



EMBODIED CARBON OF MEP PRODUCTS — REPORTING FORM — 'BASIC' METHOD

CIBSE would like to encourage and support analysis of embodied and whole life carbon of building services products and systems in order to address the embodied carbon MEP knowledge gap. CIBSE has developed a standard methodology for the assessment of embodied carbon for building services (CIBSE TM65), so that embodied carbon data calculated by different consultants and researchers can be brought together and compared, and thus rules of thumb concerning embodied carbon of MEP systems can be developed.

To facilitate this, CIBSE encourages all consultants and researchers that have carried out embodied carbon calculation in line with CIBSE TM65 to submit their results to CIBSE using this reporting form to aid research in this field.

Please complete the fields in grey below and email to embodiedcarbon@cibse.org. If possible, please also submit the manufacturer form provided by the manufacturer.

If there has been deviation from the CIBSE TM65 methodology, either relating to methodology or assumptions then please highlight this in the notes/source column.

Version released in January 2021.

'Basic' calculation		Notes/source
Date of assessment	17th July 2026	
Name of assessor and assessor organisation	Andrew Jackson - Breathing Buildings	
Contact details of assessor		
Product information		
Type of product	Commercial Heat Recovery Unit MVHRe 2100	
Capacity of equipment/size (kW; m ³ ; litre; etc.)	2100 m ³ /hr	
Product weight (kg)	470	
Material % breakdown for at least 95% of the product weight? (Y/N)	Yes	
Product service life (years)	25	
If refrigerant based, type of refrigerant used and GWP	N/A	
Refrigerant charge (kg)	-	
Product complexity category	3	See CIBSE TM65 Table 4.3
Embodied carbon results (kg CO ₂ e) — without refrigerant leakage		
A1: Material extraction (original product)	1701.945	
A1: Material extraction (components that are replaced in B3)	170.1945	
A1–A4, B3, C2–C4: Total embodied carbon with scale-up and buffer factor (excluding refrigerant leakage)	3894.05	
Embodied carbon result (kg CO ₂ e) — refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)		
Embodied carbon result with 'basic' calculation method (kg CO ₂ e) — total		
Result of 'basic' calculation method	3894.05	
Assumptions		
A1: Material carbon coefficient source	3	E.g: Source = CIBSE TM65, Table 2.1
B1: Refrigerant annual leakage rate (%)	0	E.g: Source = CIBSE TM65, Table 4.4 type 2
C1: Refrigerant end of life recovery rate (%)	0	E.g: Source = CIBSE TM65, Table 4.4 type 2
B3: Materials replaced as part of repair (%)	10	E.g: Source = CIBSE TM65, Table 2.1
Details		
Please provide any relevant details		

Information disclosure	Select Yes if you agree	Notes
I consent that the data in this form may be used for CIBSE research purposes, our company name will be listed as a research collaborator in any outputs; however, I will have the opportunity to remove our company name from the project outputs once receiving a draft of the research.	No	
I consent that the data in this form may be used by CIBSE in establishing an embodied carbon MEP database	No	