



# TM65

## Mid-level Report

MM12LHD + HDC12: 4 Tier 1200 Large Cold Merch. (Front Hinged Door) + (Heavy Duty Castor)

Assessment Date 12/02/2026

Manufacturer CED Fabrications

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Metrics

Embodied Carbon

3,257 kgCO2e

Embodied Carbon Footprint



Product Information

|  |  |
|--|--|
| Capacity of equipment/size (kW; m3; litres; etc.)                  | N/A  |
| Product weight (kg)  | 320 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)  | 0.45 kg                                      |
| Energy consumption of the factory* per unit of product             | 100 kWh                                      |
| Location of manufacture*   | N/A  |
| Product complexity category  | 3  |

**Embodied carbon results (kg CO2e) – breakdown**

|  |              |
|--|--------------|
| A1: Material extraction                                | 1,778 kgCO2e |
| A2: Transport  | 254 kgCO2e   |
| A3: Manufacturing                                      | 104 kgCO2e   |
| A4: Transport to site                                  | 13 kgCO2e    |
| A5: Construction                                       | N/A          |
| B1: Refrigerant leakage during use                     | 0.36 kgCO2e  |
| B2: Maintenance (if information given by manufacturer) | N/A          |
| B3: Repair   | 302 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                                   | 26 kgCO2e    |
| C4: Disposal   | 2 kgCO2e     |

**Embodied carbon results (kg CO2e) – without refrigerant leakage**

|  |             |
|--|-------------|
| A1–C4 without buffer factor (excluding B1, C1) | 2482 kgCO2e |
| A1–C4 with buffer factor (excluding B1, C1)    | 3226 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 | 3,257 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 (%)    | 85                    |
| C4: Percentage of product going to landfill (%) | 55                    |

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