

# Product Environmental Profile

**RESI9 VDI 18M2R SWITCH POE 8RJ**

as referent product for :

***all Resifresh network / communication cabinet in RESI9 range***





## General information

Reference 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.
Description of the range	The indicators values of this Resifresh network / communication cabinet can be extrapolated, based on the Mass and Energy values of the products, for other Resifresh network / communication cabinet Range of products ( whatever the earth type / finishing / colours / accessories included or not / ...). The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	This product is an assembled enclosure which is to protect persons during 10 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

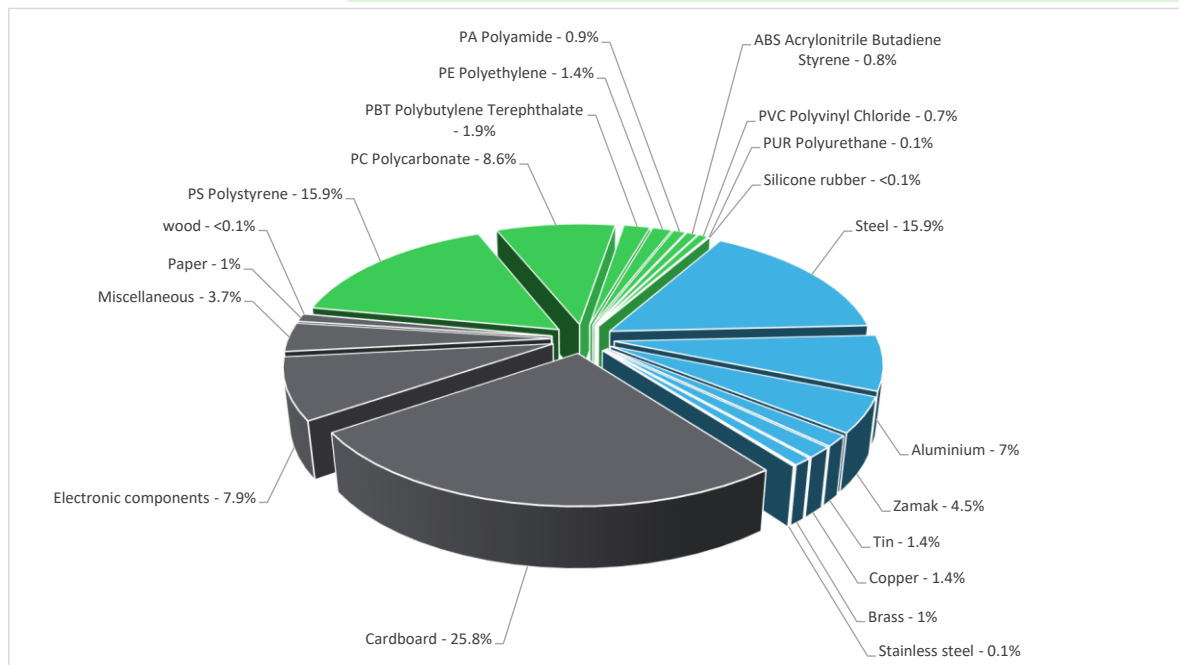
### List of functions included in the configuration

Sl. No.	MPN	Device	Device function
1	ACTPC6UULS05GR	Patch cord	Transmit communication signal
2	ACTPC6UULS05WE	Patch cord	Transmit communication signal
3	NU305918	Socket Outlet	Connection to energy
4	VDIB1771XB01	RJ45	Connector for cabling
5	R9H9SWP92	Resi9 POE Switch	Distribution of internet



## Constituent materials

Reference product mass 5245 g including the product, its packaging.



Plastics	30.3%
Metals	31.3%
Others	38.4%



## Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <https://www.se.com/ww/en/work/support/green-premium/>

## Additional environmental information

<b>End Of Life</b>	Recyclability potential:	<b>43%</b>	Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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## Environmental impacts

<b>Reference service life time</b>	10 years		
<b>Product category</b>	Combination of functions		
<b>Installation elements</b>	The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).		
<b>Use scenario</b>	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		
<b>Technological representativeness</b>	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.		
<b>Geographical representativeness</b>	France		
<b>Energy model used</b>	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR
			[C1 - C4]
			Electricity Mix; Production mix; Low voltage; FR

