

# Product Environmental Profile

## ClimaSys Resistance heater





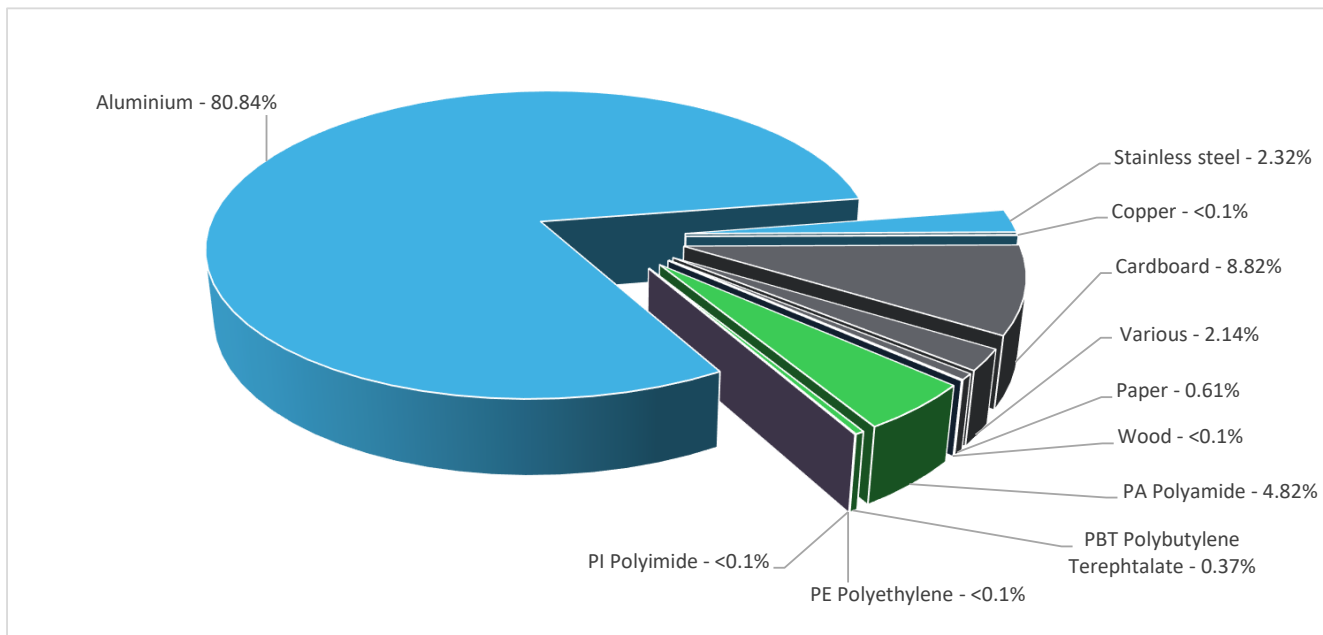
## General information

<b>Representative product</b>	ClimaSys Resistance heater - NSYCR55WU2
<b>Description of the product</b>	The main purpose of Resistance heaters to prevent the formation of condensation inside the enclosure due to high humidity or low temperature, and reheat the electrical switchboard when the temperature is too low for the components to operate correctly
<b>Functional unit</b>	The resistance heaters prevent the formation of condensation and guarantee the ideal temperature for the correct operation of the electronic components in the enclosure during 10 years.  Power = 55W Voltage = 110-250 V AC Ambient air temperature for operation = -40...70 °C Product dimensions H200 mm X W85 mm X D70 mm IP degree of protection = IP20



## Constituent materials

**Reference product mass** 539.33 g including the product, its packaging and additional elements and accessories



Plastics	5.2%
Metals	83.2%
Others	11.6%



## 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 ClimaSys Resistance heater presents the following relevant environmental aspects

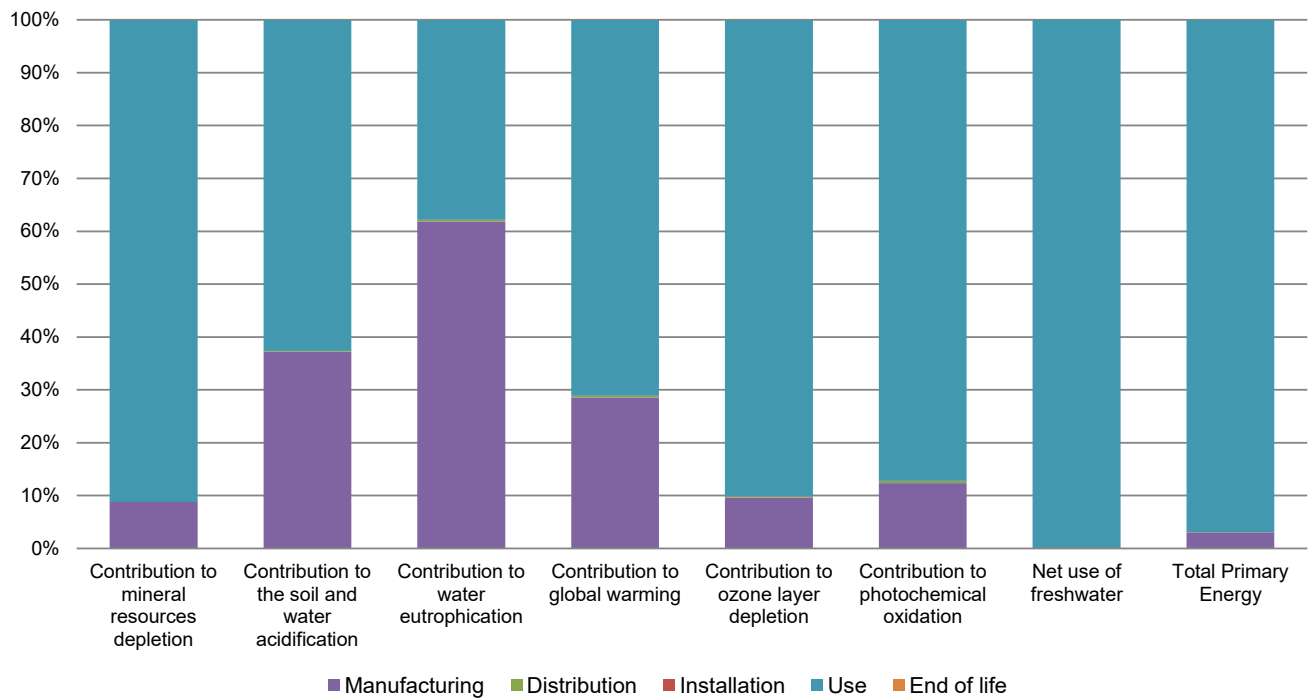
<b>Manufacturing</b>	Manufactured at a production site complying with the regulations
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 47.7 g, consisting of Cardboard (99.809%), wood (0.191%), PI Polyimide(0.000001%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	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).
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.  Recyclability potential: <b>83%</b> 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

