Product Environmental Profile

Eaton 9395XP 1360 kW UPS

Representative product	Eaton 9395XP 1360 kW (9395XP-1360(1360)-1360-S) Product Category: Uninterruptible Power Supply (UPS) without energy storage system
Description of the product	Eaton 9395XP 3-phase UPS has been developed to combine protection, security, and business continuity in a flexible, efficient, and cost-effective modular, scalable design. It provides operational mode as online Double Conversion Mode (DCM). It has the highest possible availability and the lowest total cost of ownership in its class, which makes Eaton 9395XP UPS the perfect solution for data center operators. Eaton 9395XP series comes in various configurations depending on customer needs.
Product specifications	Power VA & kW: 1360 kVA (1360 kW) UPS Configuration: Three phase, Double conversion, 2-level MOSFET Converters and Single UPS with Bypass Number of UPM: 4 Mode of Operation: Single normal mode UPS performance classification: VFI-SS-111 Product dimensions (H X W X D): 2830x920x2070 mm Rated output voltage: 380V / 400V / 415V Max. energy efficiency: 97.5% Power factor: 1.0 Reference service life (Years): 15

Homogeneous Environmental Families Covered	The PEP concerns product offerings from 9395XP series as mentioned below:

Product family	Model Range	Model Description	Weighted energy efficiency [%]	Product weight (Actual) kg	Packaging Mass kg	Power (Kw)	Number of UPM
Eaton 9395XP	Eaton 9395XP 300-1360 kW range	9395XP-1360(1360)-1360-S (Reference)	97.35%	2965	51.05	1360	4
	Eaton 9395XP 300-1360 kW range	9395XP-1200(1360)-1200-S	97.35%	2965	51.05	1200	4
	Eaton 9395XP 300-1360 kW range	9395XP-1360(1360)-1360-L	97.35%	3105	53.46	1360	4
	Eaton 9395XP 300-1360 kW range	9395XP-1200(1360)-1200-L	97.35%	3105	53.46	1200	4
	Eaton 9395XP 300-1360 kW range	9395XP-1020(1360)-1360-L	97.35%	2755	47.43	1020	3
	Eaton 9395XP 300-1360 kW range	9395XP-900(1360)-1200-L	97.35%	2755	47.43	900	3
	Eaton 9395XP 300-1020 kW range	9395XP-1020(1360)-1020-L	97.35%	2672	46.01	1020	3
	Eaton 9395XP 300-1020 kW range	9395XP-900(1360)-900-L	97.35%	2672	46.01	900	3
	Eaton 9395XP 300-1360 kW range	9395XP-1020(1360)-1360-S	97.35%	2615	45.02	1020	3
	Eaton 9395XP 300-1360 kW range	9395XP-900(1360)-1200-S	97.35%	2615	45.02	900	3
	Eaton 9395XP 300-1020 kW range	9395XP-1020(1360)-1020-S	97.35%	2532	43.59	1020	3
	Eaton 9395XP 300-1020 kW range	9395XP-900(1360)-900-S	97.35%	2532	43.59	900	3
	Eaton 9395XP 300-1360 kW range	9395XP-680(1360)-1360-L	97.35%	2405	41.41	680	2
	Eaton 9395XP 300-1360 kW range	9395XP-600(1360)-1200-L	97.35%	2405	41.41	600	2
	Eaton 9395XP 300-1020 kW range	9395XP-680(1360)-1020-L	97.35%	2322	39.98	680	2
	Eaton 9395XP 300-1020 kW range	9395XP-600(1360)-900-L	97.35%	2322	39.98	600	2
	Eaton 9395XP 300-1360 kW range	9395XP-680(1360)-1360-S	97.35%	2265	39	680	2
	Eaton 9395XP 300-1360 kW range	9395XP-600(1360)-1200-S	97.35%	2265	39	600	2
	Eaton 9395XP 300-1020 kW range	9395XP-680(1360)-1020-S	97.35%	2182	37.57	680	2
	Eaton 9395XP 300-1020 kW range	9395XP-600(1360)-900-S	97.35%	2182	37.57	600	2
	Eaton 9395XP 300-1360 kW range	9395XP-340(1360)-1360-L	97.35%	2055	35.38	340	1
	Eaton 9395XP 300-1360 kW range	9395XP-300(1360)-1200-L	97.35%	2055	35.38	300	1
	Eaton 9395XP 300-1020 kW range	9395XP-340(1360)-1020-L	97.35%	1972	33.95	340	1
	Eaton 9395XP 300-1020 kW range	9395XP-300(1360)-900-L	97.35%	1972	33.95	300	1
	Eaton 9395XP 300-1360 kW range	9395XP-340(1360)-1360-S	97.35%	1915	32.97	340	1
	Eaton 9395XP 300-1360 kW range	9395XP-300(1360)-1200-S	97.35%	1915	32.97	300	1
	Eaton 9395XP 300-1020 kW range	9395XP-340(1360)-1020-S	97.35%	1832	31.54	340	1
	Eaton 9395XP 300-1020 kW range	9395XP-300(1360)-900-S	97.35%	1832	31.54	300	1

