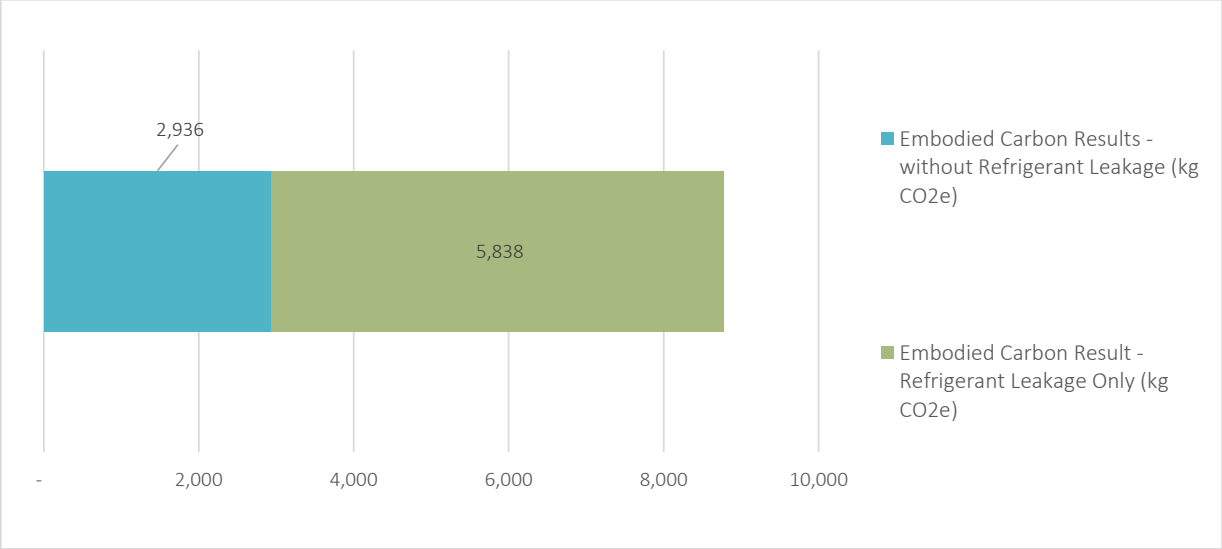
TM65 Embodied Carbon Mid-level Calculation

PURY-M350YXM-A

General Information	
Date of assessment	27/04/2026
Name of assessor and organisation	RI/Mitsubishi Electric
Contact details of assessor	embodied.carbon@meuk.mee.com

Embodied Carbon Result with 'Mid-level TM65 Calculation' Method (kg CO_2e) - Total	
Result (kgCO_2e) - Total	8,775
Embodied Carbon Result per kW (kg CO_2e/kW)	
Result (kgCO_2e/kW)	219.36



Product Information	
Type of product	VRF Outdoor Unit
Capacity of equipment [kW]*	40.00
Product weight (kg)	322.00
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 [kW]	1.19
Location of manufacture	Asia
Product Complexity	Category 3: High

*Nominal cooling capacity conditions as per data book

TM65 Embodied Carbon Mid-level Calculation

PURY-M350YXM-A

Embodied Carbon Results Breakdown (kg CO_2e)	
A1: Material extraction	1723.34
A2: Transport	247.66
A3: Manufacturing	4.02
A4: Transport to Site	72.49
B1: Use	5649.75
B3: Repair	205.35
C1: Deconstruction	188.33
C2: Transport	4.13
C3: Waste Processing	1.00
C4: Disposal	0.83

Embodied Carbon Results - without Refrigerant Leakage (kg CO_2e)	
A1-C4 (excluding B1,C1)	2,259
A1-C4 with Buffer Factor (excluding B1, C1)	2,936

Embodied Carbon Result - Refrigerant Leakage Only (kg CO_2e)	
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	5,838

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

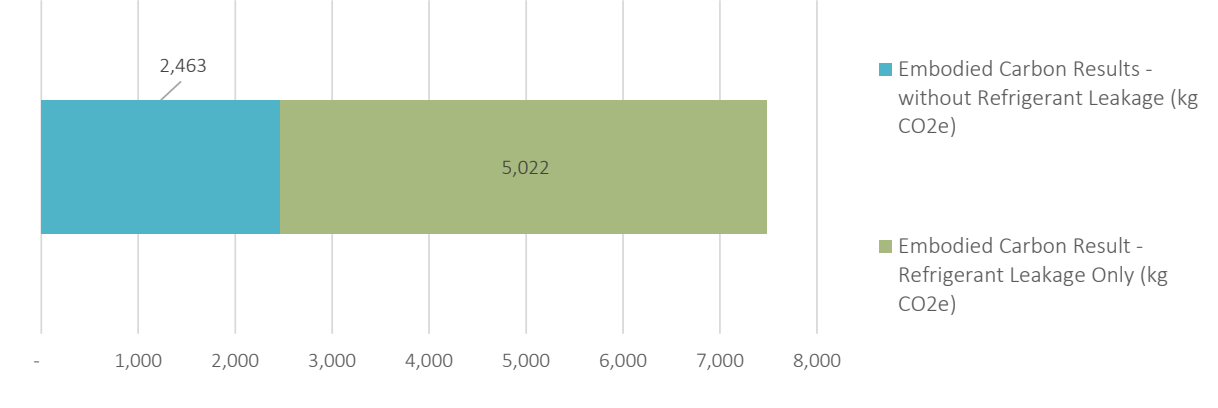
TM65 Embodied Carbon Mid-level Calculation

