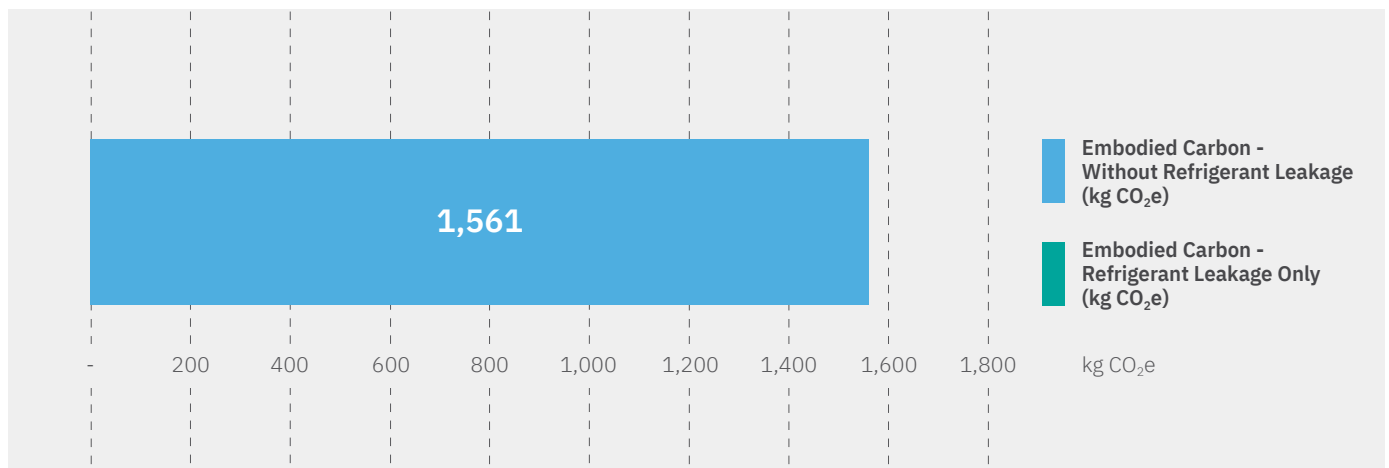
CMB-WM350F-AA

CIBSE TM65 Embodied Carbon Mid-level Calculation

Assesment Date:	22nd January 2024
Assessor / Organisation:	RI / Mitsubishi Electric LES UK
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Embodied Carbon with 'Mid-level TM65 Calculation' Method (kg CO₂e) Total:

1,561



CMB-WM350F-AA - Product Information

Type of product	VRF Indoor Unit
Capacity of equipment (kW)*	0
Product weight (kg)	196
Material breakdown for at least 95% of the product weight? (Y/N)	Y
Service life of the product (years)	15
Type of refrigerant	R32
Refrigerant GWP	675
Energy consumption of the factory per unit of product (kWh)	44.79207869
Location of manufacture	Japan
Product Complexity	Category 3: High



*Nominal cooling capacity conditions as per data book

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Embodied Carbon Results Breakdown (kg CO₂e)

A1: Material extraction	795
A2: Transport	155
A3: Manufacturing	80
A4: Transport to Site	46
B1: Use	-
B3: Repair	109
C1: Deconstruction	-
C2: Transport	3
C3: Waste Processing	13
C4: Disposal	1

Embodied Carbon Results - without Refrigerant Leakage (kg CO₂e)

A1-C4 (excluding B1,C1)	1,201
A1-C4 with Buffer Factor (excluding B1, C1)	1,561

Embodied Carbon Result - Refrigerant Leakage Only (kg CO₂e)

B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	-
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Assumptions

A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	6
C1: Refrigerant end of life recovery rate (%)	97
B3: Materials replaced as part of repair (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	30



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Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of June 2024

