

# TM65

## Mid-level Report



HBM3PS: 3-1Gn Designline Dry Heat Bain Marie & Heated Midshelf 1175mm (Self Help)

Assessment Date 01/10/2025

Manufacturer CED Fabrications

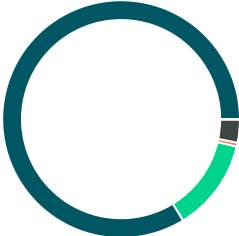
Contact Email sales@cedlimited.com

Metrics

Embodied Carbon

1,072 kgCO2e

Embodied Carbon Footprint



Material

Manufacture

Transport

Refrigerant

Waste

Disposal

| Product Information  |        |
|--|--------|
| Capacity of equipment/size (kW; m3; litres; etc.)                  | N/A    |
| Product weight (kg)  | 76 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             | N/A    |
| Refrigerant charge (kg)  | N/A    |
| Energy consumption of the factory* per unit of product             | 89 kWh |
| Location of manufacture*   | N/A    |
| Product complexity category  | 3      |

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| Embodied carbon results (kg CO2e) – breakdown                                 |                       |
|---|-----------------------|
| A1: Material extraction   | 525 kgCO2e            |
| A2: Transport   | 61 kgCO2e             |
| A3: Manufacturing   | 96 kgCO2e             |
| A4: Transport to site   | 3 kgCO2e              |
| A5: Construction  | N/A                   |
| B1: Refrigerant leakage during use  | 0 kgCO2e              |
| B2: Maintenance (if information given by manufacturer)                        | N/A                   |
| B3: Repair  | 115 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 kgCO2e              |
| C2: Transport   | 1 kgCO2e              |
| C3: Waste processing  | 24 kgCO2e             |
| C4: Disposal  | 0.37 kgCO2e           |
| Embodied carbon results (kg CO2e) – without refrigerant leakage               |                       |
| A1–C4 without buffer factor (excluding B1, C1)                                | 825 kgCO2e            |
| A1–C4 with buffer factor (excluding B1, C1)                                   | 1072 kgCO2e           |
| Embodied carbon result (kg CO2e) – refrigerant leakage only                   |                       |
| B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life) | N/A                   |
| Embodied carbon result with 'mid-level' calculation method – total            |                       |
| Result of 'mid-level' calculation method                                      | 1,072 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 (%)                                  | 10                    |
| C4: Percentage of product going to landfill (%)                               | 55                    |

# Bill of Materials

| Component name  | Manufacturer name | Quantity |
|---|-------------------|----------|
| HBM3B Dry Heat Bain Marie - Base  | CED Fabrications  | 1        |
| SH3PS 3-1Gn DESIGNLINE HEATED PS UNIT GANTRY OPTION 1175mm (SH) - c/w HEATED MIDSHELF | CED Fabrications  | 1        |