



TM65

Mid-level Report

MM9LHD + HDC9: 4 Tier 900 Large Cold Merch. (Front Hinged Door) + (Heavy Duty Castor)

Assessment Date 12/02/2026

Manufacturer CED Fabrications

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Metrics

Embodied Carbon

2,891 kgCO2e

Embodied Carbon Footprint



Product Information

Capacity of equipment/size (kW; m3; litres; etc.)	N/A
Product weight (kg)	273 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 kgCO2e
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	1,572 kgCO2e
A2: Transport	216 kgCO2e
A3: Manufacturing	89 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)	2204 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	2865 kgCO2e

Embodied carbon result (kg CO2e) — refrigerant leakage only

B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0 kgCO2e
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Embodied carbon result with 'mid-level' calculation method — total

Result of 'mid-level' calculation method	2,891 kgCO2e
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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

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