

TM65

Mid-level Report



HBM4+AS4: 4-1Gn Designline Dry Heat Bain Marie 1525mm (Ass. Serve)

Assessment Date 01/10/2025

Manufacturer CED Fabrications

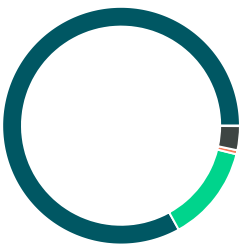
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Metrics

Embodied Carbon

1,124 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) | 83 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 | 97 kWh |
| Location of manufacture* | N/A |
| Product complexity category | 3 |

| Embodied carbon results (kg CO2e) – breakdown | |
|---|-----------------------|
| A1: Material extraction | 524 kgCO2e |
| A2: Transport | 66 kgCO2e |
| A3: Manufacturing | 104 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 | 139 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 | 26 kgCO2e |
| C4: Disposal | 0.41 kgCO2e |
| Embodied carbon results (kg CO2e) – without refrigerant leakage | |
| A1–C4 without buffer factor (excluding B1, C1) | 865 kgCO2e |
| A1–C4 with buffer factor (excluding B1, C1) | 1124 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 | 1,124 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 (%) | 9 |
| C4: Percentage of product going to landfill (%) | 55 |

Bill of Materials

| Component name | Manufacturer name | Quantity |
|--|-------------------|----------|
| AS4HOT Designline Heated Gantry - Assisted Service | CED Fabrications | 1 |
| HBM4B Dry Heat Bain Marie - Base | CED Fabrications | 1 |