Product Environmental Profile

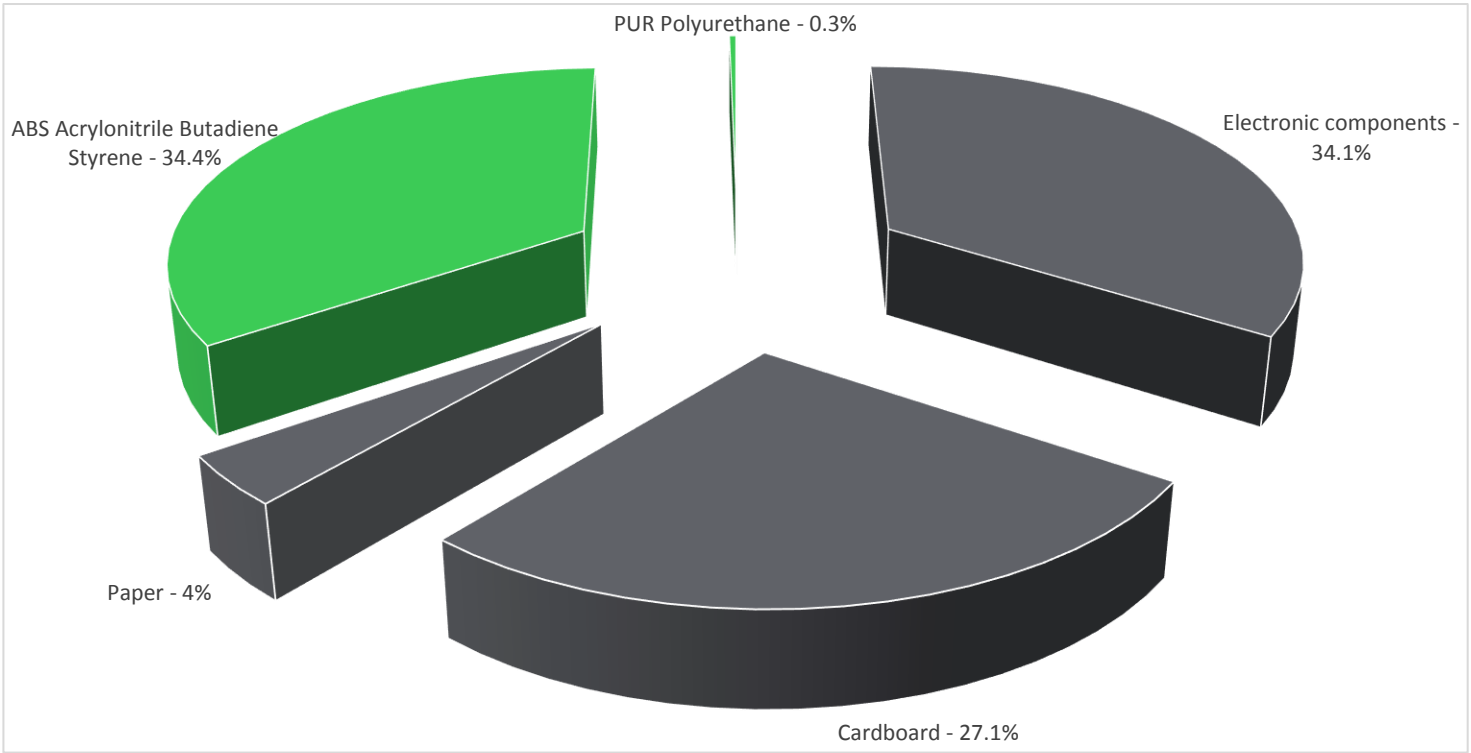
Wiser Heat Hub

General information

Representative product	Wiser Heat Hub - CCTFR6300
Description of the product	Wiser Heat Hub serves as two products in one; (1) it is the brain of the Wiser Heat system, managing the system's heating zones and schedules and relays information between Wiser cloud and the various heating devices (2) It is a wireless Internet gateway, connecting a Wiser system to the Internet, via a home Wi-Fi router, and thereby enabling cloud and mobile app access.
Functional unit	The Wiser Hub is connected to the WiFi router to enable communication through the internet to the Wiser system, and thereby enabling cloud and mobile app access for control of the heating system during 10 years.

Constituent materials

Reference product mass	260.6 g including the product, its packaging and additional elements and accessories



Plastics	34.7%
Metals	0.0%
Others	65.2%

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) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

