

Embodied Carbon Calculator: Basic

Report 5 Digital



TOOL

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

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 208-016-APC-MOD1 as manufactured by

Basic		Notes/source
Date of assessment	15/08/24	Form "dd/mm/yy"
Name of assessor and assessor organisation	Self	
Contact email address of assessor	sales@mayflex.com	

Product		
Type of product	information Cable	
Capacity of equipment/size (kW; m ³ ; litre; Product weight (kg)	Containment 0.0013 m ³ 0.27 kg	
Material % breakdown for at least 95% of the product weight? (Y/N)	Y	
Product service life (years)	25 Years	
Refrigerant based, type of refrigerant used and GWP	No refrigerant, 0	
Refrigerant charge (kg)	kgCO ₂ e 0.00 kg	
Product complexity category	Category 1	See CIBSE TM65 Table 4.3

Embodied carbon results (kg CO ₂ e) – without refrigerant		
A1: Material extraction (original product)	0.961	
B1: Material extraction (components that are replaced in A1)	kgCO ₂ e 0.000	
B3: A4, B3, C2-C4: Total embodied carbon with scale-up and buffer factor (excluding refrigerant leakage)	kgCO ₂ e 1.786	

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

Embodied carbon result with 'basic' calculation method (kg CO ₂ e) –		
Result of 'basic' calculation method	1.786	

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	Select Yes if you agree	Notes
I 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.	Yes	
I 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	