

TM65

Mid-level Report



HBM3NG: 3-1Gn Designline Dry Heat Bain Marie (No Gantry) 1175mm (Self Help)

Assessment Date 01/10/2025

Manufacturer CED Fabrications

Contact Email sales@cedlimited.com

Metrics

Embodied Carbon

569 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)	35 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	41 kWh
Location of manufacture*	N/A
Product complexity category	3

Embodied carbon results (kg CO2e) – breakdown	
A1: Material extraction	243 kgCO2e
A2: Transport	28 kgCO2e
A3: Manufacturing	44 kgCO2e
A4: Transport to site	1 kgCO2e
A5: Construction	N/A
B1: Refrigerant leakage during use	0 kgCO2e
B2: Maintenance (if information given by manufacturer)	N/A
B3: Repair	110 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	0.46 kgCO2e
C3: Waste processing	11 kgCO2e
C4: Disposal	0.17 kgCO2e
Embodied carbon results (kg CO2e) – without refrigerant leakage	
A1–C4 without buffer factor (excluding B1, C1)	438 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	569 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	569 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 (%)	19
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
HCNG -Hot - Remote XW20L Controller Only (Hot Units - No Gantry)	CED Fabrications	1