



TM65

Mid-level Report

Mid-level report for **MM1800LRHT + HDC18: 4 Tier 1800 Large Cold Merch. (Roller Shutter) + (Heavy Duty Castor)**

Assessment Date 18/08/2025

Manufacturer CED Fabrications

Contact Email sales@cedlimited.com

Metrics

Embodied Carbon
3,945 kgCO_{2e}

Embodied Carbon Footprint



- Material
- Manufacture
- Transport
- Refrigerant
- Waste
- Disposal

Product Information

Capacity of equipment/size (kW; m3; litres; etc.)	N/A
Product weight (kg)	382 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	Propane (R 290), No refrigerant, 0.04 kgCO _{2e}
Refrigerant charge (kg)	0.7 kg
Energy consumption of the factory* per unit of product	119 kWh
Location of manufacture*	N/A
Product complexity category	3

Embodied carbon results (kg CO2e) – breakdown	
A1: Material extraction	2,189 kgCO2e
A2: Transport	302 kgCO2e
A3: Manufacturing	124 kgCO2e
A4: Transport to site	15 kgCO2e
A5: Construction	N/A
B1: Refrigerant leakage during use	0.56 kgCO2e
B2: Maintenance (if information given by manufacturer)	N/A
B3: Repair	338 kgCO2e
B4: Replacement	N/A
B5: Refurbishment	N/A
B6: Operational energy	N/A
B7: Operational water	N/A
C1: Refrigerant leakage when decommissioning	0.03 kgCO2e
C2: Transport	5 kgCO2e
C3: Waste processing	31 kgCO2e
C4: Disposal	2 kgCO2e
Embodied carbon results (kg CO2e) – without refrigerant leakage	
A1–C4 without buffer factor (excluding B1, C1)	3007 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	3909 kgCO2e
Embodied carbon result (kg CO2e) – refrigerant leakage only	
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	1 kgCO2e
Embodied carbon result with 'mid-level' calculation method – total	
Result of 'mid-level' calculation method	3,945 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



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