

# PUZ-ZM140YKA2

## CIBSE TM65 Embodied Carbon Mid-level Calculation

**Assesment Date:** 

2nd April 2024

**Assessor / Organisation:** 

RI / Mitsubishi Electric LES UK

Contact:

embodied.carbon@meuk.mee.com

### Embodied Carbon with 'Mid-level TM65 Calculation' Method (kg CO<sub>2</sub>e) Total:

3,163

Embodied	Carbon Re	sult per kW	/ (kg CO <sub>2</sub> e/	kW):	Capacit	ies (kW)*		13.4 236
	1	,656			1,507			Embodied Carbon - Without Refrigerant Leakage (kg CO <sub>2</sub> e)  Embodied Carbon - Refrigerant Leakage Only (kg CO <sub>2</sub> e)
-	500	1,000	1,500	2,000	2,500	3,000	3,500	kg CO₂e

#### PUZ-ZM140YKA2 - Product Information

Split Type Outdoor Unit
13.4
118
Υ
15
R32
675
25.14
UK
Category 3: High



<sup>\*</sup>Nominal cooling capacity conditions as per data book



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Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material extraction	998
A2: Transport	93
A3: Manufacturing	30
A4: Transport to Site	28
B1: Use	1,458
B3: Repair	116
C1: Deconstruction	49
C2: Transport	2
C3: Waste Processing	7
C4: Disposal	0

Ellibodied Carbon Results - Without Reinigerant Leakage (kg CO2e)				
A1-C4 (excluding B1,C1)	1,274			
A1-C4 with Buffer Factor (excluding B1, C1)	1,656			

<b>Embodied Carbon I</b>	Result - Refrigerant Lea	ikage Only (kg CO <sub>2</sub> e)

Embodied Carbon Bosults - without Bofridarant Loakada (kd CO a)

B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life) 1,507

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



Telephone: 01707 282880 email: embodied.carbon@meuk.mee.com les.mitsubishielectric.co.uk



Mitsubishi Electric Livino Environmental Systems UK









UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 International code: (003531)

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Note: 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), R290 (GWP-30), R32 (GWP-675), R407C (GWP-1774), R134a (GWP-1430), R513A (GWP-631), R454B (GWP-44C) (GWP-148), R1234ze (GWP-7) or R1244 (GWP-1430), R513A (GWP-6750), R407C (GWP-1670) or R134a (GWP-1300).

Effective as of June 2024









