

Product Environmental Profile

Wiser 1Chanel HUBr





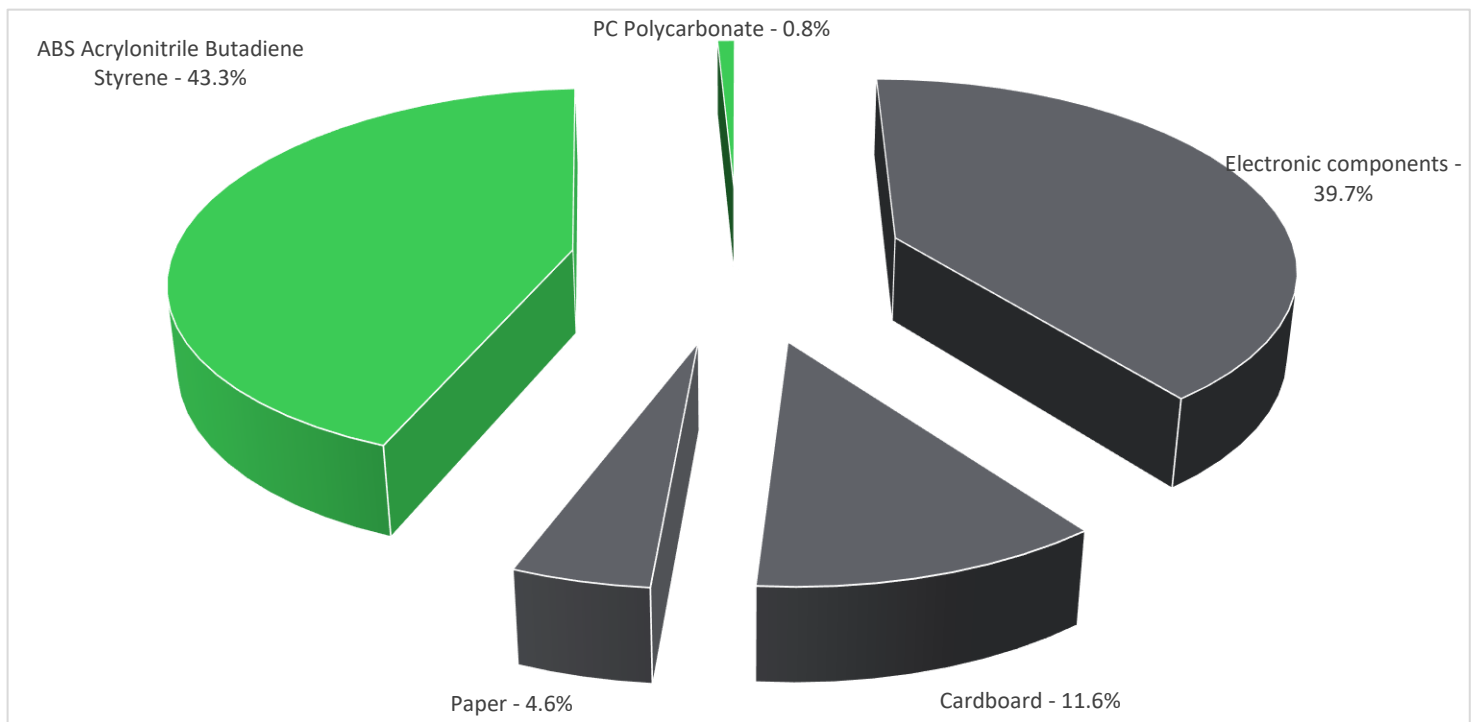
General information

Representative product	Wiser 1Chanel HUBr - WT714R1S0902
Description of the product	The Wiser Heat Hubr is the brains of the system, interfacing with the controls through 2.4Ghz RF Mesh Technology and Wi-Fi access to allow internet access for the APP.
Functional unit	Wiser Heat HubR operates as a Wi-Fi access point allowing local app access and access through the internet. Linking through 2.4GHz RF mesh technology to the iTRV (up to 4 per zone) and Room Thermostat (1 per zone) to set ambient temperature in up to 16 heating zones according to a temperature set by the user in a range of ambient temperature between 0° à 35°C, with a temperature steps of 0,5°C.



Constituent materials

Reference product mass	256.028 g including the product, its packaging and additional elements and accessories
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Plastics	44.1%
Metals	0.0%
Others	55.9%



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) 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 1Chanel HUBr presents the following relevant environmental aspects

