



TM65

Mid-level Report

MM9LHD: 4 Tier 900 Large Cold Merch. (Front Hinged Door)

Assessment Date 12/02/2026

Manufacturer CED Fabrications

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Metrics

Embodied Carbon

2,888 kgCO₂e

Embodied Carbon Footprint



Product Information

Capacity of equipment/size (kW; m3; litres; etc.)	N/A
Product weight (kg)	272 kg
Material % breakdown for at least 95% of the product weight? (Y/N)	Y
Product service life (years)	10
If refrigerant based, type of refrigerant used and GWP	No refrigerant, Propane (R 290), 0.04 kgCO ₂ e
Refrigerant charge (kg)	0.41 kg
Energy consumption of the factory* per unit of product	85 kWh
Location of manufacture*	N/A
Product complexity category	3

Embodied carbon results (kg CO2e) — breakdown	
A1: Material extraction	1,571 kgCO2e
A2: Transport	216 kgCO2e
A3: Manufacturing	88 kgCO2e
A4: Transport to site	11 kgCO2e
A5: Construction	N/A
B1: Refrigerant leakage during use	0.33 kgCO2e
B2: Maintenance (if information given by manufacturer)	N/A
B3: Repair	289 kgCO2e
B4: Replacement	N/A
B5: Refurbishment	N/A
B6: Operational energy	N/A
B7: Operational water	N/A
C1: Refrigerant leakage when decommissioning	0.02 kgCO2e
C2: Transport	4 kgCO2e
C3: Waste processing	22 kgCO2e
C4: Disposal	1 kgCO2e

Embodied carbon results (kg CO2e) — without refrigerant leakage	
A1–C4 without buffer factor (excluding B1, C1)	2201 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	2861 kgCO2e

Embodied carbon result (kg CO2e) — refrigerant leakage only	
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0 kgCO2e

Embodied carbon result with 'mid-level' calculation method — total	
Result of 'mid-level' calculation method	2,888 kgCO2e

Assumptions	
A1: Material carbon coefficient source	CIBSE TM65, Table 2.1
B1: Refrigerant annual leakage rate (%)	N/A
C1: Refrigerant end of life recovery rate (%)	N/A
B3: Materials replaced as part of repair (%)	86
C4: Percentage of product going to landfill (%)	55