

Product Environmental Profile

ClimaSys standard cooling unit - 2000W





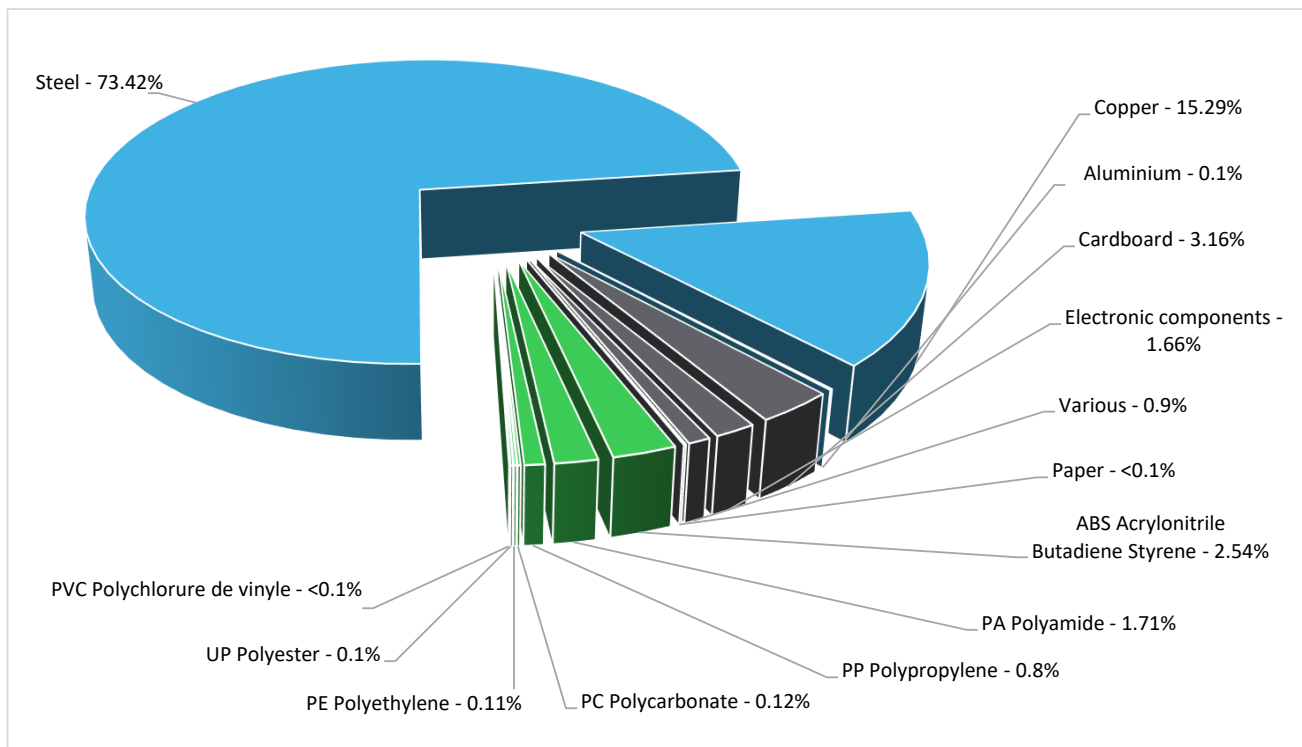
General information

| | |
|-----------------------------------|--|
| Representative product | ClimaSys standard cooling unit - 2000W - NSYCU2K3P4 |
| Description of the product | The main purpose of the ClimaSys CU - product range is to provide a proper temperature to an enclosure with electrical, electronical or mechanical equipment in harshest environnements, where the temperature can reach up to 55°C, preventing against hot spots. |
| Functional unit | To produce 1 kW of cooling, according to the appropriate usage scenario defined in the EN 14825 standard and during the 22-year reference lifetime of the product. |



Constituent materials

| | |
|-------------------------------|--|
| Reference product mass | 50000 g including the product, its packaging and additional elements and accessories |
|-------------------------------|--|



| | |
|----------|-------|
| Plastics | 5.3% |
| Metals | 88.8% |
| Others | 5.9% |



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE, Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate- BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



Additional environmental information

The ClimaSys standard cooling unit - 2000W presents the following relevant environmental aspects

