

Product Environmental Profile

ClimaSys standard cooling unit - 2000W





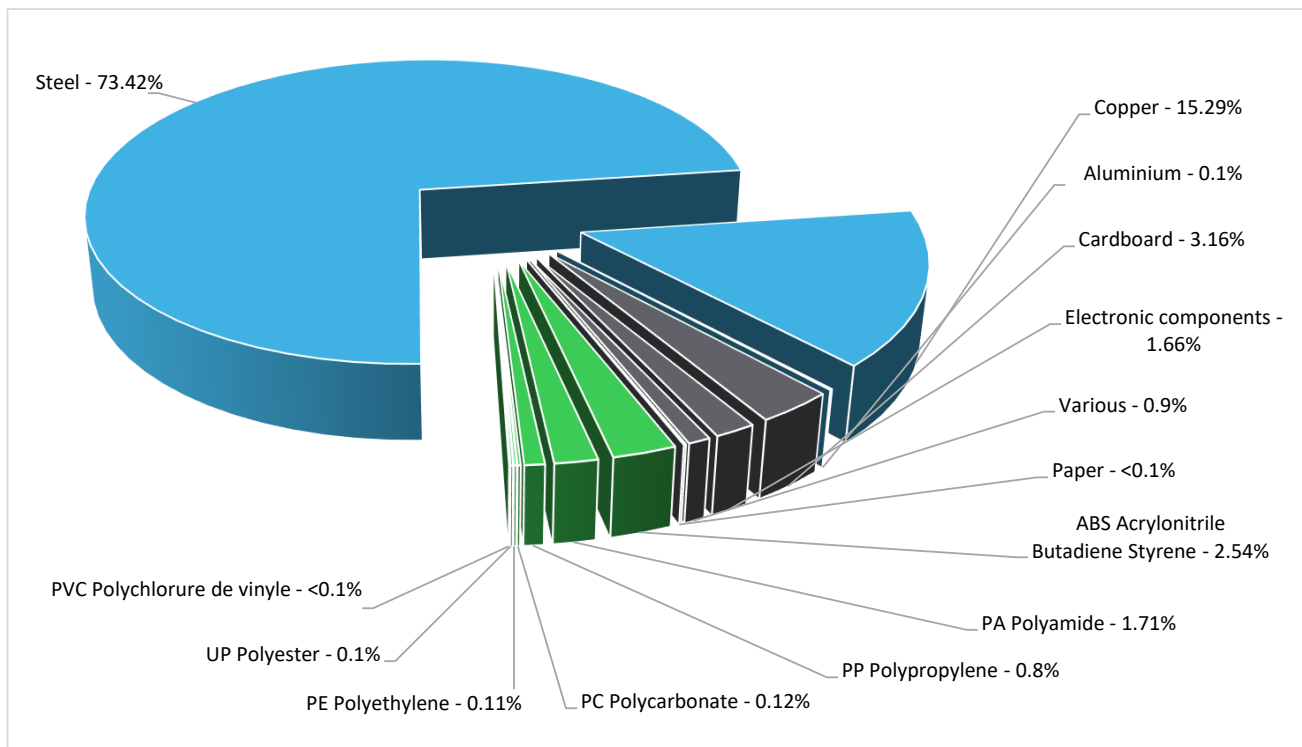
General information

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

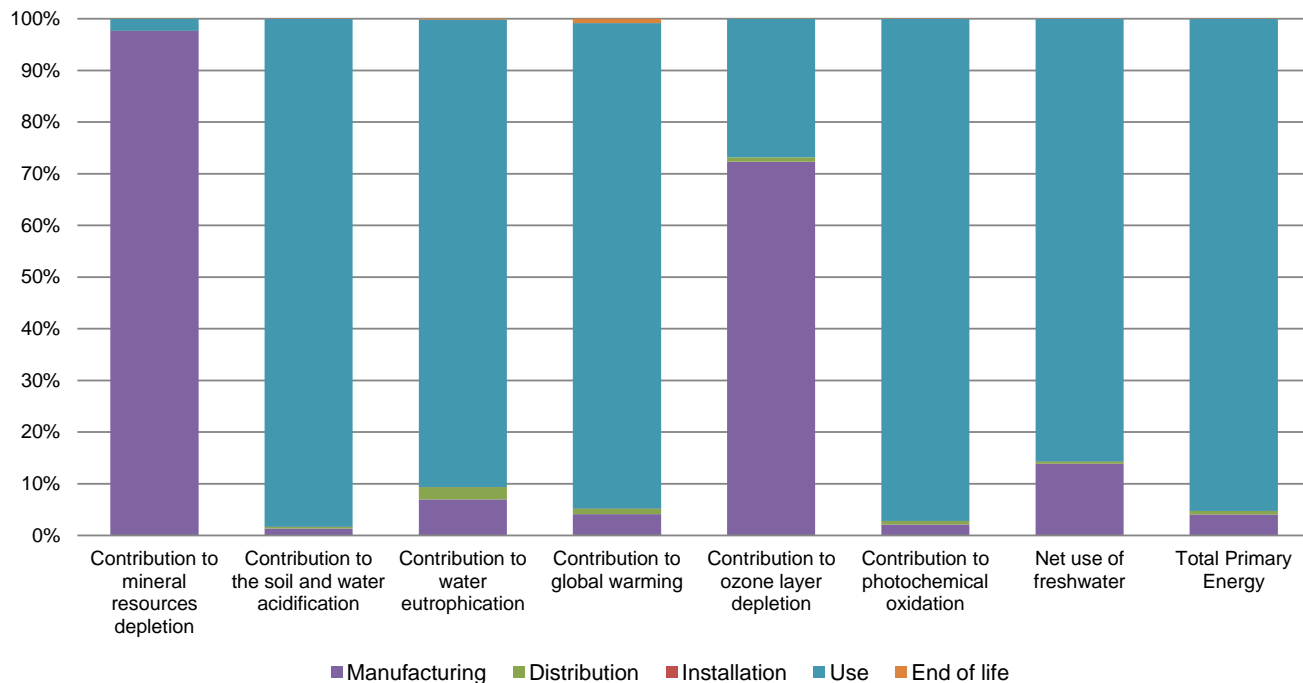
Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1694 g, consisting of Cardboard(94.61%),Paper(2.63%),UP Polyester(1.56%),PA Polyamide(1.20%) 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.

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 »			
			

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

Published by Schneider Electric

SCHN-00708-V01.01-EN

© 2019 - Schneider Electric – All rights reserved

12/2021