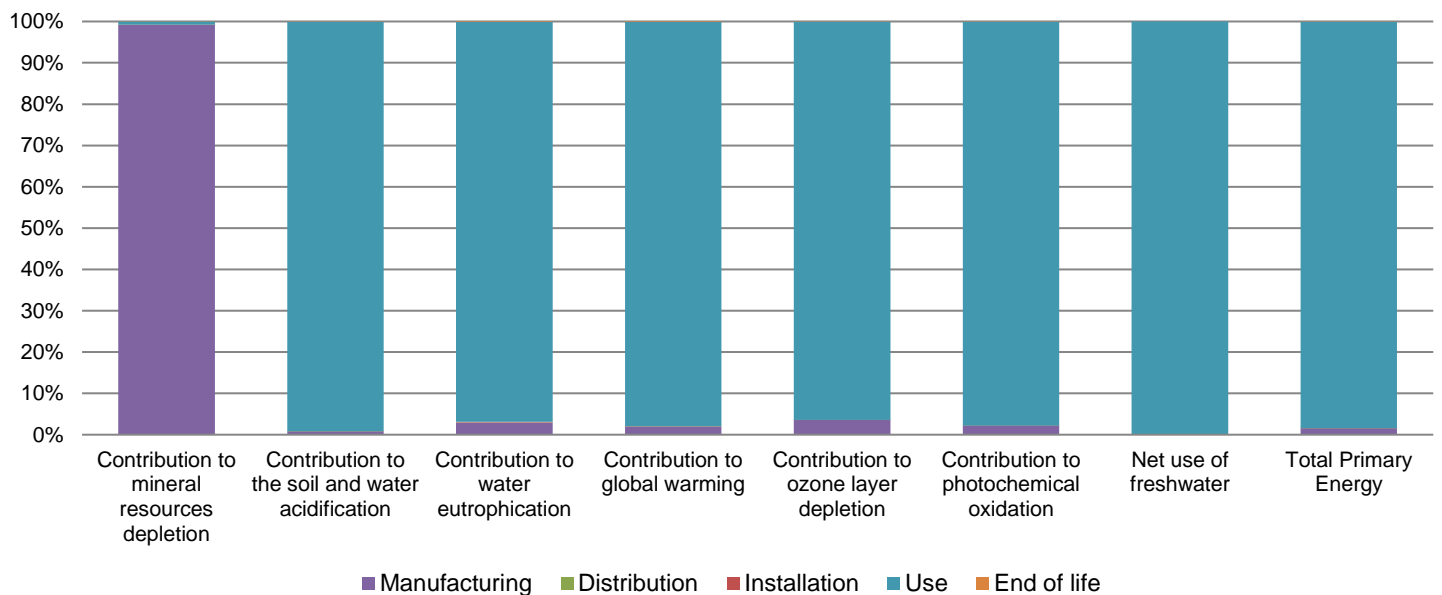
Design	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 41 g, consisting of Cardboard (100%) Product distribution optimised by setting up local distribution centres
Installation	Ref WT714R1S0902 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 2 Electronic Cards (56.7644g) and (4.444g) 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 WT714R1S0902 does not require any special component for the installation operations. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).			
Use scenario	The product is in active mode 100% of the time with a power use of 4.04W , for 10 years.			
Geographical representativeness	Europe			
Technological representativeness	The Wiser Heat Hubr is the brains of the system, interfacing with the controls through 2.4Ghz RF Mesh Technology and Wi-Fi access to allow internet access for the APP.			
Energy model used	Manufacturing	Installation	Use	End of life
	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 1Chanel HUBr - WT714R1S0902					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.01E-03	1.99E-03	0*	0*	1.51E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	7.29E-01	5.88E-03	1.51E-04	0*	7.23E-01	1.09E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	4.51E-02	1.30E-03	3.47E-05	8.69E-05	4.37E-02	5.55E-05
Contribution to global warming	kg CO ₂ eq	1.77E+02	3.49E+00	3.30E-02	5.08E-02	1.73E+02	1.76E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.17E-05	4.24E-07	0*	0*	1.13E-05	5.98E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	4.07E-02	8.86E-04	1.08E-05	1.20E-05	3.97E-02	8.96E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life

Net use of freshwater	m3	6.29E+02	0*	0*	0*	6.29E+02	0*
Total Primary Energy	MJ	3.52E+03	5.57E+01	4.67E-01	0*	3.46E+03	4.62E-01



Optional indicators		Wiser 1Chanel HUBr - WT714R1S0902					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.00E+03	3.53E+01	4.64E-01	0*	1.97E+03	3.79E-01
Contribution to air pollution	m ³	8.17E+03	6.97E+02	1.41E+00	0*	7.46E+03	3.39E+00
Contribution to water pollution	m ³	7.46E+03	2.90E+02	5.43E+00	2.25E+00	7.15E+03	7.43E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.40E-02	4.40E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4.42E+02	1.56E+00	0*	0*	4.40E+02	0*
Total use of non-renewable primary energy resources	MJ	3.08E+03	5.41E+01	4.66E-01	0*	3.02E+03	4.62E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.42E+02	1.54E+00	0*	0*	4.40E+02	0*
Use of renewable primary energy resources used as raw material	MJ	2.34E-02	2.34E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.07E+03	4.86E+01	4.66E-01	0*	3.02E+03	4.62E-01
Use of non renewable primary energy resources used as raw material	MJ	5.58E+00	5.58E+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	8.43E+00	7.83E+00	0*	0*	9.04E-02	5.11E-01
Non hazardous waste disposed	kg	6.47E+02	9.46E-01	0*	0*	6.46E+02	0*
Radioactive waste disposed	kg	4.33E-01	8.45E-04	0*	0*	4.32E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.03E-02	1.53E-02	0*	0*	0*	1.51E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.81E-02	0*	0*	0*	0*	4.81E-02
Exported Energy	MJ	6.65E-03	1.22E-05	0*	6.64E-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 v5.7.0.3, 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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		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 »			



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