



# TM65

## Mid-level Report

KHP4+KAS4: 4-1Gn Kubus Ceran Glass Hotplate 1525mm (Ass. Serve)

Assessment Date 01/10/2025

Manufacturer CED Fabrications


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**Metrics**

Embodied Carbon

891 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)  | 93 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             | 108 kWh |
| Location of manufacture*   | N/A     |
| Product complexity category  | 3       |

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| Embodied carbon results (kg CO <sub>2</sub> e) – breakdown                    |                          |
|---|--------------------------|
| A1: Material extraction   | 424 kgCO <sub>2</sub> e  |
| A2: Transport   | 74 kgCO <sub>2</sub> e   |
| A3: Manufacturing   | 117 kgCO <sub>2</sub> e  |
| A4: Transport to site   | 4 kgCO <sub>2</sub> e    |
| A5: Construction  | N/A                      |
| B1: Refrigerant leakage during use  | 0 kgCO <sub>2</sub> e    |
| B2: Maintenance (if information given by manufacturer)                        | N/A                      |
| B3: Repair  | 37 kgCO <sub>2</sub> e   |
| B4: Replacement   | N/A                      |
| B5: Refurbishment   | N/A                      |
| B6: Operational energy  | N/A                      |
| B7: Operational water   | N/A                      |
| C1: Refrigerant leakage when decommissioning                                  | 0 kgCO <sub>2</sub> e    |
| C2: Transport   | 1 kgCO <sub>2</sub> e    |
| C3: Waste processing  | 29 kgCO <sub>2</sub> e   |
| C4: Disposal  | 0.46 kgCO <sub>2</sub> e |
| Embodied carbon results (kg CO <sub>2</sub> e) – without refrigerant leakage  |                          |
| A1–C4 without buffer factor (excluding B1, C1)                                | 686 kgCO <sub>2</sub> e  |
| A1–C4 with buffer factor (excluding B1, C1)                                   | 891 kgCO <sub>2</sub> e  |
| Embodied carbon result (kg CO <sub>2</sub> e) – 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                                      | 891 kgCO <sub>2</sub> e  |
| 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 (%)                                  | 6                        |
| C4: Percentage of product going to landfill (%)                               | 55                       |

# Bill of Materials

| Component name  | Manufacturer name | Quantity |
|---|-------------------|----------|
| KAS4HOT 4-1Gn KUBUS HEATED<br>UNIT GANTRY OPTION 1525mm<br>(AS) | CED Fabrications  | 1        |
| HP4B 4-1Gn CERAN GLASS<br>HOTPLATE BASE 1525mm                  | CED Fabrications  | 1        |