



TM65

Mid-level Report

MDF2HT: 2-1Gn Designline Cold Multideck 825mm - Fixed Back (Self Help)

Assessment Date 29/10/2025

Manufacturer CED Fabrications

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Metrics

Embodied Carbon

1,585 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) | 153 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) | 0.48 kg |
| Energy consumption of the factory* per unit of product | 178 kWh |
| Location of manufacture* | N/A |
| Product complexity category | 3 |

| Embodied carbon results (kg CO2e) – breakdown | |
|---|-----------------------|
| A1: Material extraction | 731 kgCO2e |
| A2: Transport | 121 kgCO2e |
| A3: Manufacturing | 192 kgCO2e |
| A4: Transport to site | 6 kgCO2e |
| A5: Construction | N/A |
| B1: Refrigerant leakage during use | 0.38 kgCO2e |
| B2: Maintenance (if information given by manufacturer) | N/A |
| B3: Repair | 117 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 | 48 kgCO2e |
| C4: Disposal | 0.75 kgCO2e |
| Embodied carbon results (kg CO2e) – without refrigerant leakage | |
| A1–C4 without buffer factor (excluding B1, C1) | 1219 kgCO2e |
| A1–C4 with buffer factor (excluding B1, C1) | 1585 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 | 1,585 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 |