

PUZ-WZ60VAA

CIBSE TM65 Embodied Carbon Mid-level Calculation



Assessment date:29th of September 2023Assessor:Residential Product MarketingOrganisation:Mitsubishi ElectricContact:embodied.carbon@meuk.mee.com

Embodied Carbon Result with 'Mid-level TM65 Calculation' Method Total:

611.3 (kg CO₂e)



PUZ-WZ60VAA - Product Information

Type of product	A2W Heat Pump
Capacity of equipment (kW)	6
Product weight (kg)	89
Material breakdown for at least 95% of the product weight? (Y/N)	Y
Service life of the product (years)	15
Type of refrigerant	R290
Refrigerant GWP*	3
Energy consumption of the factory per unit of product (kWh)	26.657
Location of manufacture	UK
Product Complexity	Category 3: High
*IPCC AR5	





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Embodied Carbon Results Breakdown (kg CO ₂ e)	
A1: Material extraction	314.6
A2: Transport	70.5
A3: Manufacturing	31.8
A4: Transport to Site	0.7
B1: Use	1.1
B3: Repair	42.7
C1: Deconstruction	0.0
C2: Transport	1.2
C3: Waste Processing	7.7
C4: Disposal	0.2

Embodied Carbon Results - without Refrigerant Leakage (kg $\mathrm{CO}_2\mathrm{e}$)	
A1-C4 (excluding B1,C1)	469.4
A1-C4 with Buffer Factor (excluding B1, C1)	610.2

Embodied Carbon Result - Refrigerant Leakage Only (kg CO₂e)

Assumptions	
A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	2
C1: Refrigerant end of life recovery rate (%)	99
B3: Materials replaced as part of repair (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	30
B6: Grid emmission factors	HM Greenbook Data



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