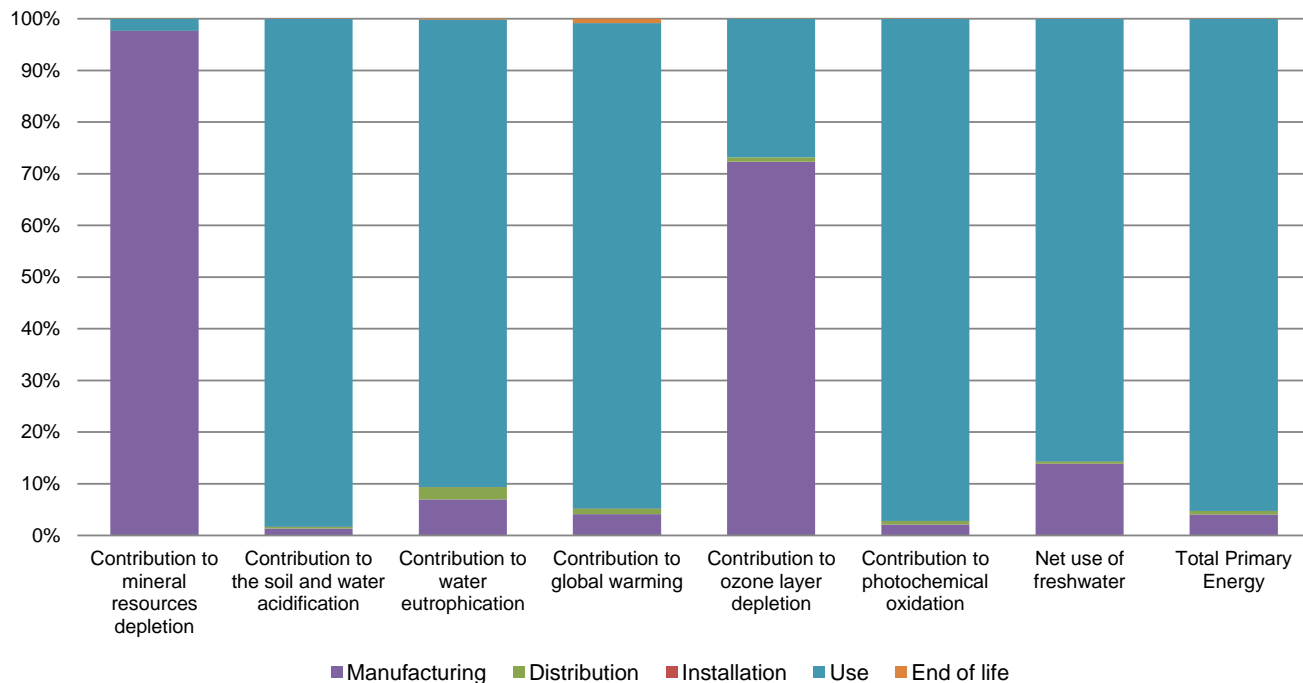
| | |
|----------------------|--|
| Manufacturing | Manufactured at a production site complying with the regulations |
| Distribution | Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1694 g, consisting of Cardboard(94.61%),Paper(2.63%),UP Polyester(1.56%),PA Polyamide(1.20%) Product distribution optimised by setting up local distribution centres |
| Installation | The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal). |
| Use | The product does not require special maintenance operations. |
| End of life | End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains Electronic: 1280.95g that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: 88% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME). |



Environmental impacts

| | | | | |
|---|--|---|---|---|
| Reference life time | 22 years | | | |
| Product category | Other equipments - Active product | | | |
| Installation elements | No special installation components need during installation phase, but transport of packaging to disposal and disposal of packaging accounted for during installation. | | | |
| Use scenario | The product is in active mode 40% of the time with a power use of 2000W and in Off mode 60% of the time for 22 years | | | |
| Geographical representativeness | Europe | | | |
| Technological representativeness | The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production | | | |
| Energy model used | Manufacturing | Installation | Use | End of life |
| | Energy model used: Italy | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 |

