Product Environmental Profile

Resi9 VDI ENCLOSURE

as reference product for :

all Resifresh network / communication cabinet in RESI9 range

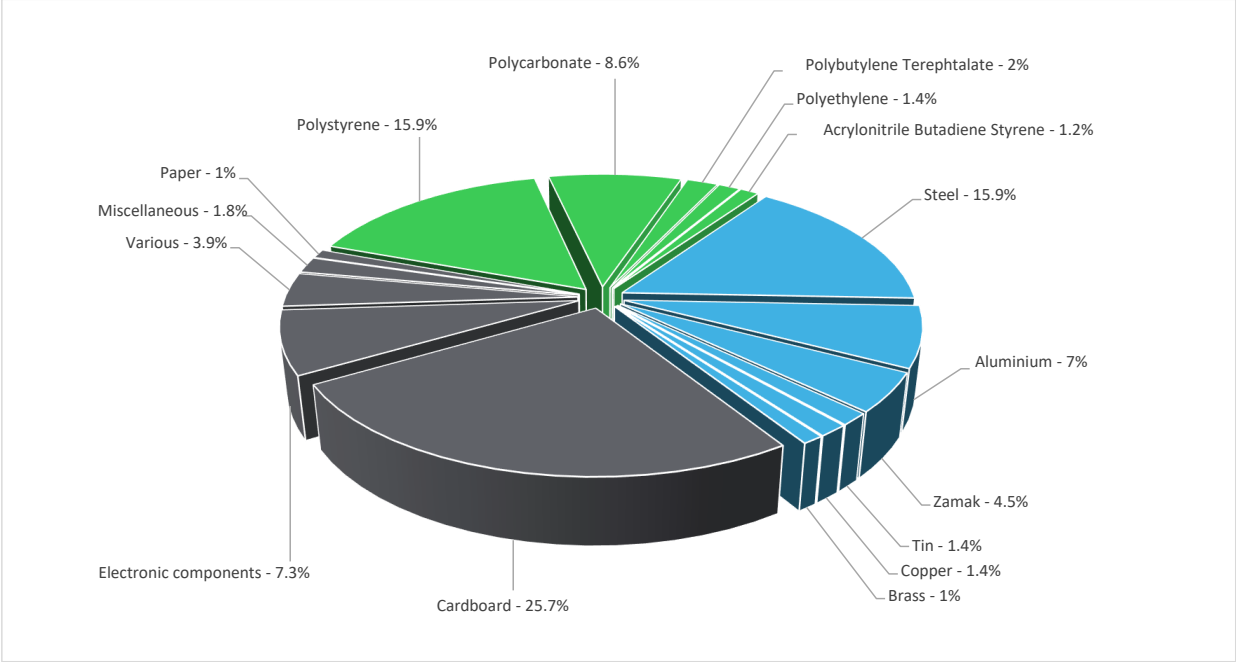
General information

Reference product	RESI9 COFFRET VDI 18M2R - SWITCH 9PORTS POE - 2 PRISES - GRADE 3TV 8XRJ45 CAT6A - R9H18402VDIXS
Description of the product	This 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.
Description of the range	The PEP refers to the product range "Resi9" and the reference product considered for the analysis within the range is "R9H18402VDIXS" based on the market value and specification.
Functional unit	Resifresh communication box is an enclosure assembled with a modem/router slots allows for internet distribution throughout the home at speeds up to 1Gb/s and serves as the entry and exit point for the cabled RJ45 Cat 3 TV Ethernet and coaxial connections from the various rooms which protect persons from direct contact with live parts in a single enclosure or a cabinet during the reference life time of 10 years with dimension 375 x 357 x 108mm.
Specifications are:	IK08 in accordance with standards IEC60603-7 Other Standards: XPC 90483, UL 94-V2 & NF C15-100

Linked Product	Product mass [g]	Packaging mass [g]	Power [W]	Dimension [mm]
R9H13401VDIXS	1400	920	3.3	195 x 265 x 275
R9H13402VDIXS	1774	640	3.3	195 x 275 x 385

