

# CIBSE TM65 Embodied Carbon 'Mid-level' Calculation

16.09.2024 Assesment Date:

**Embodied Carbon Result with** Organisation: Airflow Developments Ltd 'TM65 Calculation' Method Total:

1206 kg CO<sub>2</sub>e info@airflow.com Contact email:



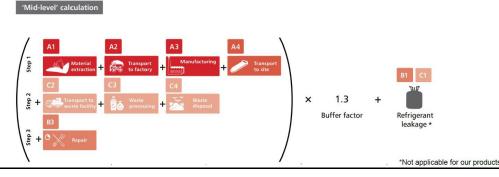


#### DUPLEXbase PT 900 - Product Information

Bei EExtbaco I I dad I I daddt III di	ilation	
Type of product	Mechanical Ventilation with	
Type of product	Heat Recovery (MVHR)	2
Maximum power input (kW)	0.45	
Product weight (kg)	187	
Material breakdown for at least 95% of	V	
the product weight? (Y/N)	1	
Service life of the product (years)	15	
Energy consumption of the factory per	0.58	
kg of product (kWh)	0.56	
Location of manufacture	Europe	
Product Complexity	Category 3: High	

### **TM65 Calculation Methodology**

TM65 calculation methodology outlines the need for product embodied carbon assessment related to building services engineering systems. Embodied carbon is understood as the greenhouse gas emissions associated with the manufacture of a product, its installation, maintenance, repair, replacement, and end of life. It covers the whole life cycle, excluding operational aspects and the potential recovery, reuse or recycling of materials. [Ref. CIBSE TM65 Embodied carbon in building services: A calculation methodology (2021)]





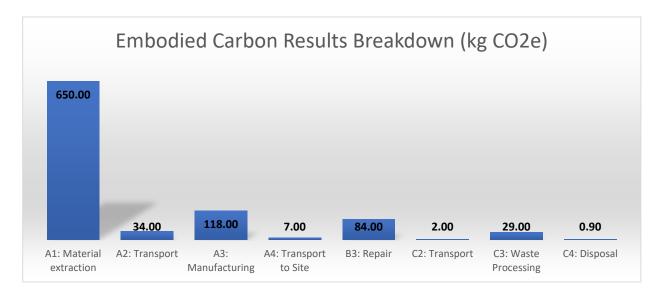
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<b>Embodied</b>	Carbon	Results	Breakdown	(kg	CO <sub>2</sub> e)	
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A1: Material extraction A2: Transport	650.00 34.00
A3: Manufacturing	118.00
A4: Transport to Site	7.00
B3: Repair	84.00
C2: Transport	2.00
C3: Waste Processing	29.00
C4: Disposal	0.90

### Total embodied carbon results (kg CO2e) Mid-Level:

1206



### **Assumptions**

A1: Material carbon coefficient source TM65 Table 2.1

A2, A4 and C2 TM65 Table 4.7 & Table 4.8

A2 and A3 Product complexity TM65 Table 4.9

TM65 Table 4.10 & Table 4.11 A3: Manufacturing

A4: Transport to site TM65 Table 4.12

TM65 Table 4.14 & Table 4.15 C3 and C4 10% (TM65 Assumption) B3: Repair

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