

Product Environmental Profile

RESI9 VDI 18M2R SWITCH POE 8RJ





General information

| | |
|-----------------------------------|---|
| Representative product | RESI9 VDI 18M2R SWITCH POE 8RJ - R9H18402VDIXS |
| Description of the product | Resifresh product is a network / communication cabinet for residential purpose aiming to provide a full internet / network infrastructure telco cabinets system for the residential segment to farthest corner of the house without interference. |
| Functional unit | This product is an assembled enclosure which is to protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure or a cabinet having the following dimensions 375mm x 357mm x 108mm while protecting against mechanical impacts (IK08) in accordance with standards IEC60603-7, XPC 90483, UL 94-V2 & NF C15-100 |

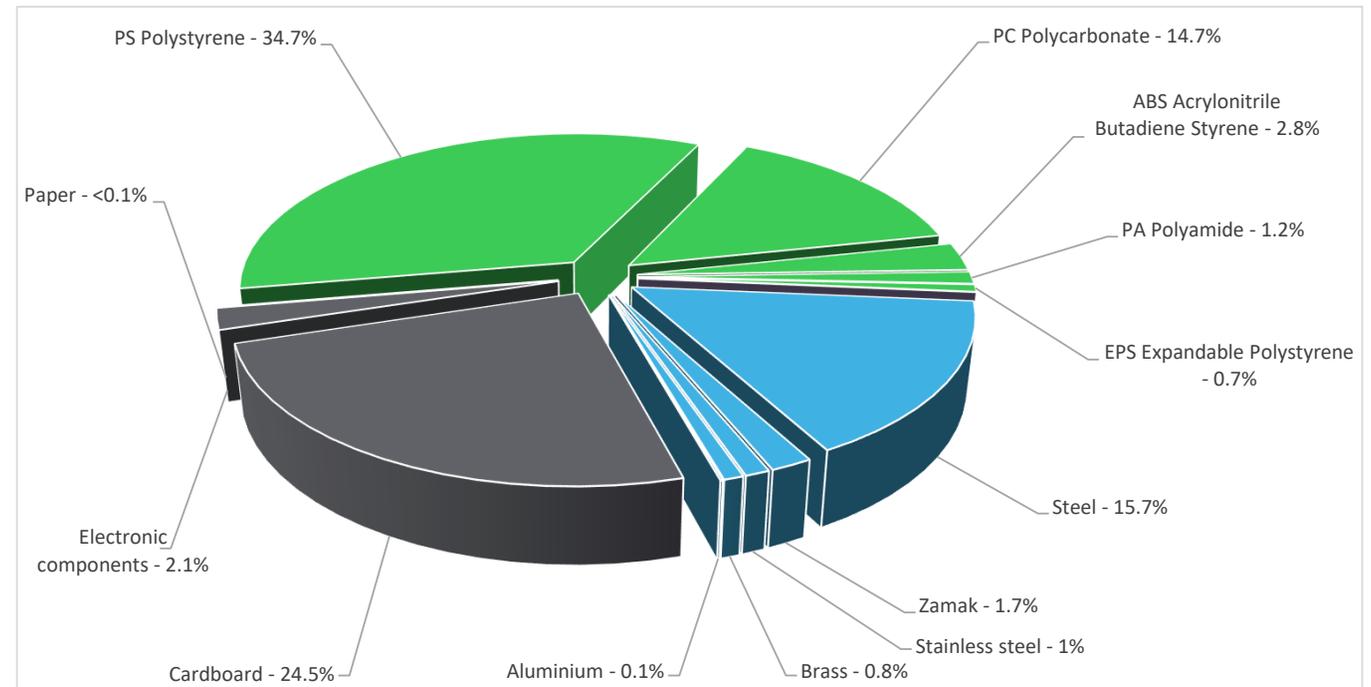
The various components or products which are installed inside RESI9 Connect have their own life expectancy and must follow their individual technical documents for maintenance or replacement.

The environmental impacts have been calculated for elements of RESI9 Connect. Impacts of Cat6 Patch Cords, French Socket, RJ45 CAT6 Connector and GBIT Ethernet Switch of POE contactors to be assembled and have not been integrated in the calculation.



