

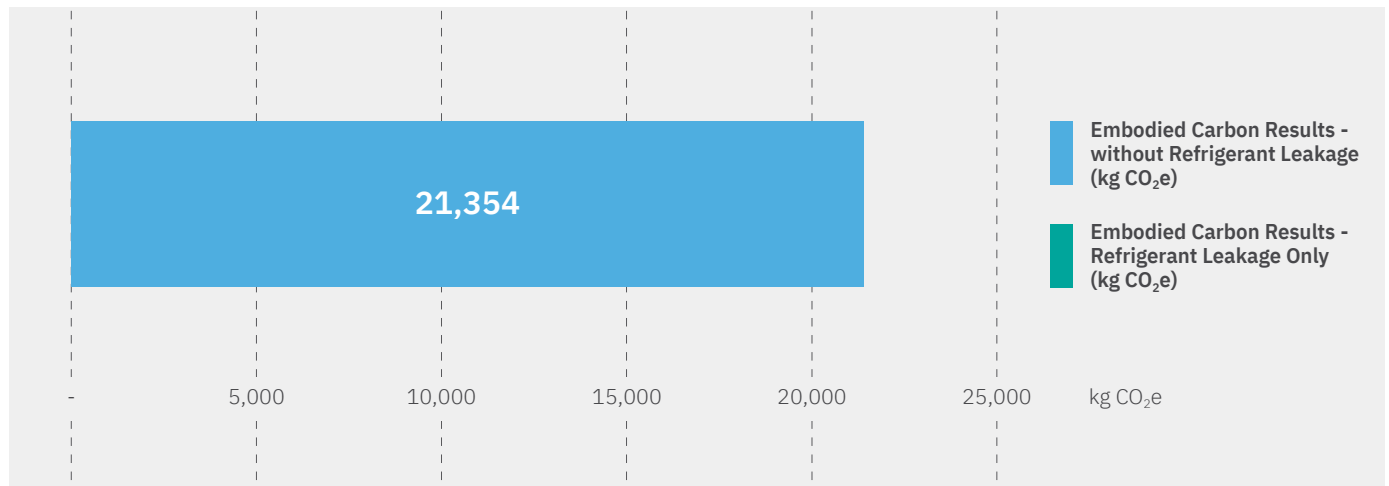
MEWALL 402

CIBSE TM65 Embodied Carbon Mid-level Calculation

Assesment Date: 3rd September 2025
Assessor / Organisation: Mitsubishi Electric LES UK
Contact: embodied.carbon@meuk.mee.com

Embodied Carbon with 'Mid-level TM65 Calculation' Method (kg CO₂e) Total:

21,354



MEWALL 402 - Product Information

Type of product	Air Handling Unit
Capacity of equipment (kW)	430
Product weight (kg)	2460
Material breakdown for at least 95% of the product weight? (Y/N)	Y
Service life of the product (years)	15
Type of refrigerant	N/A
Refrigerant GWP	N/A
Energy consumption of the factory per unit of product (kWh)	24.2
Location of manufacture	Europe
Product Complexity	Category 3: High





MEWALL 402

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO₂e)

A1: Material extraction	12,422
A2: Transport	1,948
A3: Manufacturing	33
A4: Transport to Site	483
B1: Use	N/A
B3: Repair	1,493
C1: Deconstruction	N/A
C2: Transport	32
C3: Waste Processing	7
C4: Disposal	7

Embodied Carbon Results - without Refrigerant Leakage (kg CO₂e)

A1-C4 (excluding B1,C1)	16,426
A1-C4 with Buffer Factor (excluding B1, C1)	21,354

Embodied Carbon Result - Refrigerant Leakage Only (kg CO₂e)

B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	N/A
--	-----

Assumptions

A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	2
C1: Refrigerant end of life recovery rate (%)	99
B3: Materials replaced as part of repair (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	30