

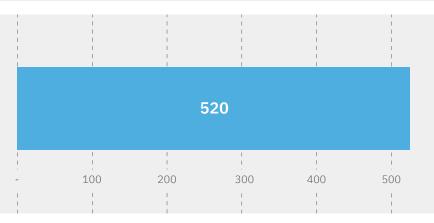
# LGH-50RVS-E

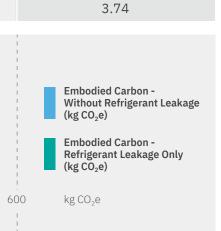
### CIBSE TM65 Embodied Carbon Mid-level Calculation

Assesment Date:	30th March 2023
Assessor / Organisation:	RI / Mitsubishi Electric LES UK
Contact:	embodied.carbon@meuk.mee.com

### Embodied Carbon with 'Mid-level TM65 Calculation' Method (kg CO<sub>2</sub>e) Total:

Embodied Carbon Result per kW (kg  $CO_2e/kW$ ):





**520** 

#### LGH-50RVS-E - Product Information

Type of product	MVHR
Airflow at 100%(l/s)*	139
Product weight (kg)	55
Material breakdown for at least 95% of the product weight? (Y/N)	Y
Service life of the product (years)	15
Type of refrigerant	R32
Refrigerant GWP	675
Energy consumption of the factory per unit of product (kWh)	18.52
Location of manufacture	Japan
Product Complexity	Category 3: High



\*Airflow rate tested to ISO 16494 (winter condition)

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# LGH-50RVS-E

CIBSE TM65 Embodied Carbon Mid-level Calculation

Embodied Carbon Results Breakdown (kg $CO_2e$ )	
A1: Material extraction	257
A2: Transport	44
A3: Manufacturing	33
A4: Transport to Site	14
B1: Use	-
B3: Repair	36
C1: Deconstruction	-
C2: Transport	1
C3: Waste Processing	16
C4: Disposal	0

Embodied Carbon Results - without Refrigerant Leakage (kg $\rm CO_2e$ )	
A1-C4 (excluding B1,C1)	400
A1-C4 with Buffer Factor (excluding B1, C1)	520

#### 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 (%)	2
C1: Refrigerant end of life recovery rate (%)	99
B3: Materials replaced as part of repair (%)	<b>10</b> (TM65 Assumption)
C4: Percentage of product going to landfill (%)	30



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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:465), R1234ze (GWP-7) or R12344 (GWP-7) or R12344 (GWP-7) or R12344 (GWP-637), or R12344 (GWP-637), R454B (GWP:4550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of October 2023



