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PUZ-M200-YKA2

CIBSE TM65 Embodied Carbon Mid-level Calculation

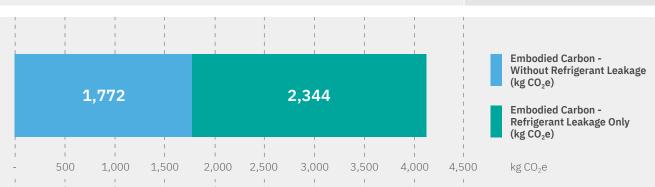
Assesment Date:	2nd April
Assessor / Organisation:	RI / Mitsu
Contact:	embodied

nd April 2024 I / Mitsubishi Electric LES UK mbodied.carbon@meuk.mee.com

Embodied Carbon with 'Mid-level TM65 Calculation' Method (kg CO₂e) Total:

4,115

Embodied Carbon Result per kW (kg CO₂e/kW):



PUZ-M200-YKA2 - Product Information

Type of product	Split Type Outdoor Unit
Capacity of equipment (kW)*	19
Product weight (kg)	129
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)	25.14
Location of manufacture	Asia
Product Complexity	Category 3: High



*Nominal cooling capacity conditions as per data book



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Embodied Carbon Results Breakdown (kg CO_2e)	
A1: Material extraction	991
A2: Transport	102
A3: Manufacturing	106
A4: Transport to Site	31
B1: Use	2,268
B3: Repair	124
C1: Deconstruction	76
C2: Transport	2
C3: Waste Processing	7
C4: Disposal	0

Embodied Carbon Results - without Refrigerant Leakage (kg CO_2e)	
A1-C4 (excluding B1,C1)	1,363
A1-C4 with Buffer Factor (excluding B1, C1)	1,772

Embodied Carbon Result - Refrigerant Leakage Only (kg CO₂e)

B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	2,344
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Assumptions	
A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	4
C1: Refrigerant end of life recovery rate (%)	98
B3: Materials replaced as part of repair (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	30



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Note: The fuse repeating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electricial-relectrical 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), R290 (GWP-37), R32 (GWP-675), R407C (GWP-1774), R134a (GWP-1430), R513A (GWP-31), R454B (GWP-4676), R407C (GWP-1424) (GWP-10) or R134a (GWP-1430), R513A (GWP-31), R454B (GWP-4676), R407C (GWP-174), No.626/2011 from IPCC 74 edition, these are as follows. R410A (GWP-157), R20 (GWP-550), R407C (GWP-1600) or R134a (GWP-1300).

Effective as of June 2024