Constituent materials

Reference product mass 2000 g including the product, its packaging and additional elements and accessories



| | |
|----------|-------|
| Plastics | 54.1% |
| Metals | 19.3% |
| Others | 26.6% |



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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 RESI9 VDI 18M2R SWITCH POE 8RJ presents the following relevant environmental aspects

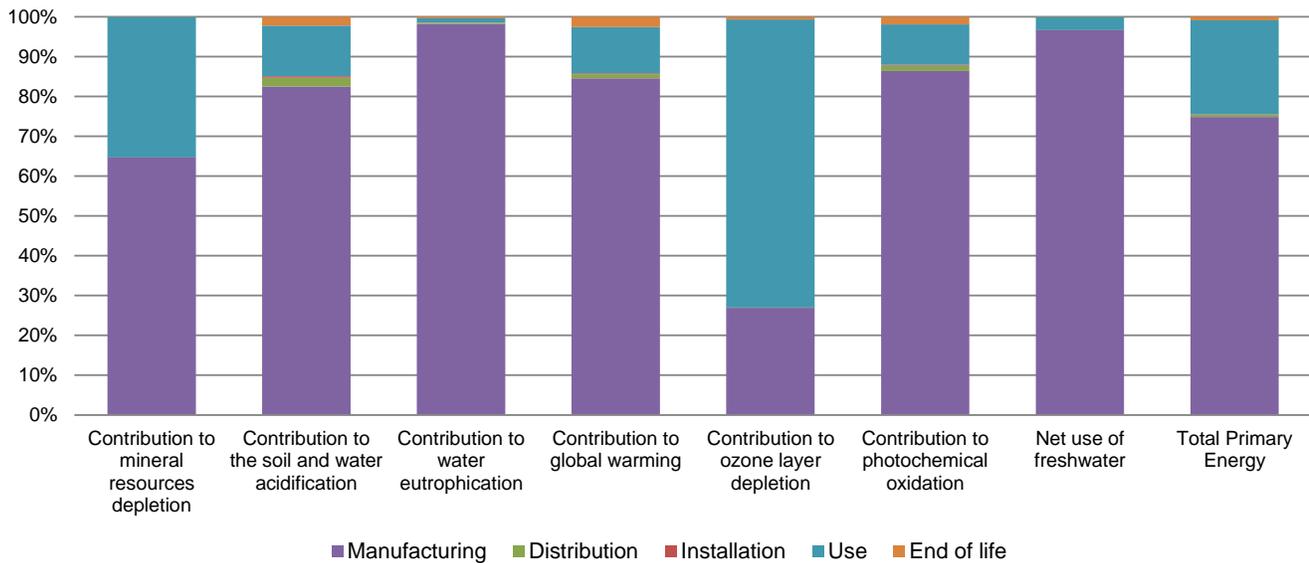
| | |
|----------------------|--|
| Manufacturing | Manufactured at a Schneider Electric production site ISO14001 certified |
| Distribution | Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 400.7 g, consisting of Cardboard(99.84%), Paper(0.16%) Product distribution optimised by setting up local distribution centres |
| Installation | This product does not require special installation operation. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal). |
| Use | The DTI (52g) have to be changed every 10 years |
| 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 PCB Assembly (8.5g) & Cables (31.5g) 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: 67% 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 | 20 years | | | |
| Product category | Combination of functions | | | |
| Installation elements | End of life of the packaging materials for installation | | | |
| Use scenario | The Power Dissipation of DTI is 0.000712W at use rate 17% in active mode and 0W at 83% use rate in Off mode and the Power Dissipation of TV Splitter is 0.023W at use rate of 100% | | | |
| 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 |
| | Manufacturing Plant Location: France | Electricity Mix; AC; consumption mix, at consumer; 230V; FR | Electricity Mix; AC; consumption mix, at consumer; 230V; FR | Electricity Mix; AC; consumption mix, at consumer; 230V; FR |

| Compulsory indicators | | RESI9 VDI 18M2R SWITCH POE 8RJ - R9H18402VDIXS | | | | | |
|--|-------------------------------------|--|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 1.60E-04 | 1.03E-04 | 0* | 0* | 5.64E-05 | 0* |
| Contribution to the soil and water acidification | kg SO ₂ eq | 2.29E-02 | 1.89E-02 | 5.09E-04 | 9.04E-05 | 2.91E-03 | 5.08E-04 |
| Contribution to water eutrophication | kg PO ₄ ³⁻ eq | 3.49E-02 | 3.42E-02 | 1.18E-04 | 2.20E-05 | 3.75E-04 | 1.41E-04 |
| Contribution to global warming | kg CO ₂ eq | 1.05E+01 | 8.86E+00 | 1.12E-01 | 2.17E-02 | 1.22E+00 | 2.74E-01 |
| Contribution to ozone layer depletion | kg CFC11 eq | 1.92E-06 | 5.18E-07 | 2.25E-10 | 0* | 1.39E-06 | 1.24E-08 |
| Contribution to photochemical oxidation | kg C ₂ H ₄ eq | 2.76E-03 | 2.39E-03 | 3.69E-05 | 6.75E-06 | 2.80E-04 | 5.35E-05 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m3 | 5.69E+00 | 5.50E+00 | 0* | 0* | 1.89E-01 | 0* |
| Total Primary Energy | MJ | 2.77E+02 | 2.07E+02 | 1.57E+00 | 2.83E-01 | 6.53E+01 | 2.54E+00 |