Functional unit	To ensure the supply of power to remain within specified characteristics to equipment with load of 100 watts for a RSL of 1 year.
Declared unit	To ensure the supply of power to remain within specified characteristics to equipment with load of 1360,000 watts for a RSL of 15 years.
Company information	Eaton Electric Oy Riistakuja 1, 01740 Vantaa, Finland Email: productstewardship-es@eaton.com

Constituent Materials of Reference Product:	2.94E+03 kg (with packaging)		
Category PEP Material	**Materials**	**Mass (kg)**	**Percentage (%)**
Metals	Steel	1.66E+03	56.4%
Metals	Aluminium	4.92E+02	16.7%
Others	Electronics	1.99E+02	6.8%
Metals	Copper	1.90E+02	6.5%
Metals	Stainless Steel	9.51E+01	3.2%
Others	Cables	5.18E+01	1.8%
Others	Cardboard	5.11E+01	1.7%
Plastics	Polycarbonate	4.79E+01	1.6%
Plastics	Polyethylene Terephthalate	2.27E+01	0.8%
Plastics	Polyethylene	1.51E+01	0.5%
Plastics	Polyester	1.51E+01	0.5%
Plastics	Polybutylene Terephthalate	1.27E+01	0.4%
Plastics	Polyoxymethylene	1.19E+01	0.4%
Plastics	Polyamide	1.10E+01	0.4%
Metals	Brass	6.66E+00	0.2%
Others	Miscellaneous	6.02E+01	2.1%
Total		**2.94E+03**	**100.0%**

Additional Environmental Information	
Manufacturing	The product is assembled and packed at Eaton facility. The Eaton plant has environment and energy management system certification according to ISO 14001 standard.
Distribution	Eaton is committed to minimizing weight and volume of product and its associated packaging material with focus to optimize transport efficiency.
Installation	The product only standard tools are needed, which do not require any additional energy source and no waste other than the obsolete product packaging is generated during this step.
Use	Though maintenance requirements of the UPS have been minimized, the current Product Specific Rule applicable to this kind of product requires the replacement of parts including- manufacturing, delivery to the site of use and waste collection & treatment of: ○ DC and AC capacitors of filtering (2 times) ○ Fans (3 times) ○ Power supply PCBs (2 times)
End of life	The recyclability rate of the overall product is 83.8 % if properly dismantled prior to further processing at a recycling facility. The rate is calculated 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

The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life.
System modelling was carried out using the commercial LCA software EIME v6.2-22 with database version CODDE-2024-04-24
Indicators Set used: PEF EF 3.0 (Compliance: PEP ed.4, EN15804+A2) v2.0

<table>
<tr><td>Manufacturing Phase</td><td>Product is assembled and prepared for shipment at the Eaton facility, Eaton Electric Oy
Riistakuja 1, 01740 Vantaa, Finland
Energy model used: Finland, China, Europe</td></tr>
<tr><td>Distribution Phase</td><td>Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.</td></tr>
<tr><td>Installation Phase</td><td>Product is installed in any European country. Hence, packaging waste treatment is considered in this phase considering country specific statistics as per PSR.
Energy model used: Europe</td></tr>
<tr><td>Use Phase</td><td>Reference lifetime: 15 years
Usage profile: It has a weighted average energy efficiency of 97.35 %. The methodology for the calculation of the electricity consumption is based on Uninterruptible Power Supplies (UPS) PSR.
<table><tr><td>Operating loads</td><td>25%</td><td>50%</td><td>75%</td><td>100%</td></tr><tr><td>Proportion of Time spent at</td><td>0.25</td><td>0.50</td><td>0.25</td><td>0.00</td></tr></table>
Total energy losses are calculated to be equal to 2412504 kWh over the 15 years.
Energy model used: Europe.</td></tr>
<tr><td>End of life Phase</td><td>Product disposed according to European WEEE guidelines.
Energy model used: Europe</td></tr>
<tr><td>Module D</td><td>Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario.
It expresses the net benefits and loads beyond the boundaries of the system and are not to be included in the life cycle totals.</td></tr>
</table>

