



TM65

Mid-level Report

GCW5HT + GAIG5: Glide Cold Island Well - Cold Well + Ambient Island Gantry (S.Help) 5-1Gn

Assessment Date 09/04/2026

Manufacturer CED Fabrications

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Metrics

Embodied Carbon

2,168 kgCO2e

Embodied Carbon Footprint



Product Information

Capacity of equipment/size (kW; m3; litres; etc.)	N/A
Product weight (kg)	199 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	No refrigerant, Propane (R 290), 0.04 kgCO2e
Refrigerant charge (kg)	0.585 kg
Energy consumption of the factory* per unit of product	231 kWh
Location of manufacture*	N/A
Product complexity category	3

Embodied carbon results (kg CO2e) — breakdown	
A1: Material extraction	1,051 kgCO2e
A2: Transport	158 kgCO2e
A3: Manufacturing	250 kgCO2e
A4: Transport to site	8 kgCO2e
A5: Construction	N/A
B1: Refrigerant leakage during use	0.47 kgCO2e
B2: Maintenance (if information given by manufacturer)	N/A
B3: Repair	135 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	62 kgCO2e
C4: Disposal	0.97 kgCO2e
Embodied carbon results (kg CO2e) — without refrigerant leakage	
A1–C4 without buffer factor (excluding B1, C1)	1668 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	2168 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	2,168 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 (%)	4
C4: Percentage of product going to landfill (%)	55