Product Environmental Profile

Wiser Hub 2nd Generation







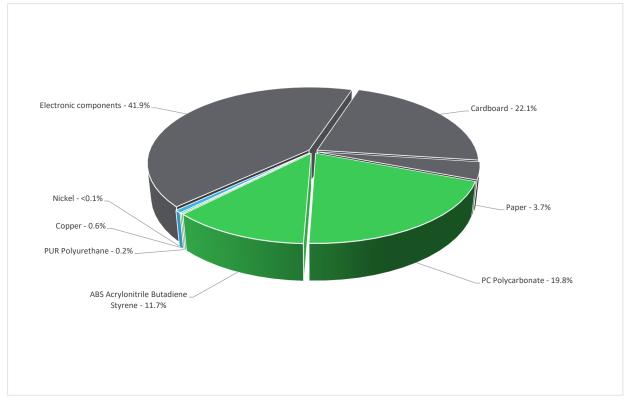
General information

Reference 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.
Description of the range	Single product
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 and its packaging



 Plastics
 31.70%

 Metals
 0.60%

 Others
 67.70%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

1%

https://www.se.com/ww/en/work/support/green-premium/

(1) Additional environmental information

End Of Life Recyclability potential:

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, data from the EIME database, the ESR 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	10 years								
Product category	Other equipments - Active product								
Installation elements	The product does not require special installation products are accounted during the installation ph			sal of the packaging					
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]							
Time representativeness	The collected data are representative of the year	2023							
Technological representativeness	The Modules of Technologies such as material produced (LCA EIME in the case) are Similar and représen								
Geographical representativeness	Europe								
	[A1 - A3]	[A5]	[B6]	[C1 - C4]					
Energy model used	Electricity Mix; High voltage; 2018; United Kingdom, GB	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27					

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.schneiderelectric.com/contact

Mandatory Indicators	Wiser Hub 2nd Generation - WT704R1B30S4							
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	6.51E+01	8.02E+00	1.79E-01	9.49E-02	5.60E+01	7.53E-01	-1.06E-01
Contribution to climate change-fossil	kg CO2 eq	6.50E+01	7.99E+00	1.79E-01	9.04E-02	5.59E+01	7.52E-01	-9.47E-02
Contribution to climate change-biogenic	kg CO2 eq	1.10E-01	3.00E-02	0*	4.49E-03	7.47E-02	4.00E-04	-1.15E-02
Contribution to climate change-land use and land use change	e kg CO2 eq	5.32E-08	4.64E-08	0*	0*	0*	6.79E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.47E-06	1.07E-06	1.58E-07	1.23E-09	2.40E-07	8.30E-10	-4.15E-09
Contribution to acidification	mol H+ eq	3.73E-01	5.13E-02	7.88E-04	2.77E-04	3.20E-01	5.56E-04	-8.08E-04
Contribution to eutrophication, freshwater	kg (PO4)³⁻eq	2.04E-04	3.20E-05	2.10E-08	2.17E-06	1.53E-04	1.62E-05	-1.42E-06
Contribution to eutrophication marine	kg N eq	4.31E-02	6.01E-03	3.63E-04	1.21E-04	3.63E-02	2.53E-04	-1.50E-04
Contribution to eutrophication, terrestrial	mol N eq	6.18E-01	6.54E-02	3.93E-03	8.39E-04	5.46E-01	2.65E-03	-1.26E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.45E-01	2.60E-02	1.28E-03	1.92E-04	1.17E-01	6.38E-04	-3.46E-04
Contribution to resource use, minerals and metals	kg Sb eq	2.66E-03	2.66E-03	0*	0*	4.06E-06	3.58E-07	-2.66E-06
Contribution to resource use, fossils	MJ	1.59E+03	1.60E+02	2.23E+00	9.39E-01	1.43E+03	9.71E-01	-1.17E+00
Contribution to water use	m3 eq	7.17E+00	5.13E+00	9.10E-03	7.31E-03	1.98E+00	4.15E-02	-3.80E-02