Mandatory Indicators		RESI9 VDI 18M2R SWITCH POE 8RJ - R9H18402VDIXS						
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to climate change	kg CO2 eq	5.82E+01	4.00E+01	4.07E-01	2.57E+00	9.14E+00	6.04E+00	-2.60E+01
Contribution to climate change-fossil	kg CO2 eq	5.76E+01	3.96E+01	4.07E-01	2.45E+00	9.12E+00	5.98E+00	-2.55E+01
Contribution to climate change-biogenic	kg CO2 eq	6.04E-01	4.14E-01	0*	1.13E-01	2.36E-02	5.41E-02	-4.35E-01
Contribution to climate change-land use and land use change	kg CO2 eq	7.39E-07	1.33E-07	0*	3.53E-07	0*	2.52E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.03E-05	9.74E-06	1.67E-07	1.71E-07	1.35E-07	9.55E-08	-5.03E-06
Contribution to acidification	mol H+ eq	3.50E-01	2.50E-01	2.23E-03	1.02E-02	5.29E-02	3.48E-02	-1.73E-01
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	1.12E-03	1.15E-04	0*	2.01E-05	4.35E-04	5.51E-04	-1.41E-04
Contribution to eutrophication marine	kg N eq	6.26E-02	3.46E-02	1.03E-03	2.71E-03	7.28E-03	1.70E-02	-1.78E-02
Contribution to eutrophication, terrestrial	mol N eq	5.39E-01	3.65E-01	1.13E-02	2.05E-02	1.05E-01	3.78E-02	-1.83E-01
Contribution to photochemical ozone formation - human health	kg COVM eq	1.76E-01	1.33E-01	3.20E-03	5.48E-03	2.16E-02	1.32E-02	-6.52E-02
Contribution to resource use, minerals and metals	kg Sb eq	3.72E-03	3.70E-03	0*	0*	4.33E-06	1.53E-05	-2.95E-03
Contribution to resource use, fossils	MJ	2.82E+03	7.73E+02	5.31E+00	2.66E+01	1.76E+03	2.62E+02	-3.87E+02
Contribution to water use	m3 eq	2.72E+02	1.37E+01	0*	1.18E+00	6.62E-01	2.57E+02	-1.31E+01

Additional indicators for the French regulation are available as well

Inventory flows Indicators		RESI9 VDI 18M2R SWITCH POE 8RJ - R9H18402VDIXS						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.68E+02	1.93E+00	0*	1.99E+00	1.62E+02	1.49E+00	1.75E+01
Contribution to use of renewable primary energy resources used as raw material	MJ	2.15E+01	2.15E+01	0*	0*	0*	0*	-3.93E+01
Contribution to total use of renewable primary energy resources	MJ	1.89E+02	2.35E+01	0*	1.99E+00	1.62E+02	1.49E+00	-2.18E+01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.75E+03	7.01E+02	5.31E+00	2.66E+01	1.76E+03	2.62E+02	-3.64E+02
Contribution to use of non renewable primary energy resources used as raw material	MJ	7.17E+01	7.17E+01	0*	0*	0*	0*	-2.34E+01
Contribution to total use of non-renewable primary energy resources	MJ	2.82E+03	7.73E+02	5.31E+00	2.66E+01	1.76E+03	2.62E+02	-3.87E+02
Contribution to use of secondary material	kg	3.74E-01	3.74E-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 freshwater	m³	7.08E+00	3.22E-01	0*	2.75E-02	1.54E-02	6.71E+00	-3.04E-01
Contribution to hazardous waste disposed	kg	4.27E+01	3.87E+01	0*	3.02E-02	1.36E-01	3.87E+00	-2.27E+02

Contribution to non hazardous waste disposed	kg	5.26E+01	4.27E+01	7.78E-03	8.31E+00	8.79E-01	7.11E-01	-7.19E+01
Contribution to radioactive waste disposed	kg	1.60E-02	1.44E-02	4.30E-05	1.12E-03	3.69E-04	7.16E-05	-1.27E-02
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.08E+00	8.38E-03	0*	1.47E+00	0*	1.61E+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	1.14E-03	1.07E-04	0*	1.03E-03	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

The majority of environmental indicators are most significantly impacted by the Manufacturing phase.

1- ADPe is the hotspot in the manufacturing phase that is most affected by electronic parts (46%).

2- ADPf is the hotspot in the Use phase that is most affected by resource use, fossils (62%).

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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Validity period	5 years	Supplemented by	PSR-0005-ed2-2016 03 29
Date of issue	09/2023	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>			
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)			
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019			
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. Type II environmental declarations »			

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