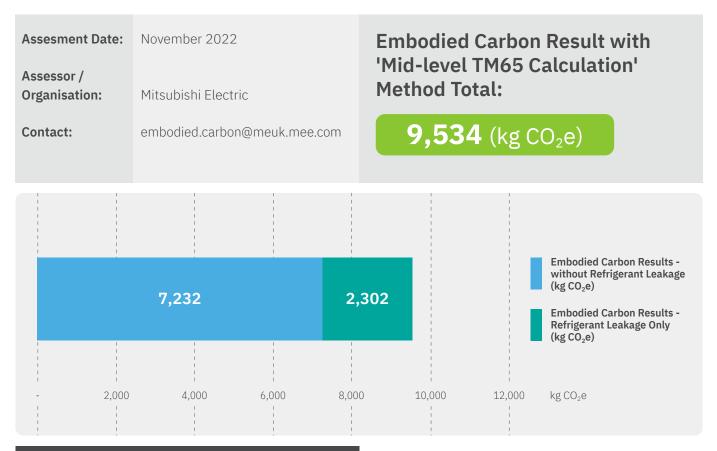


## MECH-iS-G07 /0082

CIBSE TM65 Embodied Carbon Mid-level Calculation



## MECH-iS-G07 /0082 - Product Information

Chiller
80
835
Y
15
R32
675
159
Europe
Category 3: High





## MECH-iS-G07 /0082

CIBSE TM65 Embodied Carbon Mid-level Calculation



Embodied Carbon Results Breakdown (kg CO <sub>2</sub> e)	
A1: Material extraction	3,945
A2: Transport	661
A3: Manufacturing	216
A4: Transport to Site	175
B1: Use	2,228
B3: Repair	506
C1: Deconstruction	74
C2: Transport	11
C3: Waste Processing	46
C4: Disposal	2

Embodied Carbon Results - without Refrigerant Leakage (kg $\rm CO_2e$ )	
A1-C4 (excluding B1,C1)	5,563
A1-C4 with Buffer Factor (excluding B1, C1)	7,232

## Embodied Carbon Result - Refrigerant Leakage Only (kg CO<sub>2</sub>e)

B1 (Refrigerant leakage during use) + C1 (Refrigerant leakage end of life)	2,302
	_,

Assumptions	
A1: Material carbon coefficient source	TM65 Table 2.1 & The ICE Database
B1: Refrigerant annual leakage rate (%)	2 (TM65 Assumption)
C1: Refrigerant end of life recovery rate (%)	99 (TM65 Assumption)
B3: Materials replaced as part of repair (%)	<b>10</b> (TM65 Assumption)
C4: Percentage of product going to landfill (%)	<b>30</b> (TM65 Assumption)



Telephone: 01707 282880 email: embodied.carbon@meuk.mee.com les.mitsubishielectric.co.uk

f





Mitsubishi Electric Cooling and Heating UK initsubishielectricuk\_les

les Mitsubishi Electric Living Environmental Systems UK

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 8800 International code: (003531)

Country of origin: United Kingdom - Italy - Turkey - Japan - Thailand - Malaysia. @Mitsubishi Electric Europe 2022, Mitsubishi and Mitsubishi Electric are trademarks of Mitsubishi Electric Europe B.V. The company reserves the right to make any variation in technical specification to the equipment described, or to withdraw or replace products without prior notification or public announcement. Mitsubishi Electric is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. All goods are supplied subject to the Company's General Conditions of Sale, a copy of which is available on request. Third-party product and brand names may be trademarks of their respective owners.

Effective as of November 2022