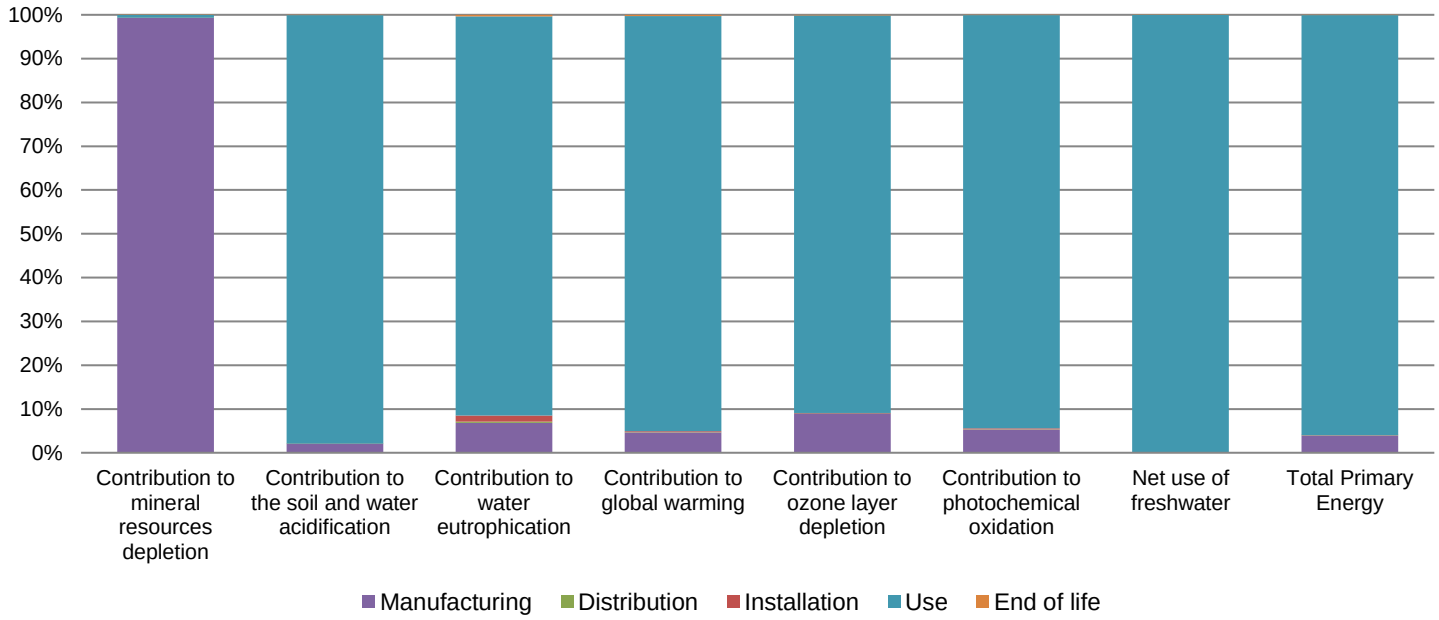
The Wiser Heat Hub presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 81.4 g, consisting of Cardboard 100% Product distribution optimised by setting up local distribution centres
Installation	Ref CCTFR6300 does not require any installation operations. The disposal of the packaging materials is 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 Card (26.82g), also product is supplied with a separate Power supply 5Vdc 1A (62.28g) 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: **7%** 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	10 years			
Product category	Other equipments - Active product			
Installation elements	Ref CCTFR6300 does not require any specific component for the installation. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).			
Use scenario	The CCTFR6300 is in active mode 100% run time with a consumption of 1.15W.			
Geographical representativeness	Europe			
Technological representativeness	Wiser Heat Hub serves as two products in one; (1) it is the brain of the Wiser Heat system, managing the system’s heating zones and schedules and relays information between Wiser cloud and the various heating devices (2) It is a wireless Internet gateway, connecting a Wiser system to the Internet, via a home Wi-Fi router, and thereby enabling cloud and mobile app access.			
	Manufacturing	**Installation**	**Use**	**End of life**

Energy model used	Energy model used: UK	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Wiser Heat Hub - CCTFR6300					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.96E-04	6.91E-04	0*	0*	4.29E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.10E-01	4.24E-03	1.54E-04	0*	2.06E-01	9.46E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	1.36E-02	9.31E-04	3.54E-05	1.97E-04	1.24E-02	4.86E-05
Contribution to global warming	kg CO_2 eq	5.21E+01	2.42E+00	3.36E-02	1.07E-01	4.94E+01	1.55E-01
Contribution to ozone layer depletion	kg CFC11 eq	3.54E-06	3.20E-07	0*	0*	3.22E-06	5.27E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	1.20E-02	6.35E-04	1.10E-05	2.55E-05	1.13E-02	7.69E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.79E+02	0*	0*	0*	1.79E+02	0*
Total Primary Energy	MJ	1.03E+03	4.07E+01	4.75E-01	0*	9.86E+02	3.98E-01



Optional indicators		Wiser Heat Hub - CCTFR6300					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	5.87E+02	2.56E+01	4.72E-01	0*	5.60E+02	3.26E-01
Contribution to air pollution	m³	2.55E+03	4.16E+02	1.43E+00	5.83E-01	2.12E+03	2.92E+00
Contribution to water pollution	m³	2.25E+03	1.99E+02	5.53E+00	5.33E+00	2.04E+03	6.50E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	8.67E-02	8.67E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.28E+02	2.16E+00	0*	0*	1.25E+02	0*
Total use of non-renewable primary energy resources	MJ	9.00E+02	3.86E+01	4.75E-01	0*	8.60E+02	3.98E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.27E+02	2.11E+00	0*	0*	1.25E+02	0*
Use of renewable primary energy resources used as raw material	MJ	5.63E-02	5.63E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	8.95E+02	3.40E+01	4.75E-01	0*	8.60E+02	3.98E-01

Use of non renewable primary energy resources used as raw material	MJ	4.60E+00	4.60E+00	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	1.15E+00	6.84E-01	0*	0*	2.57E-02	4.37E-01
Non hazardous waste disposed	kg	1.85E+02	5.43E-01	0*	8.27E-02	1.84E+02	0*
Radioactive waste disposed	kg	1.23E-01	4.58E-04	0*	0*	1.23E-01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.00E-02	1.73E-02	0*	0*	0*	1.27E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.26E-02	0*	0*	0*	0*	4.26E-02
Exported Energy	MJ	6.08E-03	2.42E-05	0*	6.05E-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 v5.8.1, 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.

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Date of issue	04/2019	*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 :2014

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

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