



TM65

Mid-level Report

Mid-level report for **MM1800LRHT: 4 Tier 1800 Large Cold Merch. (Roller Shutter)**

Assessment Date 18/08/2025

Manufacturer CED Fabrications

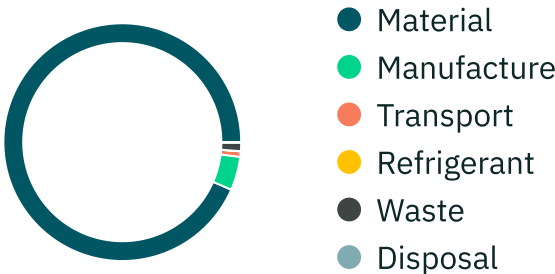
Contact Email sales@cedlimited.com

Metrics

Embodied Carbon

3,938 kgCO₂e

Embodied Carbon Footprint



Product Information

| | |
|--|---|
| Capacity of equipment/size (kW; m3; litres; etc.) | N/A |
| Product weight (kg) | 381 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 ₂ e |
| 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 | 2,186 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) | 3002 kgCO2e |
| A1–C4 with buffer factor (excluding B1, C1) | 3902 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 | 3,938 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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