Environmental Impact for Declared unit-Double conversion Mode

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)*	End of Life (C1-C4)	Maintenance (B2)	Operational energy use (B6)	Benefits and loads beyond the system boundaries (Module D)
Resource use, minerals and metals	kg SB eq.	1.75E+00	1.38E+00	2.76E-05	1.32E-06	3.32E-01	3.90E-02	3.11E-02	3.01E-01	-6.90E-01
Resource use, fossils	MJ	2.28E+07	9.28E+05	9.79E+03	8.70E+02	2.15E+07	3.62E+05	7.55E+03	2.15E+07	-2.18E+05
Acidification	mole of H+ eq.	4.71E+03	3.24E+02	4.44E+00	2.76E-01	4.36E+03	2.40E+01	3.03E+00	4.36E+03	-8.86E+01
Eutrophication, freshwater	kg P eq.	4.05E+00	6.06E-01	2.63E-04	7.65E-04	2.24E+00	1.21E+00	2.56E-03	2.24E+00	-3.68E-02
Eutrophication marine	kg N eq.	5.69E+02	3.05E+01	2.08E+00	1.06E-01	5.31E+02	5.27E+00	5.28E-01	5.31E+02	-7.21E+00
Eutrophication, terrestrial	mol N eq.	8.93E+03	3.32E+02	2.28E+01	9.61E-01	8.53E+03	4.08E+01	3.83E+00	8.53E+03	-7.14E+01
Climate change	kg CO_2 eq.	9.02E+05	4.31E+04	7.02E+02	7.78E+01	8.52E+05	5.95E+03	3.90E+02	8.52E+05	-1.03E+04
Climate change-Biogenic	kg CO_2 eq.	1.93E+03	3.16E+02	0.00E+00	2.57E+00	1.57E+03	4.33E+01	1.27E+00	1.57E+03	-2.29E+02
Climate change-Fossil	kg CO_2 eq.	9.00E+05	4.28E+04	7.02E+02	7.52E+01	8.51E+05	5.91E+03	3.89E+02	8.50E+05	-1.00E+04
Climate change-Land use and land use change	kg CO_2 eq.	6.93E-02	6.85E-02	0.00E+00	0.00E+00	1.77E-04	6.50E-04	1.77E-04	0.00E+00	-6.09E-02
Ozone depletion	kg CFC-11 eq.	9.55E-03	5.25E-03	1.08E-06	2.25E-05	4.20E-03	6.76E-05	8.34E-05	4.12E-03	-1.24E-03
Photochemical ozone formation - human health	kg NMVOC eq.	1.81E+03	1.14E+02	5.76E+00	3.07E-01	1.67E+03	1.40E+01	1.36E+00	1.67E+03	-2.61E+01
Water use	m3 eq.	1.31E+05	2.65E+04	2.66E+00	5.96E+00	6.84E+04	3.58E+04	3.23E+03	6.51E+04	-1.82E+04

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Inventory Flow Indicators: Mandatory

