

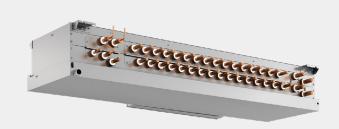
# CMB-WM108V-AA

### CIBSE TM65 Embodied Carbon Mid-level Calculation

**Embodied Carbon Result with Assesment Date:** 14th July 2021 'Mid-level TM65 Calculation' Assessor / **Method Total:** Organisation: Mitsubishi Electric **848** (kg CO<sub>2</sub>e) **Contact:** embodied.carbon@meuk.mee.com **Embodied Carbon Results** without Refrigerant Leakage (kg CO<sub>2</sub>e) 848 **Embodied Carbon Results -**Refrigerant Leakage Only (kg CO<sub>2</sub>e) 100 200 300 400 500 600 700 800 900 kg CO<sub>2</sub>e

#### CMB-WM108V-AA - Product Information

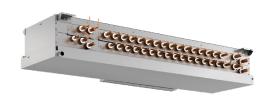
Type of product	Hybrid VRF BC Controller
Capacity of equipment (kW)	N/A
Product weight (kg)	86
Material breakdown for at least 95% of the product weight? (Y/N)	Υ
Service life of the product (years)	15
Type of refrigerant	R32
Refrigerant GWP	675
Energy consumption of the factory per unit of product (kWh)	44.79
Location of manufacture	Japan
Product Complexity	Category 3: High





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Embodied Carbon Results Breakdown (kg CO₂e)	
A1: Material extraction	405
A2: Transport	68
A3: Manufacturing	80
A4: Transport to Site	25
B1: Use	-
B3: Repair	59
C1: Deconstruction	-
C2: Transport	1
C3: Waste Processing	13
C4: Disposal	0

Ellibouled Calboli Results - Without Reffigerant Leakage (kg CO2e)	
A1-C4 (excluding B1,C1)	653
A1-C4 with Buffer Factor (excluding B1, C1)	848

### Embodied Carbon Result - Refrigerant Leakage Only (kg CO2e)

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

Embodied Carbon Bocults - without Befriderant Leakage (kg CO e)

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



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Note: The fuse rating is for guidance only. 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), R32 (GWP-675), R407C (GWP-1774), R134a (GWP-1430), R513A (GWP-631), R454B (GWP-631), R454B (GWP-631), R410A (GWP-1304), R513A (GWP-631), R407C (GWP-1650), R407C (GWP-1650) or R134a (GWP-1300).

Effective as of August 2021







