



# TM65

## Mid-level Report

Mid-level report for **MM1800SHT + HDC18: 3 Tier 1800 Slim Cold Merch. (Night Blind) + (Heavy Duty Castor)**

Assessment Date 19/08/2025

Manufacturer CED Fabrications

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| Metrics  |  |
|--|--|
| <div>Embodied Carbon</div> <div>3,041 kgCO2e</div>                 | <div>Embodied Carbon Footprint</div> <div> <ul style="list-style-type: none"> <li>Material</li> <li>Manufacture</li> <li>Transport</li> <li>Refrigerant</li> <li>Waste</li> <li>Disposal</li> </ul> </div> |
| Product Information  |  |
| Capacity of equipment/size (kW; m3; litres; etc.)                  | N/A  |
| Product weight (kg)  | 286 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 kgCO2e   |
| Refrigerant charge (kg)  | 0.5 kg   |
| Energy consumption of the factory* per unit of product             | 89 kWh   |
| Location of manufacture*   | N/A  |
| Product complexity category  | 3  |

| Embodied carbon results (kg CO2e) – breakdown                                 |                       |
|---|-----------------------|
| A1: Material extraction   | 1,665 kgCO2e          |
| A2: Transport   | 226 kgCO2e            |
| A3: Manufacturing   | 93 kgCO2e             |
| A4: Transport to site   | 11 kgCO2e             |
| A5: Construction  | N/A                   |
| B1: Refrigerant leakage during use  | 0.4 kgCO2e            |
| B2: Maintenance (if information given by manufacturer)                        | N/A                   |
| B3: Repair  | 298 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  | 23 kgCO2e             |
| C4: Disposal  | 1 kgCO2e              |
| Embodied carbon results (kg CO2e) – without refrigerant leakage               |                       |
| A1–C4 without buffer factor (excluding B1, C1)                                | 2321 kgCO2e           |
| A1–C4 with buffer factor (excluding B1, C1)                                   | 3018 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                                      | 3,041 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 (%)                                  | 76                    |
| C4: Percentage of product going to landfill (%)                               | 55                    |



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