Mandatory inventory flow indicators	Units	Sum	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)*	End of Life (C1-C4)	Maintenance (B2)	Operational energy use (B6)	Benefits and loads beyond the system boundaries (Module D)
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.70E+06	2.21E+04	1.31E+01	7.03E+01	5.68E+06	1.21E+03	7.74E+01	5.68E+06	-5.27E+03
Use of renewable primary energy resources used as raw material	MJ	3.46E+03	3.46E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.50E+02
Total use of renewable primary energy resources	MJ	5.71E+06	2.56E+04	1.31E+01	7.03E+01	5.68E+06	1.21E+03	7.74E+01	5.68E+06	-6.02E+03
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.28E+07	9.22E+05	9.79E+03	8.70E+02	2.15E+07	3.62E+05	7.23E+03	2.15E+07	-2.16E+05
Use of non renewable primary energy resources used as raw material	MJ	6.20E+03	5.87E+03	0.00E+00	0.00E+00	3.25E+02	0.00E+00	3.25E+02	0.00E+00	-2.16E+03
Total use of non-renewable primary energy resources	MJ	2.28E+07	9.28E+05	9.79E+03	8.70E+02	2.15E+07	3.62E+05	7.55E+03	2.15E+07	-2.18E+05
Use of secondary material	kg	1.65E+01	1.65E+01	0.00E+00	0.00E+00	1.20E-03	0.00E+00	1.20E-03	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater	m3	3.18E+03	6.18E+02	6.20E-02	1.39E-01	1.62E+03	9.47E+02	8.43E+01	1.53E+03	-4.71E+02
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	3.42E+03	9.95E+02	0.00E+00	0.00E+00	6.98E+00	0.00E+00	0.00E+00	6.98E+00	0.00E+00

Materials for energy recovery	kg	-6.74E+01	-7.67E+01	0.00E+00	0.00E+00	2.88E-01	0.00E+00	0.00E+00	8.97E+00		-4.04E+00
Exported Energy	MJ	1.92E+00	2.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Hazardous waste disposed	kg	9.81E+04	5.74E+04	0.00E+00	1.39E+00	3.74E+04	3.21E+03	1.59E+02	3.73E+04		-5.80E+04
Non hazardous waste disposed	kg	1.79E+05	3.54E+04	2.46E+01	2.31E+01	1.44E+05	2.87E+02	5.74E+01	1.44E+05		-1.39E+04
Radioactive waste disposed	kg	5.11E+01	1.81E+01	1.75E-02	7.71E-03	3.30E+01	3.49E-02	4.22E-02	3.29E+01		-9.32E+00
Biogenic carbon content of the product	kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Biogenic carbon content of the associated packaging	kg C	1.43E+01	1.43E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Environmental Impact Indicators: Optional

Mandatory environmental impact indicators	Units	Sum	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)*	End of Life (C1-C4)	Maintenance (B2)	Operational energy use (B6)		Benefits and loads beyond the system boundaries (Module D)
Ecotoxicity, freshwater	CTUe	9.23E+06	1.31E+06	4.73E+02	7.38E+02	7.65E+06	2.75E+05	6.80E+04	7.58E+06		-6.90E+05
Human toxicity, cancer	CTUh-c	7.54E-04	4.82E-04	1.23E-08	6.17E-06	1.08E-04	1.58E-04	8.59E-07	1.07E-04		-7.34E-05
Human toxicity, non-cancer	CTUh-nc	5.07E-03	1.30E-03	1.33E-06	1.25E-06	3.53E-03	2.36E-04	1.79E-05	3.51E-03		-6.03E-04
Ionising radiation, human health	kBq U235 eq.	1.49E+06	2.51E+05	1.71E+00	8.39E+00	1.23E+06	1.60E+02	1.16E+04	1.22E+06		-5.39E+04
Land use	--	2.93E+04	1.79E+03	0.00E+00	1.48E-01	2.36E+04	3.92E+03	3.52E+01	2.35E+04		-3.30E+02
EF-particulate Matter	Disease occurrence	3.75E-02	2.22E-03	3.61E-05	1.40E-06	3.51E-02	1.16E-04	1.59E-05	3.51E-02		-1.36E-03
Total Primary Energy	MJ	2.85E+07	9.54E+05	9.80E+03	9.40E+02	2.72E+07	3.63E+05	7.63E+03	2.71E+07		-2.24E+05

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

The mathematical relation between functional unit and declared unit

To calculate the impacts related to functional unit, impact of declared unit will be divided by the following factors -

