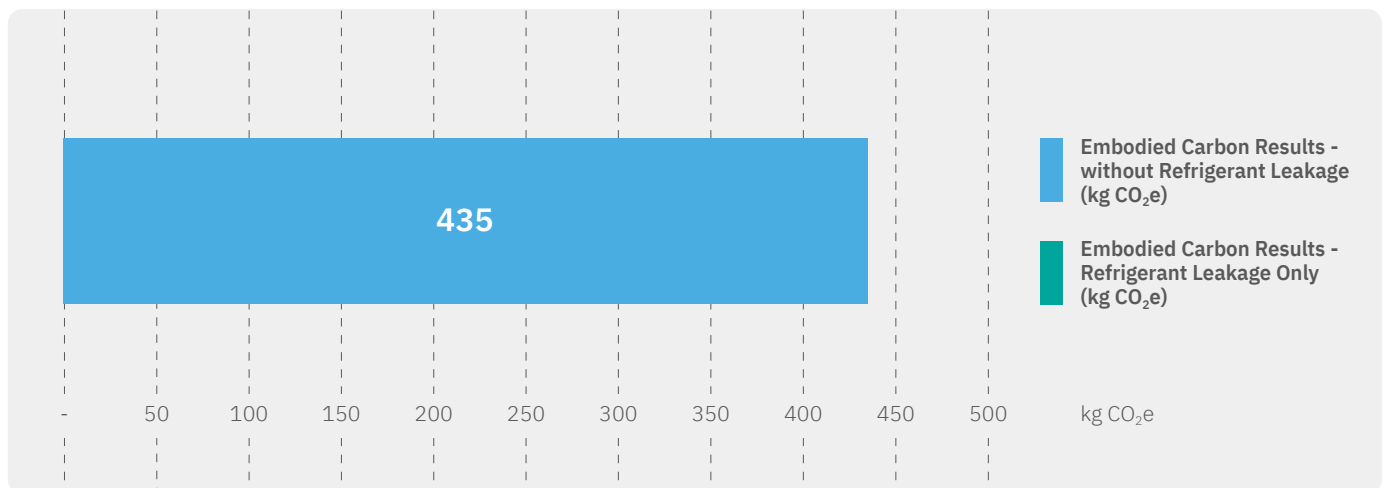


LGH-100RVX-E

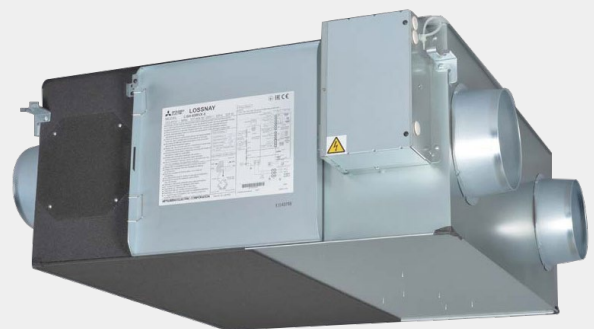
CIBSE TM65 Embodied Carbon Mid-level Calculation

Assesment Date:	22nd June 2021	Embodied Carbon Result with 'Mid-level TM65 Calculation' Method Total: <div style="background-color: #4CAF50; color: white; padding: 10px; border-radius: 10px; display: inline-block; font-weight: bold; font-size: 1.2em;">435 (kg CO₂e)</div>
Assessor / Organisation:	Mitsubishi Electric	
Contact:	embodied.carbon@meuk.mee.com	



LGH-100RVX-E - Product Information

Type of product	MVHR
Capacity of equipment (kW)	N/A
Product weight (kg)	54
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)	5.15
Location of manufacture	Japan
Product Complexity	Category 3: High





LGH-100RVX-E

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg CO₂e)

A1: Material extraction	237
A2: Transport	43
A3: Manufacturing	9
A4: Transport to Site	13
B1: Use	N/A
B3: Repair	30
C1: Deconstruction	N/A
C2: Transport	1
C3: Waste Processing	1
C4: Disposal	0.23

Embodied Carbon Results - without Refrigerant Leakage (kg CO₂e)

A1-C4 (excluding B1,C1)	334
A1-C4 with Buffer Factor (excluding B1, C1)	435

Embodied Carbon Result - Refrigerant Leakage Only (kg CO₂e)

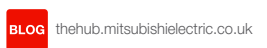
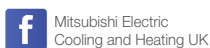
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	-
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Assumptions

A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	N/A
C1: Refrigerant end of life recovery rate (%)	N/A
B3: Materials replaced as part of repair (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	60 (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:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of July 2021

