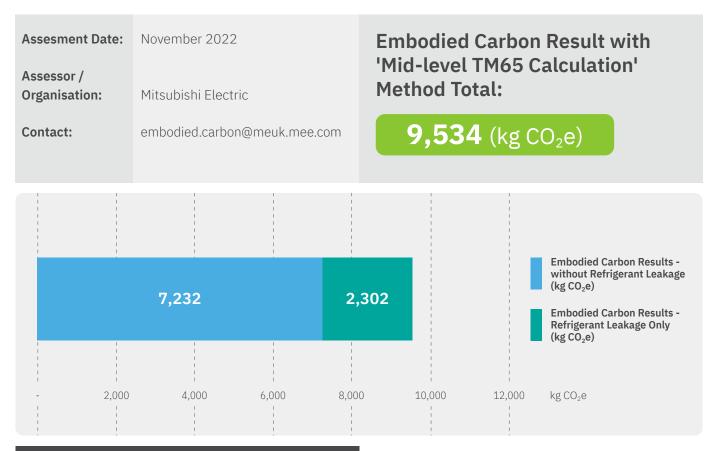


MECH-iS-G07 /0082

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 ₂ 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 CO₂e)

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 (%)	10 (TM65 Assumption)
C4: Percentage of product going to landfill (%)	30 (TM65 Assumption)



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