PURY-M200_250_300YXM-A

General Information	
Date of assessment	27/04/2026
Name of assessor and organisation	RI/Mitsubishi Electric
Contact details of assessor	embodied.carbon@meuk.mee.com

Embodied Carbon Result with 'Mid-level TM65 Calculation' Method (kg CO_2e) - Total	
Result (kgCO_2e) - Total	7,485

Embodied Carbon Result per kW (kg CO_2e/kW)	Capacity [kW]	
Result (kgCO_2e/kW)	22.4	334.16
	28	267.32
	33.5	223.44



Product Information	
Type of product	VRF Outdoor Unit
Capacity of equipment [kW]*	22.4/28/33.5
Product weight (kg)	266.00
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 [kW]	0.97
Location of manufacture	Asia
Product Complexity	Category 3: High

*Nominal cooling capacity conditions as per data book

TM65 Embodied Carbon Mid-level Calculation

PURY-M200_250_300YXM-A

Embodied Carbon Results Breakdown (kg CO_2e)	
A1: Material extraction	1449.98
A2: Transport	204.34
A3: Manufacturing	3.27
A4: Transport to Site	59.94
B1: Use	4860.00
B3: Repair	172.24
C1: Deconstruction	162.00
C2: Transport	3.41
C3: Waste Processing	0.82
C4: Disposal	0.69

Embodied Carbon Results - without Refrigerant Leakage (kg CO_2e)	
A1-C4 (excluding B1,C1)	1,895
A1-C4 with Buffer Factor (excluding B1, C1)	2,463

Embodied Carbon Result - Refrigerant Leakage Only (kg CO_2e)	
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	5,022

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

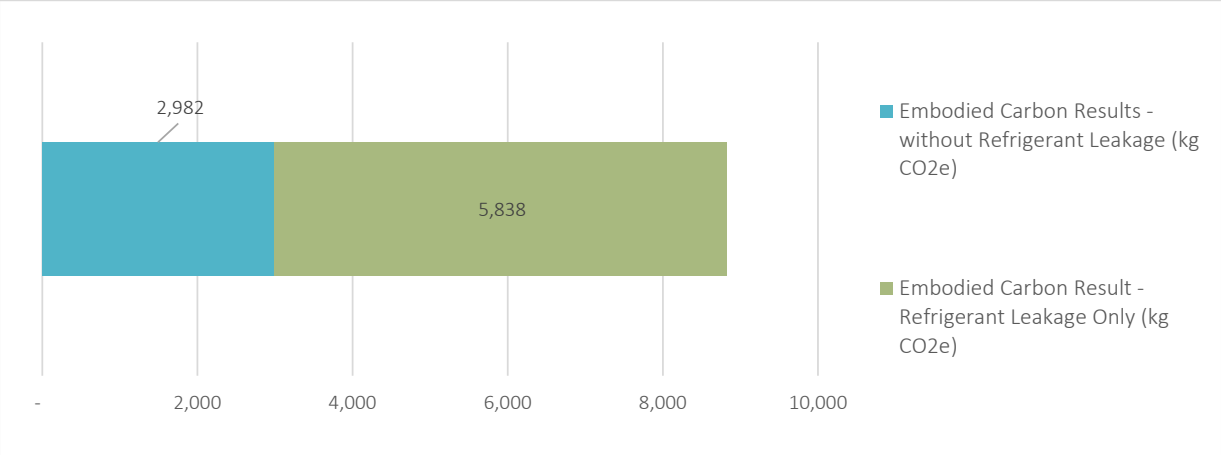
TM65 Embodied Carbon Mid-level Calculation

PURY-M400_450_500YXM-A

General Information	
Date of assessment	27/04/2026
Name of assessor and organisation	RI/Mitsubishi Electric
Contact details of assessor	embodied.carbon@meuk.mee.com

Embodied Carbon Result with 'Mid-level TM65 Calculation' Method (kg CO_2e) - Total	
Result (kgCO_2e) - Total	8,820

Embodied Carbon Result per kW (kg CO_2e/kW)	Capacity [kW]	
Result (kgCO_2e/kW)	45	196.00
	50	176.40
	56	157.50



Product Information	
Type of product	VRF Outdoor Unit
Capacity of equipment [kW]*	45/50/56
Product weight (kg)	327.00
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 [kW]	1.19
Location of manufacture	Asia
Product Complexity	Category 3: High

*Nominal cooling capacity conditions as per data book

TM65 Embodied Carbon Mid-level Calculation

PURY-M400_450_500YXM-A

Embodied Carbon Results Breakdown (kg CO_2e)	
A1: Material extraction	1750.10
A2: Transport	251.62
A3: Manufacturing	4.02
A4: Transport to Site	73.58
B1: Use	5649.75
B3: Repair	208.54
C1: Deconstruction	188.33
C2: Transport	4.19
C3: Waste Processing	1.00
C4: Disposal	0.85

Embodied Carbon Results - without Refrigerant Leakage (kg CO_2e)	
A1-C4 (excluding B1,C1)	2,294
A1-C4 with Buffer Factor (excluding B1, C1)	2,982

Embodied Carbon Result - Refrigerant Leakage Only (kg CO_2e)	
B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	5,838

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