Embodied Carbon Calculator: Basic Report



(CIBSE TM65 Digital Tool)

If Section A of the 'Input' tab is correctly completed, the results will be shown here.

Please complete all purple and yellow cells.

If you would like to assist CIBSE in building knowledge on the embodied carbon of products used in building services, please complete as directed, name this file as instructed in the 'Introduction and Instructions' tab, and email this file to embodiedcarbon@cibse.org.

Basic report for 100-990 as manufactured by Excel

Basic calculation		Notes/source
Date of assessment	26/03/24	Form "dd/mm/yy"
Name of assessor and assessor organisation	Self Assessment	
Contact email address of assessor	sales@mayflex.com	

Product information			
Type of product	Cables		
Capacity of equipment/size (kW; m ³ ; litre; etc.)	500 m		
Product weight (kg)	27.50 kg		
Material % breakdown for at least 95% of the product weight? (Y/N)	Y		
Product service life (years)	25 Years		
If refrigerant based, type of refrigerant used and GWP	No refrigerant, 0 kgCO2e		
Refrigerant charge (kg)	0.00 kg		
Product complexity category	Category 1	See CIBSE TM65 Table 4.3	

Embodied carbon results (kg CO2e) — without refrigerant leakage		
A1: Material extraction (original product)	126.122 kgCO2e	
A1: Material extraction (components that are replaced in B3)	12.612 kgCO2e	
A1-A4, B3, C2-C4: Total embodied carbon with scale-up and buffer factor (excluding refrigerant leakage)	234.461 kgCO2e	

Embodied carbon result (kg CO ₂ e) — refrigerant leakage only		
B1 (refrigerant leakage during use) + C1 (refrigerant leakage at end of life)	0.000 kgCO2e	TM65 leakage Type 0

Embodied carbon result with 'basic' calculation method (kg CO2e) — total		
Result of 'basic' calculation method	234.461 kgCO2e	

Assumptions		
A1: Material carbon coefficient source	CIBSE TM65, Table 2.1	E.g: Source = CIBSE TM65, Table 2.1
B1: Refrigerant annual leakage rate (%)	CIBSE TM65, Table 4.4 Type 0	E.g: Source = CIBSE TM65, Table 4.4 type 2
C1: Refrigerant end of life recovery rate (%)	CIBSE TM65, Table 4.4 Type 0	E.g: Source = CIBSE TM65, Table 4.4 type 2
B3: Materials replaced as part of repair (%)	CIBSE TM65, Table 2.1	E.g: Source = CIBSE TM65, Table 2.1

Details

Please provide any relevant details

Information disclosureSelect Yes if you agreeNotesI consent to CIBSE's use of the data contained in this form for
research purposes, on the condition that all identifying
information is removed from any published output.YesI consent to CIBSE's use of the data contained in this form in
order to establish an embodied carbon database for products
used in building services.Yes