Product Environmental Profile

ClimaSys CA - Ventilation grills







General information

Reference product	ClimaSys CA - Ventilation grills - NSYCAG125LPF
Description of the product	ClimaSys CA-Ventilation grills is used to enable an air flow between the outside and the inside of an electrical panel. It could operate as an inlet or an outlet. It might be used in combination with fans, and depending on the environment several type of filters might be used. The air flow is here to let the fresh air entering and the hot air moving out from a panel
Description of the range	Single product
Functional unit	To transfer air for ventilation, for a connection cross-section of 1 dm², over the typical product lifetime of 17 years

Constituent materials

including the product, its packaging, additional elements and accessories 246 g PC Polycarbonate - 64.9%. Various - 0.7% Paper - 1.7% Stainless steel - 6.1% Cardboard - 26.6% _ Plastics 64.9% Metals 6.1%

Others 29.0%

Substance assessment

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

(19) Additional environmental information 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, End Of Life Recyclability potential: 8% 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	17 years						
Product category	Air supply, air exhaust grilles or air diffusers						
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 consumption	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 any installation operations						
Time representativeness	The collected data are representative of the year 2025						
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	Final assembly site	Use phase End-of-life					
representativeness	France	Eur	Europe				
	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
Energy model used	Electricity Mix; Low voltage; 2020; France, FR	No energy used	Electricity Mix; High voltage; 2020; Europe, EU-27	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	ClimaSys CA - Ventilation grills - NSYCAG125LPF							
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	2.40E+00	1.39E+00	4.88E-01	7.25E-02	0*	4.51E-01	-4.60E-02
Contribution to climate change-fossil	kg CO2 eq	2.33E+00	1.33E+00	4.88E-01	6.91E-02	0*	4.49E-01	-1.25E-01
Contribution to climate change-biogenic	kg CO2 eq	6.49E-02	5.97E-02	0*	3.45E-03	0*	1.72E-03	7.88E-02
Contribution to climate change-land use and land use change	e kg CO2 eq	1.95E-04	1.95E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.84E-07	5.28E-08	4.29E-07	9.41E-10	0*	1.20E-09	-1.04E-08
Contribution to acidification	mol H+ eq	7.25E-03	4.62E-03	2.01E-03	2.13E-04	0*	4.09E-04	-6.97E-04
Contribution to eutrophication, freshwater	kg P eq	1.00E-05	8.14E-06	5.69E-08	1.66E-06	0*	1.55E-07	-1.17E-06
Contribution to eutrophication marine	kg N eq	2.37E-03	1.22E-03	9.13E-04	9.25E-05	0*	1.42E-04	-1.43E-04
Contribution to eutrophication, terrestrial	mol N eq	2.39E-02	1.17E-02	9.90E-03	6.43E-04	0*	1.65E-03	-1.29E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	7.32E-03	3.47E-03	3.30E-03	1.47E-04	0*	4.02E-04	-3.69E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.21E-05	1.21E-05	0*	1.78E-09	0*	4.82E-09	-1.80E-05
Contribution to resource use, fossils	MJ	3.23E+01	2.46E+01	6.05E+00	7.20E-01	0*	9.27E-01	-2.15E+00
Contribution to water use	m3 eq	4.35E-01	3.66E-01	2.47E-02	5.61E-03	0*	3.86E-02	-4.12E-02

Inventory flows Indicators	ClimaSys CA - Ventilation grills - NSYCAG125LPF							
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 use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.91E-01	7.77E-01	0*	9.44E-02	0*	1.98E-02	2.21E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.41E+00	1.41E+00	0*	0*	0*	0*	-1.00E+00
Contribution to total use of renewable primary energy resources	MJ	2.30E+00	2.19E+00	0*	9.44E-02	0*	1.98E-02	-7.83E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.64E+01	1.87E+01	6.05E+00	7.20E-01	0*	9.27E-01	-2.15E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.94E+00	5.94E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	3.23E+01	2.46E+01	6.05E+00	7.20E-01	0*	9.27E-01	-2.15E+00
Contribution to use of secondary material	kg	0.00E+00	0*	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	1.01E-02	8.52E-03	5.74E-04	1.31E-04	0*	9.22E-04	-9.60E-04
Contribution to hazardous waste disposed	kg	8.82E-01	8.80E-01	4.03E-04	1.81E-03	0*	2.42E-04	-1.42E+00
Contribution to non hazardous waste disposed	kg	3.22E+00	3.00E+00	4.95E-04	3.11E-02	0*	1.93E-01	-8.80E-02
Contribution to radioactive waste disposed	kg	8.09E-04	7.02E-04	9.66E-05	3.84E-06	0*	7.30E-06	-3.99E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.69E-02	2.21E-03	0*	0*	0*	1.47E-02	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	3.14E-03	2.61E-05	0*	2.97E-03	0*	1.45E-04	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	0.00E+00						
Contribution to biogenic carbon content of the associated packaging	kg of C	1.93E-02						

^{*} 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%)

Life cycle assessment performed with EIME version v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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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Date of issue	06-2025	Validity period	5 years				
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006							
Internal	External X						

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 14025:2006 "Environmental labels and declarations. Type III environmental declarations"



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