Constituent materials

Reference product mass	5239 g	including the product and its packaging



	Others	39.7%
	Metals	31.2%
	Plastics	29.1%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**42%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	10		
Product category	Combinations of functions		
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
Electricity consumtion	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption		
Installation elements	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal). The material constituents of the packaging are Cardboard 92%, Plastic 4%, Paper 3% and Wood 1%.		
Use scenario	The Power consumption is 2.18W at use rate 40% in active mode and 1.15W at use rate 60% in standby mode for 10 years		
Time representativeness	The collected data are representative of the year 2024		
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.		
Geographical representativeness	**Final assembly site**	**Use phase**	**End-of-life**
	France	France	France
Energy model used	**[A1 - A3]**	**[A5]** / **[B6]**	**[C1 - C4]**
	Electricity Mix; Low voltage; France, FR Electricity Mix; Low voltage; Europe, EU-27	Electricity Mix; Low voltage; RER / Electricity Mix; Low voltage; 2022; France, FR	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		RESI9 COFFRET VDI 18M2R - SWITCH 9PORTS POE - 2 PRISES - GRADE 3TV 8XRJ45 CAT6A - R9H18402VDIXS						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	4.34E+01	2.28E+01	3.57E-01	3.84E+00	1.23E+01	4.02E+00	-9.43E+00
Contribution to climate change-fossil	kg CO2 eq	4.20E+01	2.44E+01	3.57E-01	1.73E+00	1.16E+01	3.82E+00	-1.11E+01
Contribution to climate change-biogenic	kg CO2 eq	1.42E+00	-1.58E+00	0*	2.11E+00	6.88E-01	2.04E-01	1.62E+00
Contribution to climate change-land use and land use change	kg CO2 eq	5.75E-04	5.72E-04	1.12E-06	0*	0*	2.00E-06	2.79E-05
Contribution to ozone depletion	kg CFC-11 eq	3.69E-06	3.39E-06	8.00E-09	2.41E-08	1.36E-07	1.34E-07	-1.67E-06
Contribution to acidification	mol H+ eq	2.32E-01	1.52E-01	7.18E-04	5.24E-03	5.76E-02	1.62E-02	-8.72E-02
Contribution to eutrophication, freshwater	kg P eq	5.66E-04	1.35E-04	1.45E-06	2.99E-05	3.85E-04	1.43E-05	-5.34E-05
Contribution to eutrophication, marine	kg N eq	2.97E-02	1.68E-02	1.19E-04	2.19E-03	7.94E-03	2.69E-03	-8.06E-03
Contribution to eutrophication, terrestrial	mol N eq	3.64E-01	1.81E-01	1.30E-03	1.59E-02	1.33E-01	3.34E-02	-8.32E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.01E-01	6.57E-02	4.26E-04	3.60E-03	2.32E-02	8.42E-03	-2.81E-02
Contribution to resource use, minerals and metals	kg Sb eq	3.81E-03	3.80E-03	5.00E-07	0*	1.39E-05	7.12E-07	-1.41E-03
Contribution to resource use, fossils	MJ	2.31E+03	6.13E+02	7.27E+00	1.74E+01	1.61E+03	5.55E+01	-1.82E+02
Contribution to water use	m3 eq	1.39E+01	1.10E+01	2.21E-02	1.46E-01	2.26E+00	4.34E-01	-4.33E+00

Inventory flows Indicators		RESI9 COFFRET VDI 18M2R - SWITCH 9PORTS POE - 2 PRISES - GRADE 3TV 8XRJ45 CAT6A - R9H18402VDIXS						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	2.16E+02	2.71E+01	4.16E-02	2.40E+00	1.83E+02	3.08E+00	9.53E-01
Contribution to renewable primary energy used as raw material	MJ	2.21E+01	2.21E+01	0*	0*	0*	0*	-2.30E+01
Contribution to total renewable primary energy	MJ	2.38E+02	4.91E+01	4.16E-02	2.40E+00	1.83E+02	3.08E+00	-2.20E+01
Contribution to non renewable primary energy used as energy	MJ	2.23E+03	5.39E+02	7.27E+00	1.74E+01	1.61E+03	5.55E+01	-1.82E+02
Contribution to non renewable primary energy used as raw material	MJ	7.39E+01	7.39E+01	0*	0*	0*	0*	-1.72E-01
Contribution to total non renewable primary energy	MJ	2.31E+03	6.13E+02	7.27E+00	1.74E+01	1.61E+03	5.55E+01	-1.82E+02
Contribution to use of secondary material	kg	3.83E-01	3.83E-01	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of fresh water	m³	3.34E-01	2.57E-01	5.14E-04	1.13E-02	5.28E-02	1.27E-02	-1.01E-01
Contribution to hazardous waste disposed	kg	5.25E+01	5.10E+01	0*	8.11E-02	5.04E-01	9.46E-01	-1.10E+02
Contribution to non hazardous waste disposed	kg	1.23E+01	7.57E+00	6.89E-02	5.72E-01	2.32E+00	1.75E+00	-1.24E+01
Contribution to radioactive waste disposed	kg	3.60E-03	2.70E-03	5.45E-05	1.14E-04	5.52E-04	1.82E-04	-8.53E-03
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.04E+00	1.54E-01	0*	1.29E+00	0*	1.59E+00	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