<b>Reference life time</b>	10 years			
<b>Product category</b>	Other equipments - Active product			
<b>Installation elements</b>	No special installation components need during installation phase, but transport of packaging to disposal and disposal of packaging accounted for during installation.			
<b>Use scenario</b>	The product is in active mode 50% of the time with a power use of 55W and in Off mode 50% of the time for 10 years			
<b>Geographical representativeness</b>	Europe			
<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>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: China	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 Resistance heater - NSYCR55WU2					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.40E-04	1.23E-05	0*	0*	1.28E-04	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1.56E+00	5.78E-01	2.75E-03	0*	9.74E-01	0*
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2.35E-01	1.45E-01	7.44E-04	0*	8.88E-02	3.44E-05
Contribution to global warming	kg CO <sub>2</sub> eq	3.69E+02	1.05E+02	1.19E+00	0*	2.62E+02	5.01E-02
Contribution to ozone layer depletion	kg CFC11 eq	4.15E-04	4.01E-05	8.38E-07	0*	3.74E-04	0*
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	6.47E-02	7.99E-03	2.97E-04	0*	5.64E-02	1.53E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	6.21E+03	0*	0*	0*	6.21E+03	0*
Total Primary Energy	MJ	2.47E+04	7.54E+02	1.47E+01	0*	2.39E+04	0*




Optional indicators		ClimaSys Resistance heater - NSYCR55WU2						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	3.75E+03	7.18E+02	1.47E+01	0*	3.01E+03	5.74E-01	
Contribution to air pollution	m³	1.66E+04	7.73E+03	1.12E+02	0*	8.73E+03	5.06E+00	
Contribution to water pollution	m³	2.20E+04	8.56E+03	1.75E+02	0*	1.33E+04	5.50E+00	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	3.96E-03	3.96E-03	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	1.74E+03	5.11E+00	0*	0*	1.73E+03	0*	
Total use of non-renewable primary energy resources	MJ	2.29E+04	7.49E+02	1.47E+01	0*	2.22E+04	0*	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.74E+03	4.17E+00	0*	0*	1.73E+03	0*	
Use of renewable primary energy resources used as raw material	MJ	9.46E-01	9.46E-01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.29E+04	7.48E+02	1.47E+01	0*	2.22E+04	0*	
Use of non renewable primary energy resources used as raw material	MJ	7.71E-01	7.71E-01	0*	0*	0*	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	2.55E+00	1.48E+00	1.23E-03	0*	4.94E-01	5.77E-01	
Non hazardous waste disposed	kg	5.50E+02	1.37E+01	0*	0*	5.36E+02	0*	
Radioactive waste disposed	kg	7.93E+00	2.10E-02	0*	0*	7.91E+00	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	5.08E-01	5.19E-02	0*	4.74E-02	0*	4.09E-01	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	1.40E-03	0*	0*	0*	0*	1.40E-03	
Exported Energy	MJ	2.13E-04	2.00E-05	0*	1.93E-04	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 Manufacturing phase & Use phase are impacting equally on Indicator of Acidification potential of soil and water (total average for Europe), Eutrophication (fate not incl.). The use phase is the life cycle phase which has the greatest impact on the rest 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.*

<i>Registration number :</i>	SCHN-00683-V01.01-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Verifier accreditation N°</i>	VH39	<i>Supplemented by</i>	PSR-0005-ed2-EN-2016 03 29
<i>Date of issue</i>	05/2021	<i>Information and reference documents</i>	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal	External	X	
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<i>PEP are compliant with XP C08-100-1 :2016</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			
			

Schneider Electric Industries SAS  
Country Customer Care Center  
<http://www.schneider-electric.com/contact>  
35, rue Joseph Monier  
CS 30323  
F- 92506 Rueil Malmaison Cedex  
RCS Nanterre 954 503 439  
Capital social 896 313 776 €

[www.schneider-electric.com](http://www.schneider-electric.com)

SCHN-00683-V01.01-EN

Published by Schneider Electric

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05/2021