



TM65

Mid-level Report

PC9HT: Designline HT Cold Freestanding Patisserie, self help, 900mm

Assessment Date 08/12/2025

Manufacturer CED Fabrications

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Metrics

Embodied Carbon

1,964 kgCO2e

Embodied Carbon Footprint



Product Information

Capacity of equipment/size (kW; m3; litres; etc.)	N/A
Product weight (kg)	190 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)	0.41 kg
Energy consumption of the factory* per unit of product	220 kWh
Location of manufacture*	N/A

Embodied carbon results (kg CO2e) — breakdown

A1: Material extraction	898 kgCO2e
A2: Transport	150 kgCO2e
A3: Manufacturing	238 kgCO2e
A4: Transport to site	8 kgCO2e
A5: Construction	N/A
B1: Refrigerant leakage during use	0.33 kgCO2e
B2: Maintenance (if information given by manufacturer)	N/A
B3: Repair	153 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	3 kgCO2e
C3: Waste processing	60 kgCO2e
C4: Disposal	0.93 kgCO2e

Embodied carbon results (kg CO2e) — without refrigerant leakage

A1–C4 without buffer factor (excluding B1, C1)	1511 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	1964 kgCO2e

Embodied carbon result (kg CO2e) — refrigerant leakage only

B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0 kgCO2e
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Embodied carbon result with 'mid-level' calculation method — total

Result of 'mid-level' calculation method	1,964 kgCO2e
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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 (%)	4
C4: Percentage of product going to landfill (%)	55

