



# TM65

## Mid-level Report

GCW2HT + GAIG2: Glide Cold Island Well - Cold Well + Ambient Island Gantry (S.Help) 2-1Gn

Assessment Date 09/04/2026

Manufacturer CED Fabrications

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Metrics

Embodied Carbon

1,343 kgCO2e

Embodied Carbon Footprint



Product Information

Capacity of equipment/size (kW; m3; litres; etc.)	N/A
Product weight (kg)	119 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)	0.285 kg
Energy consumption of the factory* per unit of product	139 kWh
Location of manufacture*	N/A
Product complexity category	3

**Embodied carbon results (kg CO2e) — breakdown**

A1: Material extraction	636 kgCO2e
A2: Transport	95 kgCO2e
A3: Manufacturing	150 kgCO2e
A4: Transport to site	5 kgCO2e
A5: Construction	N/A
B1: Refrigerant leakage during use	0.23 kgCO2e
B2: Maintenance (if information given by manufacturer)	N/A
B3: Repair	108 kgCO2e
B4: Replacement	N/A
B5: Refurbishment	N/A
B6: Operational energy	N/A
B7: Operational water	N/A
C1: Refrigerant leakage when decommissioning	0.01 kgCO2e
C2: Transport	2 kgCO2e
C3: Waste processing	37 kgCO2e
C4: Disposal	0.59 kgCO2e

**Embodied carbon results (kg CO2e) — without refrigerant leakage**

A1–C4 without buffer factor (excluding B1, C1)	1033 kgCO2e
A1–C4 with buffer factor (excluding B1, C1)	1343 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	1,343 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

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