

Product Environmental Profile

Wiser Hub 2nd Generation





General information

Representative product

Wiser Hub 2nd Generation - WT704R1B30S4

Description of the product

Wiser Hub serves as two products in one; (1) it is the brain of the Wiser 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

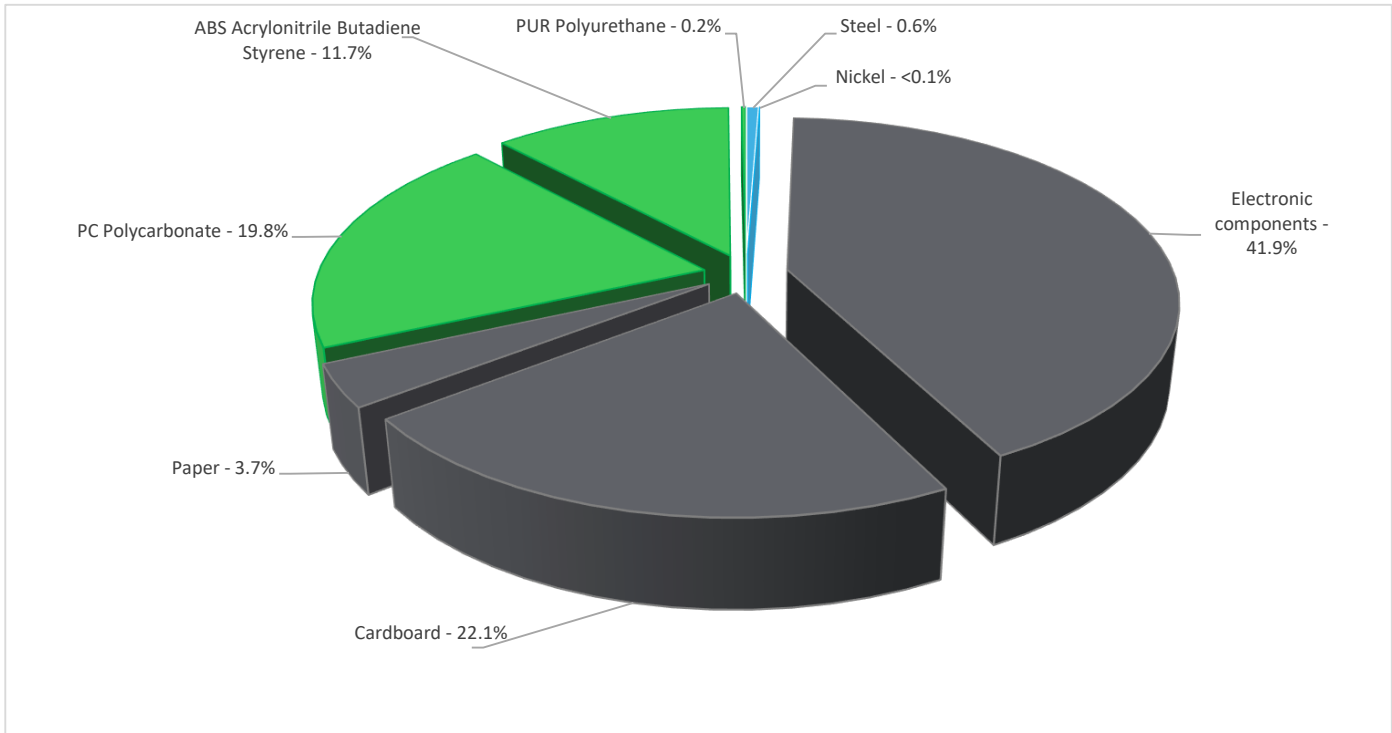
The Wiser Hub is connected to the WiFi router to enable communication through the internet to the Wiser system, and thereby enabling cloud and mobile app access for control of the heating system during 10 years.



Constituent materials

Reference product mass

336.9 g including the product, its packaging and additional elements and accessories



Plastics	31.7%
Metals	0.6%
Others	67.7%



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 Wiser Hub 2nd Generation presents the following relevant environmental aspects

