

Product Environmental Profile

Thermostat, FCU, On/Off, Protocol, 3 Fan Auto, Deluxe, 240V, Capacitive,Bk



TC907 Series

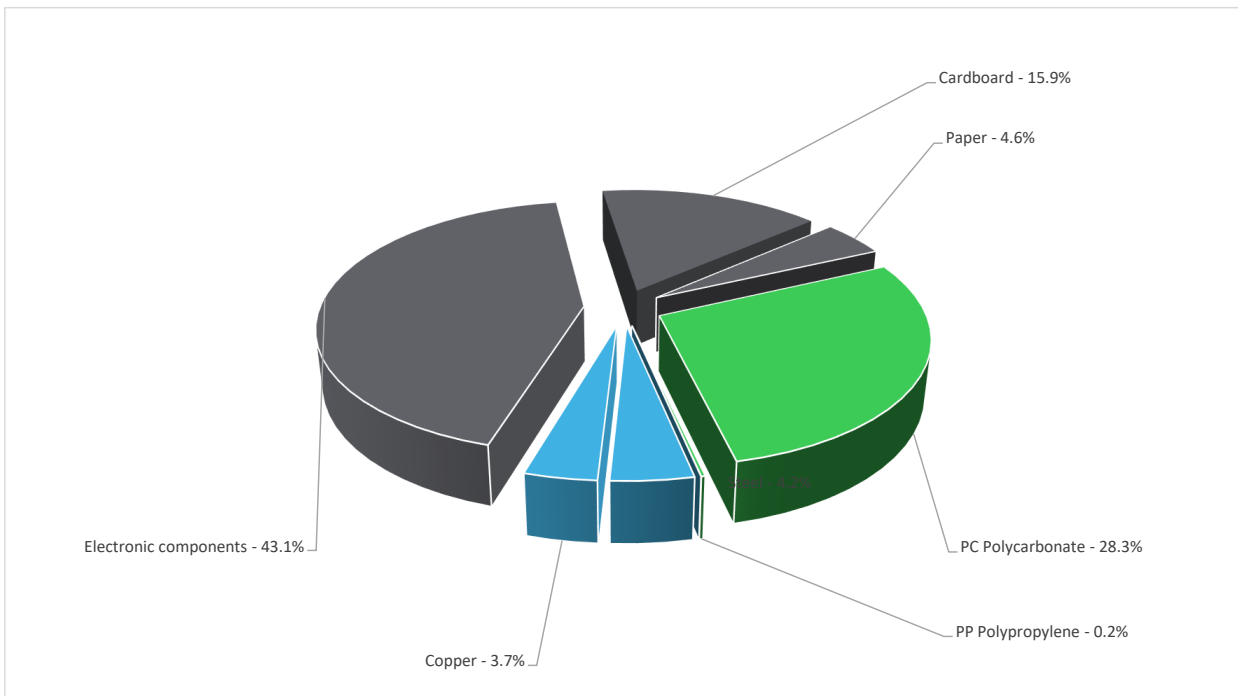


General information

Reference product	Thermostat, FCU, On/Off, Protocol, 3 Fan Auto, Deluxe, 240V, Capacitive,Bk - TC907-3A4LDPSAB
Description of the product	The TC900 series fan coil thermostats are optimized for office building, hotel, hospital and residential temperature control applications
Description of the range	Single product
Functional unit	The SpaceLogic TC900 series fan coil thermostat designed for temperature control in office buildings, hotels, hospitals, and residential applications, with a temperature setting range of 5 °C to 35 °C, a reference lifetime of 10 years, and compliance with IEC standards EN/IEC 60730-1 and EN/IEC 60730-2-9.
Specifications are:	Rated power supply voltage [Us] :- 90...240V AC [In] rated current :- 5A Degree of protection :- IP20 Meets standards :- EN/IEC 60730-1 EN/IEC 60730-2-9

Constituent materials

Reference product mass	220.77 g including the product, its packaging, additional elements and accessories
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Others	63.6%
Plastics	28.5%
Metals	7.9%

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:	5%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB 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).
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Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
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 negligible consumption			
Installation elements	The product does not require any installation operations & end of life of packaging is considered in installation phase. The material constituents of the packaging are Cardboard(65%), Paper(19%), Steel(16%).			
Use scenario	The product is in active mode 5% of the time with a power use of 2W , standby mode 50% of the time with power use of 1.2W, sleep mode 40% of the time with a power use of 0.6W and in other mode 5% of the time with power use of 0W for 10 years.			
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 representativeness	Final assembly site	Use phase		End-of-life
	China	Middle east and Africa (MEA), Europe (Eu), East Asia and Japan (EAJ)+India		Middle east and Africa (MEA), Europe (Eu), East Asia and Japan (EAJ)+India
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; China, CN	No energy used	Electricity Mix; High voltage; 2020; Egypt, EG	Global, European and French datasets are used.
			Electricity Mix; Low voltage; 2020; Europe, EU-27	
			Electricity Mix; Low voltage; 2020; India, IN	

