

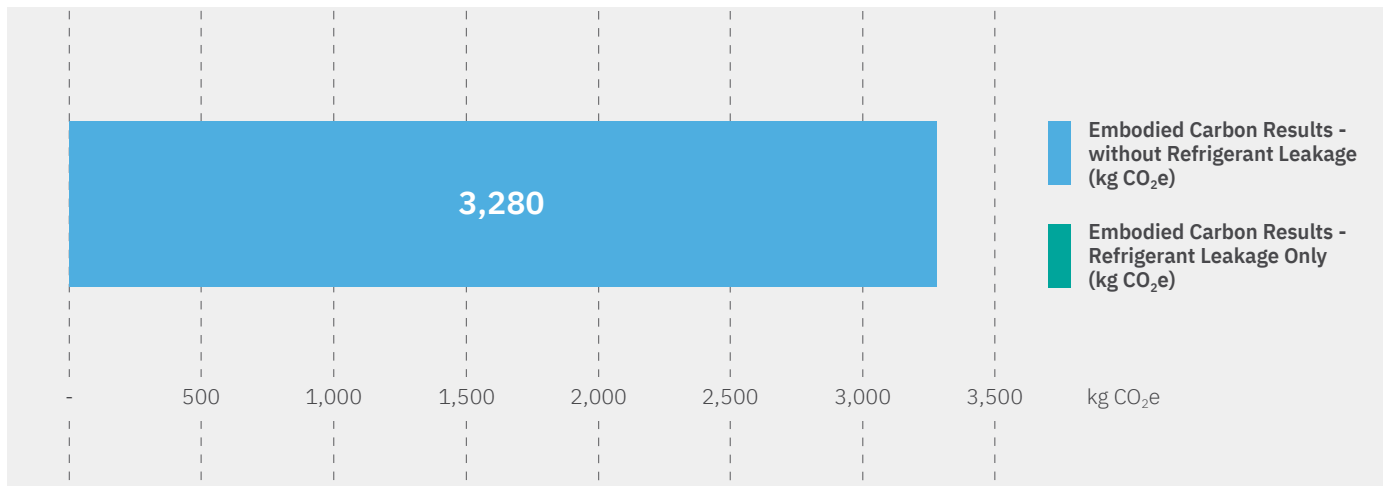
w-NEXT S U 045 E3P

CIBSE TM65 Embodied Carbon Mid-level Calculation

Assesment Date: 3rd September 2025
Assessor / Organisation: Mitsubishi Electric LES UK
Contact: embodied.carbon@meuk.mee.com

Embodied Carbon with 'Mid-level TM65 Calculation' Method (kg CO₂e) Total:

3,280



w-NEXT S U 045 E3P - Product Information

Type of product	Split Type Indoor
Capacity of equipment (kW)	47.9
Product weight (kg)	329
Material breakdown for at least 95% of the product weight? (Y/N)	Y
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)	6.6
Location of manufacture	Europe
Product Complexity	Category 3: High





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CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO₂e)

A1: Material extraction	1,944
A2: Transport	261
A3: Manufacturing	9
A4: Transport to Site	73
B1: Use	N/A
B3: Repair	229
C1: Deconstruction	N/A
C2: Transport	4
C3: Waste Processing	2
C4: Disposal	1

Embodied Carbon Results - without Refrigerant Leakage (kg CO₂e)

A1-C4 (excluding B1,C1)	2,523
A1-C4 with Buffer Factor (excluding B1, C1)	3,280

Embodied Carbon Result - Refrigerant Leakage Only (kg CO₂e)

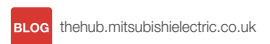
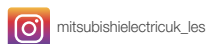
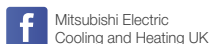
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	N/A
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Assumptions

A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	2
C1: Refrigerant end of life recovery rate (%)	99
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), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). *These GWP values are based on IPCC 6th edition.

Effective as of September 2025

