

PKFY-P63/100VKM-E

CIBSE TM65 Embodied Carbon Mid-level Calculation

Assesment D Assessor / O Contact:			ıbishi Electric	: LES UK euk.mee.com				
Embodiec Calculatic				269				
				Сара	cities (kW)*		7.1	11.2
Embodied Ca	arbon Result	per kW (kg (CO ₂ e/kW):				38	24
	269						Embodied Carbon - Without Refrigerant Leakage (kg CO ₂ e) Embodied Carbon -	
-	50	100	150	200	250	300		nt Leakage Only

PKFY-P63/100VKM-E - Product Information

Type of product	VRF Indoor Unit		
Capacity of equipment (kW)*	7.1/11.2		
Product weight (kg)	21		
Material breakdown for at least 95% of the product weight? (Y/N)	Y		
Service life of the product (years)	15		
Type of refrigerant	R410A		
Refrigerant GWP	2088		
Energy consumption of the factory per unit of product (kWh)	14.67		
Location of manufacture	Japan		
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	132
A2: Transport	17
A3: Manufacturing	30
A4: Transport to Site	5
B1: Use	-
B3: Repair	19
C1: Deconstruction	-
C2: Transport	0
C3: Waste Processing	4
C4: Disposal	0

Embodied Carbon Results - without Refrigerant Leakage (kg CO_2e)	
A1-C4 (excluding B1,C1)	207
A1-C4 with Buffer Factor (excluding B1, C1)	269

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 (%)	6
C1: Refrigerant end of life recovery rate (%)	97
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

@meuk les y @green_gateway



mitsubishielectricuk_les



BLOG thehub.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881 IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

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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 September 2023