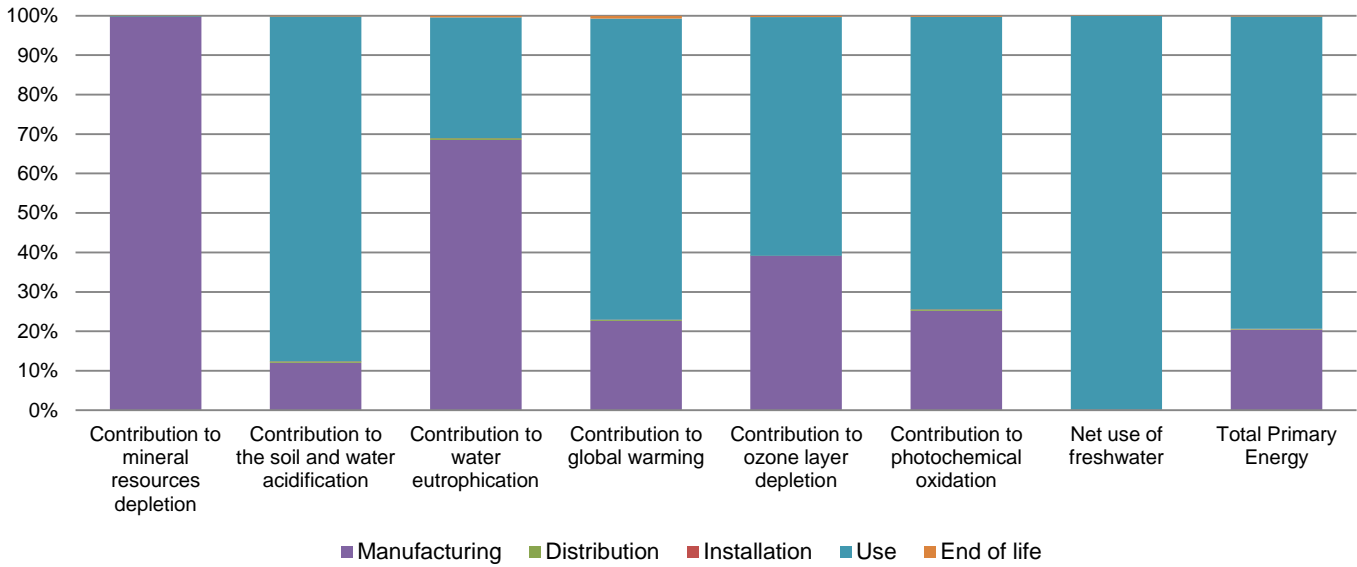
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 88.7 g, consisting of Cardboard (88%) Paper (12%) Product distribution optimised by setting up local distribution centres
Installation	Ref WT704R1B30S4 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 (26.009g), also product is supplied with a separate Power supply 5Vdc (94.75g) and 2 Pin Head (26.14g) 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: 21% Based on "ECO'DEEEE 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 WT704R1B30S4 does not require any installation operations. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal)		
Use scenario	Based on PSR0005 scenario: Active mode = 5W, 14 % of RLT (Reference Life Time) [Electronic measurement consumption] StandBy mode = 1W, 86 % of RLT [only electronic measurement consumption]		
Geographical representativeness	Europe		
Technological representativeness	Wiser Hub serves as two products in one; (1) it is the brain of the Wiser 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.		
Energy model used	Manufacturing	Installation	Use
	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
			End of life Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Wiser Hub 2nd Generation - WT704R1B30S4					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.20E-04	1.20E-04	0*	0*	2.52E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.38E-02	1.66E-03	5.01E-05	3.95E-06	1.21E-02	2.54E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2.38E-03	1.63E-03	1.15E-05	9.60E-07	7.29E-04	9.88E-06
Contribution to global warming	kg CO ₂ eq	3.79E+00	8.59E-01	1.10E-02	9.48E-04	2.89E+00	2.66E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.11E-07	1.22E-07	0*	0*	1.89E-07	9.79E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	8.95E-04	2.25E-04	3.57E-06	2.95E-07	6.64E-04	2.37E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.05E+01	9.98E-03	0*	0*	1.05E+01	0*
Total Primary Energy	MJ	7.30E+01	1.49E+01	1.55E-01	1.24E-02	5.78E+01	1.16E-01



Optional indicators		Wiser Hub 2nd Generation - WT704R1B30S4					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.13E+01	8.16E+00	1.54E-01	1.23E-02	3.29E+01	9.40E-02
Contribution to air pollution	m ³	2.60E+02	1.34E+02	4.67E-01	3.78E-02	1.25E+02	8.39E-01
Contribution to water pollution	m ³	3.27E+02	2.05E+02	1.80E+00	1.44E-01	1.19E+02	1.39E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.17E-02	2.17E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	8.00E+00	6.46E-01	0*	0*	7.35E+00	0*
Total use of non-renewable primary energy resources	MJ	6.50E+01	1.42E+01	1.55E-01	1.24E-02	5.05E+01	1.16E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.99E+00	6.42E-01	0*	0*	7.35E+00	0*
Use of renewable primary energy resources used as raw material	MJ	3.81E-03	3.81E-03	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.30E+01	1.22E+01	1.55E-01	1.24E-02	5.05E+01	1.16E-01
Use of non renewable primary energy resources used as raw material	MJ	1.97E+00	1.97E+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	4.78E-01	3.59E-01	0*	0*	1.51E-03	1.17E-01
Non hazardous waste disposed	kg	1.12E+01	4.01E-01	0*	0*	1.08E+01	0*
Radioactive waste disposed	kg	7.48E-03	2.66E-04	0*	0*	7.21E-03	0*

Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5.39E-02	7.28E-03	0*	1.74E-02	0*	2.92E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6.32E-03	0*	0*	0*	0*	6.32E-03
Exported Energy	MJ	5.54E-05	5.21E-06	0*	5.02E-05	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.

Registration number :	SCHN-00721-V02.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
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		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 »			



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