| Optional indicators | | RESI9 VDI 18M2R SWITCH POE 8RJ - R9H18402VDIXS | | | | | |
|---|----------------|--|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 1.43E+02 | 1.27E+02 | 1.56E+00 | 2.81E-01 | 1.21E+01 | 2.01E+00 |
| Contribution to air pollution | m ³ | 9.86E+02 | 8.37E+02 | 5.15E+00 | 8.65E-01 | 1.25E+02 | 1.80E+01 |
| Contribution to water pollution | m ³ | 1.25E+03 | 1.08E+03 | 1.83E+01 | 3.29E+00 | 8.77E+01 | 5.47E+01 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 2.87E-01 | 2.87E-01 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 1.04E+01 | 7.68E+00 | 2.10E-03 | 0* | 2.75E+00 | 2.75E-03 |
| Total use of non-renewable primary energy resources | MJ | 2.66E+02 | 1.99E+02 | 1.57E+00 | 2.83E-01 | 6.25E+01 | 2.54E+00 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 4.81E-01 | 0* | 2.10E-03 | 4.40E-04 | 2.75E+00 | 2.75E-03 |
| Use of renewable primary energy resources used as raw material | MJ | 9.95E+00 | 9.95E+00 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2.23E+02 | 1.58E+02 | 1.57E+00 | 2.83E-01 | 6.06E+01 | 2.54E+00 |
| Use of non renewable primary energy resources used as raw material | MJ | 4.37E+01 | 4.18E+01 | 0* | 0* | 1.95E+00 | 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 | 5.08E+00 | 2.70E+00 | 0* | 0* | 1.45E-01 | 2.24E+00 |
| Non hazardous waste disposed | kg | 2.16E+01 | 2.03E+01 | 3.95E-03 | 2.94E-03 | 1.25E+00 | 7.74E-03 |
| Radioactive waste disposed | kg | 2.36E-02 | 6.52E-03 | 2.82E-06 | 0* | 1.70E-02 | 1.24E-05 |
| Other environmental information | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 1.73E+00 | 2.00E-01 | 0* | 3.99E-01 | 3.32E-02 | 1.10E+00 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 3.55E-02 | 0* | 0* | 0* | 5.67E-03 | 2.98E-02 |
| Exported Energy | MJ | 1.30E-03 | 1.49E-04 | 0* | 1.15E-03 | 0* | 0* |

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

Life cycle assessment performed with EIME version 5.9.3, database version 2016-11 in compliance with ISO14044.

The Manufacturing phase is impacting on Indicators Acidification potential of soil and water (total average for Europe) (A for PEP), Eutrophication (fate not incl.) (EP for EN15804), Global warming (GWP100) (GWP for EN15804), Photochemical oxidation (high NOx) (POCP for EN15804) & Net use of freshwater (NUFW). The Manufacturing phase & Use phase are impacting equally on Indicator of Abiotic depletion (elements, ultimate reserves) (ADPe for EN15804), Total Prime Energy & Ozone layer depletion ODP steady state (ODP for EN15804). And The Use phase is impacting on rest of the 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.

| | | | |
|---|------------------|-------------------------------------|--|
| Registration number | ENVPEP2203020_V1 | Drafting rules | PCR-ed3-EN-2015 04 02 |
| Date of issue | 04/2022 | Supplemented by | PSR-0005-ed2-EN-2016 03 29 |
| Validity period | 5 years | Information and reference documents | www.pep-ecopassport.org |
| Independent verification of the declaration and data | | | |
| Internal | X | External | |
| The elements of the present PEP cannot be compared with elements from another program. | | | |
| Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) » | | | |

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Published by Schneider Electric

ENVPEP2203020_V1

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04/2022