| Compulsory indicators | | ClimaSys standard cooling unit - 2000W - NSYCU2K3P4 | | | | | |
|--|-------------------------------------|---|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 7.28E-03 | 7.11E-03 | 0* | 0* | 1.69E-04 | 0* |
| Contribution to the soil and water acidification | kg SO ₂ eq | 2.85E+01 | 3.72E-01 | 1.03E-01 | 0* | 2.81E+01 | 7.16E-03 |
| Contribution to water eutrophication | kg PO ₄ ³⁻ eq | 1.16E+00 | 8.09E-02 | 2.80E-02 | 0* | 1.05E+00 | 1.83E-03 |
| Contribution to global warming | kg CO ₂ eq | 4.10E+03 | 1.69E+02 | 4.45E+01 | 0* | 3.85E+03 | 3.51E+01 |
| Contribution to ozone layer depletion | kg CFC11 eq | 3.55E-03 | 2.57E-03 | 3.12E-05 | 0* | 9.51E-04 | 0* |
| Contribution to photochemical oxidation | kg C ₂ H ₄ eq | 1.37E+00 | 2.89E-02 | 9.62E-03 | 0* | 1.33E+00 | 7.62E-04 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m ³ | 1.13E+01 | 1.57E+00 | 5.36E-02 | 0* | 9.68E+00 | 3.12E-03 |
| Total Primary Energy | MJ | 7.90E+04 | 3.22E+03 | 5.48E+02 | 0* | 7.52E+04 | 3.57E+01 |



| Optional indicators | | ClimaSys standard cooling unit - 2000W - NSYCU2K3P4 | | | | | | |
|---|------|---|---------------|--------------|--------------|----------|-------------|--|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Contribution to fossil resources depletion | MJ | 4.03E+04 | 1.54E+03 | 5.46E+02 | 0* | 3.82E+04 | 2.87E+01 | |
| Contribution to air pollution | m³ | 1.93E+05 | 2.97E+04 | 3.72E+03 | 0* | 1.59E+05 | 2.53E+02 | |
| Contribution to water pollution | m³ | 1.75E+05 | 1.26E+04 | 6.51E+03 | 0* | 1.56E+05 | 2.92E+02 | |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Use of secondary material | kg | 1.22E+01 | 1.22E+01 | 0* | 0* | 0* | 0* | |
| Total use of renewable primary energy resources | MJ | 5.43E+03 | 4.70E+01 | 0* | 0* | 5.38E+03 | 0* | |
| Total use of non-renewable primary energy resources | MJ | 7.36E+04 | 3.17E+03 | 5.48E+02 | 0* | 6.98E+04 | 3.57E+01 | |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 5.41E+03 | 3.13E+01 | 0* | 0* | 5.38E+03 | 0* | |
| Use of renewable primary energy resources used as raw material | MJ | 1.57E+01 | 1.57E+01 | 0* | 0* | 0* | 0* | |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 7.35E+04 | 3.10E+03 | 5.48E+02 | 0* | 6.98E+04 | 3.57E+01 | |
| Use of non renewable primary energy resources used as raw material | MJ | 7.31E+01 | 7.28E+01 | 0* | 0* | 2.35E-01 | 0* | |
| Use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |
| Use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |
| Waste categories | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Hazardous waste disposed | kg | 5.49E+02 | 5.21E+02 | 0* | 0* | 7.42E-02 | 2.76E+01 | |
| Non hazardous waste disposed | kg | 1.39E+04 | 6.03E+01 | 0* | 0* | 1.39E+04 | 0* | |
| Radioactive waste disposed | kg | 1.14E+01 | 3.44E-02 | 8.93E-03 | 0* | 1.13E+01 | 0* | |
| Other environmental information | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Materials for recycling | kg | 2.44E+01 | 2.29E+00 | 0* | 8.18E-01 | 0* | 2.13E+01 | |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |
| Materials for energy recovery | kg | 1.05E+00 | 0* | 0* | 0* | 6.56E-01 | 3.92E-01 | |
| Exported Energy | MJ | 2.57E-03 | 2.41E-04 | 0* | 2.33E-03 | 0* | 0* | |

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.9.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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|---|----------------------|-------------------------------------|--|
| Registration number : | SCHN-00708-V01.01-EN | Drafting rules | PCR-ed3-EN-2015 04 02 |
| Verifier accreditation N° | VH39 | Supplemented by | PSR-0013-ed1.0-EN-2018 04 06 |
| Date of issue | 12/2021 | Information and reference documents | www.pep-ecopassport.org |
| | | Validity period | 5 years |
| Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 | | | |
| Internal | | External | X |
| The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN) | | | |
| PEP are compliant with XP C08-100-1 :2016 | | | |
| The elements of the present PEP cannot be compared with elements from another program. | | | |
| Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations » | | | |



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