Inventory flows Indicators	Wiser Hub 2nd Generation - WT704R1B30S4							
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	2.77E+02	2.81E+00	0*	1.23E-01	2.74E+02	0*	2.94E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.30E-01	1.30E-01	0*	0*	0*	0*	-1.31E+00
Contribution to total use of renewable primary energy resources	MJ	2.77E+02	2.94E+00	0*	1.23E-01	2.74E+02	0*	-1.02E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.59E+03	1.56E+02	2.23E+00	9.39E-01	1.43E+03	9.71E-01	-1.17E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.85E+00	3.85E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.59E+03	1.60E+02	2.23E+00	9.39E-01	1.43E+03	9.71E-01	-1.17E+00
Contribution to use of secondary material	kg	1.39E-01	1.39E-01	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	1.67E-01	1.19E-01	2.12E-04	1.70E-04	4.61E-02	9.67E-04	-8.86E-04
Contribution to hazardous waste disposed	kg	3.29E+01	3.17E+01	0*	0*	1.05E+00	1.44E-01	-2.45E-01
Contribution to non hazardous waste disposed	kg	9.44E+00	1.22E+00	0*	4.05E-02	8.06E+00	1.18E-01	-5.46E-02
Contribution to radioactive waste disposed	kg	2.81E-03	1.08E-03	3.57E-05	5.01E-06	1.69E-03	5.14E-06	-2.52E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.34E-03	1.35E-03	0*	0*	0*	2.00E-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	3.90E-03	9.02E-06	0*	3.87E-03	0*	1.98E-05	0.00E+00

 $^{^{\}star}$ represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	2.61E-02

The calculation of the biogenic carbon is based on the Ademe for the Cardborad (28%), and APESA/RECORD for paper (37.8%).

Mandatory Indicators				Wise	r Hub 2nd	Genera	tion - WT	704R1B30S4	
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	5.60E+01	0*	0*	0*	0*	0*	5.60E+01	0*
Contribution to climate change-fossil	kg CO2 eq	5.59E+01	0*	0*	0*	0*	0*	5.59E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	7.47E-02	0*	0*	0*	0*	0*	7.47E-02	0*
Contribution to climate change-land use and land use change	e kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	2.40E-07	0*	0*	0*	0*	0*	2.40E-07	0*
Contribution to acidification	mol H+ eq	3.20E-01	0*	0*	0*	0*	0*	3.20E-01	0*
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	1.53E-04	0*	0*	0*	0*	0*	1.53E-04	0*
Contribution to eutrophication marine	kg N eq	3.63E-02	0*	0*	0*	0*	0*	3.63E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	5.46E-01	0*	0*	0*	0*	0*	5.46E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.17E-01	0*	0*	0*	0*	0*	1.17E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	4.06E-06	0*	0*	0*	0*	0*	4.06E-06	0*
Contribution to resource use, fossils	MJ	1.43E+03	0*	0*	0*	0*	0*	1.43E+03	0*
Contribution to water use	m3 eq	1.98E+00	0*	0*	0*	0*	0*	1.98E+00	0*

Inventory flows Indicators	Wiser Hub 2nd Generation - WT704R1B30S4								
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	2.74E+02	0*	0*	0*	0*	0*	2.74E+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	2.74E+02	0*	0*	0*	0*	0*	2.74E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.43E+03	0*	0*	0*	0*	0*	1.43E+03	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	1.43E+03	0*	0*	0*	0*	0*	1.43E+03	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	4.61E-02	0*	0*	0*	0*	0*	4.61E-02	0*
Contribution to hazardous waste disposed	kg	1.05E+00	0*	0*	0*	0*	0*	1.05E+00	0*
Contribution to non hazardous waste disposed	kg	8.06E+00	0*	0*	0*	0*	0*	8.06E+00	0*
Contribution to radioactive waste disposed	kg	1.69E-03	0*	0*	0*	0*	0*	1.69E-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 v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 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.

Registration number:	SCHN-00721-V02.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06						
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08						
Verifier accreditation N°	0	Information and reference documents	www.pep-ecopassport.org						
Date of issue	08-2024	Validity period	5 years						
Independent verification of the	he declaration and data, in compliance with ISO 1402	5 : 2006							
Internal	External X								
The PCR review was conduc	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.									
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Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"

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