## **Embodied Carbon Calculator: Basic Report**





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 100-914 as manufactured by Excel

| Basic calcu                                | ulation           | Notes/source    |
|--|-------------------|-----------------|
| Date of assessment                         | 30/11/23          | 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; m3; litre; etc.)             | 500 m                    |                          |
| Product weight (kg)  | 26.50 kg                 |                          |
| Material % breakdown for at least 95% of the product weight? | V                        |                          |
| (Y/N)  | · ·                      |                          |
| 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 CO <sub>2</sub> e) — without refrigerant leakage   |                |  |
|--|----------------|--|
| A1: Material extraction (original product)   | 116.918 kgCO2e |  |
| A1: Material extraction (components that are replaced in B3) A1-A4, B3, C2-C4: Total embodied carbon with scale-up and | 11.692 kgCO2e  |  |
| buffer factor (excluding refrigerant leakage)  | 217.351 kgCO2e |  |

| Embodied carbon result (kg CO₂e) — refrigerant leakage only                      |              |                     |
|--|--------------|---------------------|
| B1 (refrigerant leakage during use) +<br>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 217,351 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        |

| bs. Materials replaced as part of repair (x) | CIDSE THIOS, Table 2.1 | E.g. source - Close Thios, Tuble 2.1 |
|--|------------------------|--------------------------------------|
|  | Details                |                                      |
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| Select Yes if you agree | Notes |
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| Yes                     |       |
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|                         | Yes   |