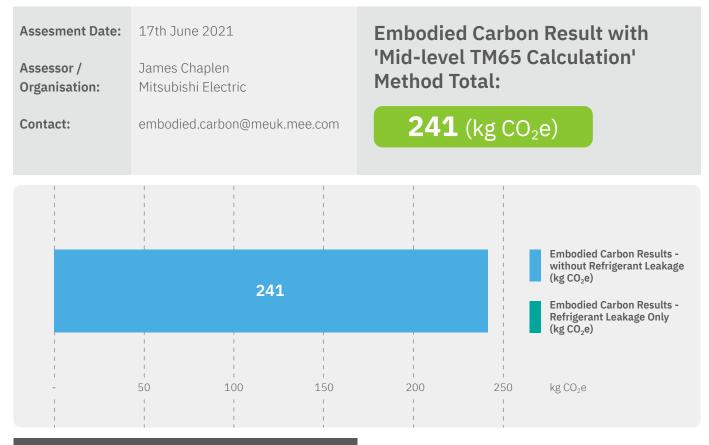


# PKFY-P63VKM-E

### CIBSE TM65 Embodied Carbon Mid-level Calculation



#### **PKFY-P63VKM - Product Information**

Type of product	VRF Indoor Unit
Capacity of equipment (kW)	7.1
Product weight (kg)	21
Material breakdown for at least 95% of the product weight? (Y/N)	N
Service life of the product (years)	15
Type of refrigerant	R32 / R410A
Refrigerant GWP	675 / 2088
Energy consumption of the factory per unit of product (kWh)	9.479
Location of manufacture	Asia
Product Complexity	Category 3: High





## PKFY-P63VKM-E

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material extraction	115
A2: Transport	17
A3: Manufacturing	32
A4: Transport to Site	1
B1: Use	-
B3: Repair	17
C1: Deconstruction	
C2: Transport	0.3
C3: Waste Processing	2.7
C4: Disposal	0.1

Embodied Carbon Results - without Refrigerant Leakage (kg $\rm CO_2e$ )	
A1-C4 (excluding B1,C1)	185
A1-C4 with Buffer Factor (excluding B1, C1)	241

#### Embodied Carbon Result - Refrigerant Leakage Only (kg CO<sub>2</sub>e)

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 (%)	6 (TM65 Assumption)
C1: Refrigerant end of life recovery rate (%)	97 (TM65 Assumption)
B3: Materials replaced as part of repair (%)	<b>10</b> (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-2089), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:465), R1234ze (GWP-7) or R12344 (GWP-7) or R12344 (GWP-1370) or R1344 (GWP:1430), R513A (GWP:

Effective as of June 2022