Factor :

$$\frac{Declared\ Unit\ Power\ (W) * Declared\ Unit\ Lifetime\ (year)}{100\ W * 1\ year} = \boldsymbol{Factor}$$

$$= \frac{1360000\ (W) * 15\ (year)}{100\ W * 1\ year} = \mathbf{204000}$$

Environmental Impact considering for Functional Unit-Double conversion Mode

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)*	End of Life (C1-C4)	Maintenance (B2)	Operational energy use (B6)		Benefits and loads beyond the system boundaries (Module D)
Resource use, minerals and metals	kg SB eq.	8.57E-06	6.75E-06	1.35E-10	6.46E-12	1.63E-06	1.91E-07	1.53E-07	1.47E-06		-3.38E-06
Resource use, fossils	MJ	1.12E+02	4.55E+00	4.80E-02	4.26E-03	1.05E+02	1.77E+00	3.70E-02	1.05E+02		-1.07E+00
Acidification	mole of H+ eq.	2.31E-02	1.59E-03	2.18E-05	1.35E-06	2.14E-02	1.18E-04	1.49E-05	2.14E-02		-4.35E-04
Eutrophication, freshwater	kg P eq.	1.99E-05	2.97E-06	1.29E-09	3.75E-09	1.10E-05	5.91E-06	1.25E-08	1.10E-05		-1.80E-07
Eutrophication marine	kg N eq.	2.79E-03	1.50E-04	1.02E-05	5.21E-07	2.60E-03	2.58E-05	2.59E-06	2.60E-03		-3.53E-05
Eutrophication, terrestrial	mol N eq.	4.38E-02	1.63E-03	1.12E-04	4.71E-06	4.18E-02	2.00E-04	1.88E-05	4.18E-02		-3.50E-04
Climate change	kg CO_2 eq.	4.42E+00	2.11E-01	3.44E-03	3.81E-04	4.18E+00	2.92E-02	1.91E-03	4.18E+00		-5.03E-02
Climate change-Biogenic	kg CO_2 eq.	9.47E-03	1.55E-03	0.00E+00	1.26E-05	7.69E-03	2.12E-04	6.23E-06	7.69E-03		-1.12E-03
Climate change-Fossil	kg CO_2 eq.	4.41E+00	2.10E-01	3.44E-03	3.69E-04	4.17E+00	2.90E-02	1.91E-03	4.17E+00		-4.91E-02
Climate change-Land use and land use change	kg CO_2 eq.	3.40E-07	3.36E-07	0.00E+00	0.00E+00	8.65E-10	3.19E-09	8.65E-10	0.00E+00		-2.98E-07
Ozone depletion	kg CFC-11 eq.	4.68E-08	2.57E-08	5.27E-12	1.10E-10	2.06E-08	3.31E-10	4.09E-10	2.02E-08		-6.06E-09
Photochemical ozone formation - human health	kg NMVOC eq.	8.85E-03	5.57E-04	2.82E-05	1.51E-06	8.19E-03	6.88E-05	6.67E-06	8.19E-03		-1.28E-04
Water use	m3 eq.	6.41E-01	1.30E-01	1.31E-05	2.92E-05	3.35E-01	1.76E-01	1.58E-02	3.19E-01		-8.92E-02

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Inventory Flow Indicators: Mandatory

Mandatory inventory flow indicators	Units	Sum	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)*	End of Life (C1-C4)	Maintenance (B2)	Operational energy use (B6)		Benefits and loads beyond the system boundaries (Module D)
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.80E+01	1.09E-01	6.40E-05	3.45E-04	2.78E+01	5.94E-03	3.79E-04	2.78E+01		-2.58E-02
Use of renewable primary energy resources used as raw material	MJ	1.69E-02	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		-3.68E-03
Total use of renewable primary energy resources	MJ	2.80E+01	1.25E-01	6.40E-05	3.45E-04	2.78E+01	5.94E-03	3.79E-04	2.78E+01		-2.95E-02

Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.12E+02	4.52E+00	4.80E-02	4.26E-03	1.05E+02	1.77E+00	3.54E-02	1.05E+02		-1.06E+00
Use of non renewable primary energy resources used as raw material	MJ	3.04E-02	2.88E-02	0.00E+00	0.00E+00	1.59E-03	0.00E+00	1.59E-03	0.00E+00		-1.06E-02
Total use of non-renewable primary energy resources	MJ	1.12E+02	4.55E+00	4.80E-02	4.26E-03	1.05E+02	1.77E+00	3.70E-02	1.05E+02		-1.07E+00
Use of secondary material	kg	8.09E-05	8.09E-05	0.00E+00	0.00E+00	5.89E-09	0.00E+00	5.89E-09	0.00E+00		0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Use of non renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Net use of freshwater	m3	1.56E-02	3.03E-03	3.04E-07	6.81E-07	7.92E-03	4.64E-03	4.13E-04	7.50E-03		-2.31E-03
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Materials for recycling	kg	4.91E-03	4.88E-03	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	3.42E-05		0.00E+00
Materials for energy recovery	kg	-3.75E-04	-3.76E-04	0.00E+00	0.00E+00	1.41E-06	0.00E+00	0.00E+00	1.41E-06		0.00E+00
Exported Energy	MJ	1.31E-07	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Hazardous waste disposed	kg	4.81E-01	2.82E-01	0.00E+00	6.80E-06	1.83E-01	1.57E-02	7.77E-04	1.83E-01		-2.84E-01
Non hazardous waste disposed	kg	8.79E-01	1.74E-01	1.21E-04	1.13E-04	7.04E-01	1.41E-03	2.81E-04	7.04E-01		-6.81E-02
Radioactive waste disposed	kg	2.51E-04	8.86E-05	8.60E-08	3.78E-08	1.62E-04	1.71E-07	2.07E-07	1.62E-04		-4.57E-05
Biogenic carbon content of the product	kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00
Biogenic carbon content of the associated packaging	kg C	7.01E-05	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

Environmental Impact Indicators: Optional

Mandatory environmental impact indicators	Units	Sum	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)*	End of Life (C1-C4)	Maintenance (B2)	Operational energy use (B6)		Benefits and loads beyond the system boundaries (Module D)
Ecotoxicity, freshwater	CTUe	4.52E+01	6.41E+00	2.32E-03	3.62E-03	3.75E+01	1.35E+00	3.33E-01	3.72E+01		-3.38E+00
Human toxicity, cancer	CTUh-c	3.70E-09	2.36E-09	6.04E-14	3.02E-11	5.28E-10	7.75E-10	4.21E-12	5.24E-10		-3.60E-10
Human toxicity, non-cancer	CTUh-nc	2.49E-08	6.37E-09	6.52E-12	6.13E-12	1.73E-08	1.16E-09	8.77E-11	1.72E-08		-2.96E-09
Ionising radiation, human health	kBq U235 eq.	7.28E+00	1.23E+00	8.38E-06	4.11E-05	6.05E+00	7.86E-04	5.71E-02	5.99E+00		-2.64E-01
Land use	--	1.44E-01	8.75E-03	0.00E+00	7.26E-07	1.16E-01	1.92E-02	1.73E-04	1.15E-01		-1.62E-03
EF-particulate Matter	Disease occurrence	1.84E-07	1.09E-08	1.77E-10	6.87E-12	1.72E-07	5.68E-10	7.81E-11	1.72E-07		-6.68E-09
Total Primary Energy	MJ	1.40E+02	4.67E+00	4.80E-02	4.61E-03	1.33E+02	1.78E+00	3.74E-02	1.33E+02		-1.10E+00

*__Note__: B2 (Maintenance) and B6 (energy requirements during the use stage) are considered. Other sub modules in the use stage (B1, B3-B5, B7) are equal to zero. So, it is not listed in the result tables.

To evaluate the environmental impact of other product covered by this PEP, apply the following conversion factors to the Environmental Impact shown above. The extrapolation factors are calculated based on the PSR 10 section 3.6.

Conversion Factors for Manufacturing, Distribution, Installation, Use and End-of-Life Phase for declared unit environmental impacts:

