

# TM65

## Mid-level Report



KCW4HT+AF1: 4-1Gn Kubus Cold Well 1525mm (Self Help) + (Airflow Kit In/Out Customer Side)

Assessment Date 30/10/2025

Manufacturer CED Fabrications

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Metrics

Embodied Carbon  
**2,078** kgCO2e

Embodied Carbon Footprint



Product Information

Capacity of equipment/size (kW; m3; litres; etc.)	N/A
Product weight (kg)	138 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)	0.42 kg
Energy consumption of the factory* per unit of product	161 kWh
Location of manufacture*	N/A
Product complexity category	3

Embodied carbon results (kg CO2e) – breakdown	
A1: Material extraction	930 kgCO2e
A2: Transport	110 kgCO2e
A3: Manufacturing	174 kgCO2e
A4: Transport to site	5 kgCO2e
A5: Construction	N/A
B1: Refrigerant leakage during use	0.34 kgCO2e
B2: Maintenance (if information given by manufacturer)	N/A
B3: Repair	333 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	2 kgCO2e
C3: Waste processing	43 kgCO2e
C4: Disposal	0.68 kgCO2e
Embodied carbon results (kg CO2e) – without refrigerant leakage	
A1–C4 without buffer factor (excluding B1, C1)	1598 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	2077 kgCO2e
Embodied carbon result (kg CO2e) – refrigerant leakage only	
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0 kgCO2e
Embodied carbon result with 'mid-level' calculation method – total	
Result of 'mid-level' calculation method	2,078 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 (%)	57
C4: Percentage of product going to landfill (%)	55