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

Contribution to biogenic carbon content of the product	kg of C	1.39E-04
Contribution to biogenic carbon content of the associated packaging	kg of C	3.98E-01

** The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)*

Mandatory Indicators		RESI9 COFFRET VDI 18M2R - SWITCH 9PORTS POE - 2 PRISES - GRADE 3TV 8XRJ45 CAT6A - R9H18402VDIXS							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.23E+01	0*	0*	0*	0*	0*	1.23E+01	0*
Contribution to climate change-fossil	kg CO2 eq	1.16E+01	0*	0*	0*	0*	0*	1.16E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	6.88E-01	0*	0*	0*	0*	0*	6.88E-01	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	1.36E-07	0*	0*	0*	0*	0*	1.36E-07	0*
Contribution to acidification	mol H+ eq	5.76E-02	0*	0*	0*	0*	0*	5.76E-02	0*
Contribution to eutrophication, freshwater	kg P eq	3.85E-04	0*	0*	0*	0*	0*	3.85E-04	0*
Contribution to eutrophication marine	kg N eq	7.94E-03	0*	0*	0*	0*	0*	7.94E-03	0*
Contribution to eutrophication, terrestrial	mol N eq	1.33E-01	0*	0*	0*	0*	0*	1.33E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.32E-02	0*	0*	0*	0*	0*	2.32E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.39E-05	0*	0*	0*	0*	0*	1.39E-05	0*
Contribution to resource use, fossils	MJ	1.61E+03	0*	0*	0*	0*	0*	1.61E+03	0*
Contribution to water use	m3 eq	2.26E+00	0*	0*	0*	0*	0*	2.26E+00	0*

Inventory flows Indicators		RESI9 COFFRET VDI 18M2R - SWITCH 9PORTS POE - 2 PRISES - GRADE 3TV 8XRJ45 CAT6A - R9H18402VDIXS							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.83E+02	0*	0*	0*	0*	0*	1.83E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	1.83E+02	0*	0*	0*	0*	0*	1.83E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.61E+03	0*	0*	0*	0*	0*	1.61E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	1.61E+03	0*	0*	0*	0*	0*	1.61E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	5.28E-02	0*	0*	0*	0*	0*	5.28E-02	0*
Contribution to hazardous waste disposed	kg	5.04E-01	0*	0*	0*	0*	0*	5.04E-01	0*
Contribution to non hazardous waste disposed	kg	2.32E+00	0*	0*	0*	0*	0*	2.32E+00	0*
Contribution to radioactive waste disposed	kg	5.52E-04	0*	0*	0*	0*	0*	5.52E-04	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

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

Extrapolated data

Homogeneous family technical data

Linked Product	Product mass [g]	Packaging mass [g]	Power [W]	Dimension [mm]
R9H13401VDIXS	1400	920	3.3	195 x 265 x 275
R9H13402VDIXS	1774	640	3.3	195 x 275 x 385

For products covered by the PEP other than the Reference Product, the environmental impacts of each life cycle phase are obtained by multiplying the Reference Product environmental impacts by the coefficients in the following table.

Total (without Module D)				
Mandatory Impact indicators	Unit	R9H13401VDIXS	R9H13402VDIXS	R9H18402VDIXS
Contribution to climate change	kg CO2 eq	0.6	0.6	**1**
Contribution to climate change-fossil	kg CO2 eq	0.6	0.6	**1**
Contribution to climate change-biogenic	kg CO2 eq	0.9	0.9	**1**
Contribution to climate change-land use and land use change	kg CO2 eq	0.5	0.8	**1**
Contribution to ozone depletion	kg CFC-11 eq	0.2	0.2	**1**
Contribution to acidification	mol H+ eq	0.5	0.5	**1**
Contribution to eutrophication, freshwater	kg P eq	0.9	0.8	**1**
Contribution to eutrophication, marine	kg N eq	0.6	0.6	**1**
Contribution to eutrophication, terrestrial	mol N eq	0.7	0.7	**1**
Contribution to photochemical ozone formation - human health	kg COVNM eq	0.5	0.6	**1**
Contribution to resource use, minerals and metals	kg Sb eq	0.3	0.3	**1**
Contribution to resource use, fossils	MJ	0.8	0.8	**1**
Contribution to water use	m3 eq	0.8	0.9	**1**

Life cycle assessment performed with EIME version v6.3.2-2, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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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		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	11-2025	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal X External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14021:2016 “Environmental labels and declarations. Type II environmental declarations”

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