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		Thermostat, FCU, On/Off, Protocol, 3 Fan Auto, Deluxe, 240V, Capacitive,Bk - TC907-3A4LDPSAB						
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	6.56E+01	1.10E+01	2.78E-01	1.17E-02	5.38E+01	4.85E-01	-2.06E-02
Contribution to climate change-fossil	kg CO2 eq	6.52E+01	1.11E+01	2.78E-01	0*	5.34E+01	4.85E-01	-1.90E-02
Contribution to climate change-biogenic	kg CO2 eq	3.15E-01	-5.12E-02	0*	6.44E-03	3.59E-01	6.76E-05	-1.61E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.06E-04	1.06E-04	0*	3.18E-11	0*	4.41E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.72E-06	4.29E-06	2.46E-07	2.07E-10	1.81E-07	7.25E-10	-5.63E-09
Contribution to acidification	mol H+ eq	2.86E-01	5.42E-02	1.21E-03	4.61E-05	2.30E-01	3.79E-04	-1.35E-03
Contribution to eutrophication, freshwater	kg P eq	6.14E-05	2.75E-05	3.26E-08	1.27E-08	3.17E-05	2.22E-06	-2.73E-08
Contribution to eutrophication, marine	kg N eq	4.03E-02	1.02E-02	5.56E-04	1.69E-05	2.94E-02	1.66E-04	-2.11E-05
Contribution to eutrophication, terrestrial	mol N eq	4.86E-01	1.11E-01	6.02E-03	1.89E-04	3.68E-01	1.74E-03	-2.48E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.36E-01	3.71E-02	1.98E-03	4.33E-05	9.68E-02	4.24E-04	-1.55E-04
Contribution to resource use, minerals and metals	kg Sb eq	2.25E-03	2.24E-03	2.39E-11	5.86E-10	7.35E-06	3.87E-09	-1.37E-05
Contribution to resource use, fossils	MJ	1.09E+03	1.36E+02	3.46E+00	8.52E-02	9.51E+02	7.76E-01	-3.53E-01
Contribution to water use	m3 eq	6.00E+00	3.41E+00	1.41E-02	4.42E-03	2.55E+00	2.04E-02	-6.63E-02

Inventory flows Indicators		Thermostat, FCU, On/Off, Protocol, 3 Fan Auto, Deluxe, 240V, Capacitive,Bk - TC907-3A4LDPSAB						
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	1.17E+02	7.66E+00	0*	0*	1.10E+02	1.84E-02	-3.49E-02
Contribution to renewable primary energy used as raw material	MJ	9.12E-01	9.12E-01	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	1.18E+02	8.58E+00	0*	0*	1.10E+02	1.84E-02	-3.49E-02
Contribution to non renewable primary energy used as energy	MJ	1.09E+03	1.33E+02	3.46E+00	0*	9.51E+02	7.76E-01	-3.53E-01
Contribution to non renewable primary energy used as raw material	MJ	3.56E+00	3.56E+00	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	1.09E+03	1.36E+02	3.46E+00	0*	9.51E+02	7.76E-01	-3.53E-01
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 fresh water	m³	1.39E-01	7.89E-02	3.29E-04	1.03E-04	5.94E-02	4.90E-04	-1.54E-03
Contribution to hazardous waste disposed	kg	2.93E+01	2.82E+01	0*	3.54E-03	9.35E-01	9.67E-02	-1.06E+00
Contribution to non hazardous waste disposed	kg	9.98E+00	2.13E+00	0*	4.65E-02	7.72E+00	7.71E-02	-3.12E-03
Contribution to radioactive waste disposed	kg	3.85E-03	1.75E-03	5.54E-05	0*	2.04E-03	3.65E-06	-2.25E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.25E-02	3.67E-03	0*	0*	0*	8.78E-03	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	1.16E-04	2.94E-05	0*	0*	0*	8.69E-05	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	1.39E-02						

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

Mandatory Indicators		Thermostat, FCU, On/Off, Protocol, 3 Fan Auto, Deluxe, 240V, Capacitive,Bk - TC907-3A4LDPSAB							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	5.38E+01	0*	0*	0*	0*	0*	5.38E+01	0*
Contribution to climate change-fossil	kg CO2 eq	5.34E+01	0*	0*	0*	0*	0*	5.34E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	3.59E-01	0*	0*	0*	0*	0*	3.59E-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	1.81E-07	0*	0*	0*	0*	0*	1.81E-07	0*
Contribution to acidification	mol H+ eq	2.30E-01	0*	0*	0*	0*	0*	2.30E-01	0*
Contribution to eutrophication, freshwater	kg P eq	3.17E-05	0*	0*	0*	0*	0*	3.17E-05	0*
Contribution to eutrophication marine	kg N eq	2.94E-02	0*	0*	0*	0*	0*	2.94E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	3.68E-01	0*	0*	0*	0*	0*	3.68E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	9.68E-02	0*	0*	0*	0*	0*	9.68E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	7.35E-06	0*	0*	0*	0*	0*	7.35E-06	0*
Contribution to resource use, fossils	MJ	9.51E+02	0*	0*	0*	0*	0*	9.51E+02	0*
Contribution to water use	m3 eq	2.55E+00	0*	0*	0*	0*	0*	2.55E+00	0*

Inventory flows Indicators		Thermostat, FCU, On/Off, Protocol, 3 Fan Auto, Deluxe, 240V, Capacitive,Bk - TC907-3A4LDPSAB							
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	1.10E+02	0*	0*	0*	0*	0*	1.10E+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	1.10E+02	0*	0*	0*	0*	0*	1.10E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.51E+02	0*	0*	0*	0*	0*	9.51E+02	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	9.51E+02	0*	0*	0*	0*	0*	9.51E+02	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	5.94E-02	0*	0*	0*	0*	0*	5.94E-02	0*
Contribution to hazardous waste disposed	kg	9.35E-01	0*	0*	0*	0*	0*	9.35E-01	0*
Contribution to non hazardous waste disposed	kg	7.72E+00	0*	0*	0*	0*	0*	7.72E+00	0*
Contribution to radioactive waste disposed	kg	2.04E-03	0*	0*	0*	0*	0*	2.04E-03	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

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	12-2025	Supplemented by Information and reference documents	PSR-0005-ed3.1-EN-2023 12 08 www.pep-ecopassport.org
		Validity period	5 years
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)			
PEPs are compliant with NF C08-100-1:2022 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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