

## PLA-ZM100/125/140EA2

### CIBSE TM65 Embodied Carbon Mid-level Calculation

**Assesment Date:** 26th February 2024

**Assessor / Organisation:** RI / Mitsubishi Electric LES UK

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

405

						Са	ıpacities	(kW)*	9.5		12.5	13.4
Embodied	d Carbor	n Result p	er kW (k	kg CO <sub>2</sub> e/	kW):				43		32	30
				405						Wit (kg Eml	bodied Carbor hout Refrigera CO <sub>2</sub> e) bodied Carbor rigerant Leaka CO <sub>2</sub> e)	ant Leakage n -
		i					 			(NS	0020)	
-	50	100	150	200	250	300	350	400	450	kg (	CO <sub>2</sub> e	

#### PLA-ZM100/125/140EA2 - Product Information

olit Type Indoor Uni
5 / 12.5 / 13.4
5
5
32
75
0.01
K
ategory 3: High



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



## PLA-ZM100/125/140EA2

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material extraction	174
A2: Transport	21
A3: Manufacturing	73
A4: Transport to Site	7
B1: Use	-
B3: Repair	28
C1: Deconstruction	-
C2: Transport	0
C3: Waste Processing	9
C4: Disposal	0

Embodied Carbon Results - Without Refrigerant Leakage (kg CO <sub>2</sub> e)	
A1-C4 (excluding B1,C1)	311
A1-C4 with Buffer Factor (excluding B1, C1)	405

#### Embodied Carbon Result - Refrigerant Leakage Only (kg CO2e)

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

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 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









