

## PUMY-P300YBM

## CIBSE TM65 Embodied Carbon Mid-level Calculation

**Assesment Date:** 1st May 2022

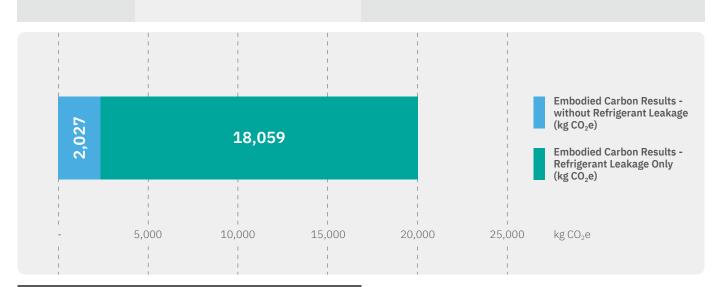
Assessor /
Organisation:

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

**20,087** (kg CO<sub>2</sub>e)



## PUMY-P300YKM - Product Information

Type of product	VRF Outdoor Unit
Capacity of equipment (kW)	33.5
Product weight (kg)	196
Material breakdown for at least 95% of the product weight? (Y/N)	Υ
Service life of the product (years)	15
Type of refrigerant	N/A
Refrigerant GWP	N/A
Energy consumption of the factory per unit of product (kWh)	9.479
Location of manufacture	Asia
Product Complexity	Category 3: High





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Embodied Carbon Results Breakdown (kg CO₂e)	The same of the sa
A1: Material extraction	1,178
A2: Transport	155
A3: Manufacturing	32
A4: Transport to Site	47
B1: Use	17,477
B3: Repair	142
C1: Deconstruction	583
C2: Transport	2.6
C3: Waste Processing	3
C4: Disposal	0.5

Embodied Carbon Results - Without Reingerant Leakage (kg CO <sub>2</sub> e)	
A1-C4 (excluding B1,C1)	1,560
A1-C4 with Buffer Factor (excluding B1, C1)	2,027

Embodied Carbon Result - Refrigerant Leakage Unity (kg CO2e)	
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	18,059

Assumptions	
A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	<b>6</b> (TM65 Assumption)
C1: Refrigerant end of life recovery rate (%)	97 (TM65 Assumption)
B3: Materials replaced as part of repair (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	<b>30</b> (TM65 Assumption)



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Note: The fuse rating is for guidance only. 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), R32 (GWP-675), R407C (GWP-1774), R134a (GWP-1430), R513A (GWP-631), R454B (GWP-631), R454B (GWP-631), R410A (GWP-1304), R513A (GWP-631), R407C (GWP-1650), R407C (GWP-1650) or R134a (GWP-1300).

Effective as of June 2022