Product Number / Model Description	Manufacturing	Distribution	Installation	Maintenance: B2	Use: B6	End of Life
9395XP-1360(1360)-1360-S (Reference)	1.00	1.00	1.00	1.00	1.00	1.00
9395XP-1200(1360)-1200-S	1.00	1.00	1.00	1.00	0.88	1.00
9395XP-340(1360)-1360-S	0.65	0.65	0.65	0.65	0.25	0.65
9395XP-300(1360)-1200-S	0.65	0.65	0.65	0.65	0.22	0.65
9395XP-680(1360)-1360-S	0.76	0.76	0.76	0.76	0.50	0.76
9395XP-600(1360)-1200-S	0.76	0.76	0.76	0.76	0.44	0.76
9395XP-1020(1360)-1360-S	0.88	0.88	0.88	0.88	0.75	0.88
9395XP-900(1360)-1200-S	0.88	0.88	0.88	0.88	0.66	0.88
9395XP-340(1360)-1360-L	0.69	0.69	0.69	0.69	0.25	0.69
9395XP-300(1360)-1200-L	0.69	0.69	0.69	0.69	0.22	0.69
9395XP-680(1360)-1360-L	0.81	0.81	0.81	0.81	0.50	0.81
9395XP-600(1360)-1200-L	0.81	0.81	0.81	0.81	0.44	0.81
9395XP-1020(1360)-1360-L	0.93	0.93	0.93	0.93	0.75	0.93
9395XP-900(1360)-1200-L	0.93	0.93	0.93	0.93	0.66	0.93
9395XP-1360(1360)-1360-L	1.05	1.05	1.05	1.05	1.00	1.05
9395XP-1200(1360)-1200-L	1.05	1.05	1.05	1.05	0.88	1.05
9395XP-340(1360)-1020-S	0.62	0.62	0.62	0.62	0.25	0.62
9395XP-300(1360)-900-S	0.62	0.62	0.62	0.62	0.22	0.62
9395XP-680(1360)-1020-S	0.74	0.74	0.74	0.74	0.50	0.74
9395XP-600(1360)-900-S	0.74	0.74	0.74	0.74	0.44	0.74
9395XP-1020(1360)-1020-S	0.85	0.85	0.85	0.85	0.75	0.85
9395XP-900(1360)-900-S	0.85	0.85	0.85	0.85	0.66	0.85
9395XP-340(1360)-1020-L	0.67	0.67	0.67	0.67	0.25	0.67
9395XP-300(1360)-900-L	0.67	0.67	0.67	0.67	0.22	0.67
9395XP-680(1360)-1020-L	0.78	0.78	0.78	0.78	0.50	0.78
9395XP-600(1360)-900-L	0.78	0.78	0.78	0.78	0.44	0.78
9395XP-1020(1360)-1020-L	0.90	0.90	0.90	0.90	0.75	0.90
9395XP-900(1360)-900-L	0.90	0.90	0.90	0.90	0.66	0.90

All environmental impacts are calculated for the declared unit as well as for functional unit. Above extrapolation factor needs to be multiplied to declared unit environmental impacts.

To get functional unit impacts, the declared unit results of specific part numbers need to be divided by below factors calculated as per PSR10 section 3.1.3:

Part No. /Model Description	FU factor for all stages
9395XP-1360(1360)-1360-S (Reference)	204000
9395XP-1200(1360)-1200-S	180000
9395XP-340(1360)-1360-S	51000
9395XP-300(1360)-1200-S	45000
9395XP-680(1360)-1360-S	102000
9395XP-600(1360)-1200-S	90000
9395XP-1020(1360)-1360-S	153000
9395XP-900(1360)-1200-S	135000
9395XP-340(1360)-1360-L	51000
9395XP-300(1360)-1200-L	45000
9395XP-680(1360)-1360-L	102000
9395XP-600(1360)-1200-L	90000
9395XP-1020(1360)-1360-L	153000
9395XP-900(1360)-1200-L	135000
9395XP-1360(1360)-1360-L	204000
9395XP-1200(1360)-1200-L	180000
9395XP-340(1360)-1020-S	51000
9395XP-300(1360)-900-S	45000
9395XP-680(1360)-1020-S	102000
9395XP-600(1360)-900-S	90000
9395XP-1020(1360)-1020-S	153000
9395XP-900(1360)-900-S	135000
9395XP-340(1360)-1020-L	51000
9395XP-300(1360)-900-L	45000
9395XP-680(1360)-1020-L	102000
9395XP-600(1360)-900-L	90000
9395XP-1020(1360)-1020-L	153000
9395XP-900(1360)-900-L	135000

Disclaimer

This Product Environmental Profile and its content is based on information available to us. It refers to the product at the date of issue. We make no express or implied representations or warranties with respect to the information contained herein.

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		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
Internal	X	External	
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 *The components of the present PEP may not be compared with components from any other program.*			
Document complies with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »			