

EHWT17D-MHEDW

CIBSE TM65 Embodied Carbon Mid-level Calculation



EHWT17D-MHEDW - Product Information

Type of product	W2W Heat Pump
Capacity of equipment (kW)	7
Product weight (kg)	166
Material breakdown for at least 95% of the product weight? (Y/N)	Y
Service life of the product (years)	15
Type of refrigerant	R32
Refrigerant GWP	675
Energy consumption of the factory per unit of product (kWh)	30.014
Location of manufacture	UK
Product Complexity	Category 3: High





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Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material extraction	624
A2: Transport	131
A3: Manufacturing	73
A4: Transport to Site	7
B1: Use	182
B3: Repair	85
C1: Deconstruction	6
C2: Transport	2
C3: Waste Processing	9
C4: Disposal	0

Embodied Carbon Results - without Refrigerant Leakage (kg $\mathrm{CO}_2\mathrm{e}$)	
A1-C4 (excluding B1,C1)	931
A1-C4 with Buffer Factor (excluding B1, C1)	1,210

Embodied Carbon Result - Refrigerant Leakage Only (kg CO₂e)

B1 (Refrigerant leakage	during use) + C1	(Refrigerant leakage e	nd of life)
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Assumptions	
A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	2 (TM65 Assumption)
C1: Refrigerant end of life recovery rate (%)	99 (TM65 Assumption)
B3: Materials replaced as part of repair (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	30 (TM65 Assumption)



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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP-2088), R82 (GWP-365), R405C (GWP-41), "These GWP values are based on Regulation (EU) No 517/2014 from IPCC 3th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP-1975), R32 (GWP-3550), R407C (GWP-1650) or R1344 (GWP-1300).

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