Product Environmental Profile

Underfloor boxes VE, VQ and VR (non equipped)



Company information

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References covered

All dimensions and colors covered: VE09057011, VE09059005, VE09127011, VE09129005, VQ06057011, VQ06059005, VQ06127011, VQ06129005, VQ12057011, VQ12059005, VQ12127011, VQ12129005, VR06057011, VR06059005, VR06127011, VR06129005, VR10057011, VR10059005, VR10127011, VR10129005, VR12057011, VR12059005, VR12127011, VR12129005

Methodology

PEP has been performed according to the PCR version PEP–PCR–ed3-2015 04 02 and PSR version PSR-0003-ed1.1-2015 10 16 issued by the PEP ecopassport program.
For further information, please see the website of the program www.pep-ecopassport.org

Reference product

Reference product identification

Underfloor box 263x263 mm for 12 modules 45x45 for flooring 5mm, steel, grey, non-equipped (VQ12057011)

PSR product Category :

Floor boxes

Functional unit

Connect a workstation remote from the wall to the energy and communication networks for 20 years, via 12 x 2P (width 45mm) or 24 x RJ45 connectors (width 22,5 mm).

The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Others		
	g	%		g	%		g	%
PA6	397.65	19.6%	Steel	1423.90	70.3%	Cardboard + Paper	206.62	10.2%
Other	0.60	<0.1%				Other	0.52	<0.1%
Total mass of reference product :			**2026.13 g**					

Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

Distribution

The packaging has been designed in accordance with current regulations. In particular, the European directive 94/62/CE relative to packaging and packaging waste.
The used packaging is 100% recyclable or recoverable.
Packaging and logistic flows are continuously improved in order to reduce their impact.

Installation

Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

Installation elements (non delivered with the product)

Elements non delivered with the product and needed to install the product are not considered.

Use

For the considered scenario, the product has no energy consumption.

Energy model of the use phase :

None

Consumables and maintenance :

None

End of life

Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes, the standard scenario set in the PCR is considered.

The recycling potential of the product is: 73%. The calculation of this rate is based on the method of the IEC/TR 62635.

Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), use (U) and end of life (EoL).

All calculations are done with EIME software version 5.9.3 with the database version CODDE-2022-01 .

PEP representative of the covered products marketed in: Europe

Energy models considered for each phase

Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL
Europe	-	Europe	-	Europe

Environmental impact indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Global Warming	kg CO_2 eq.	1.38E+01	3.53E-01	1.27E-02	0.00E+00	1.39E-01	1.43E+01
Ozone Depletion	kg CFC-11 eq.	1.18E-07	7.15E-10	8.64E-11	0.00E+00	1.81E-09	1.20E-07
Acidification of soil and water	kg SO2 eq	4.27E-02	1.59E-03	6.21E-05	0.00E+00	5.69E-04	4.49E-02
Eutrophication	kg PO_4^{3-} eq.	6.79E-03	3.64E-04	6.70E-05	0.00E+00	8.56E-04	8.08E-03
Photochemical Ozone Creation	kg C_2H_4 eq.	4.50E-03	1.13E-04	4.38E-06	0.00E+00	4.32E-05	4.66E-03
Depletion of abiotic resources - elements	kg Sb eq	1.34E-04	1.41E-08	5.50E-10	0.00E+00	6.92E-09	1.35E-04
Depletion of abiotic resources – fossil fuels	MJ	1.20E+02	4.96E+00	1.69E-01	0.00E+00	1.58E+00	1.26E+02
Water Pollution	m^3	2.33E+02	5.80E+01	1.96E+00	0.00E+00	1.85E+01	3.11E+02
Air Pollution	m^3	1.42E+03	1.45E+01	1.60E+00	0.00E+00	1.08E+01	1.44E+03

Resource use indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	8.25E+00	6.65E-03	1.99E-03	0.00E+00	1.92E-02	8.28E+00
Use of renewable primary energy resources as raw materials	MJ	9.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-02
Total use of renewable primary energy resources	MJ	8.34E+00	6.65E-03	1.99E-03	0.00E+00	1.92E-02	8.37E+00
Use of non-renewable primary energy, excluding non renewable primary energy resources used as raw materials	MJ	5.30E+02	4.98E+00	1.72E-01	0.00E+00	1.65E+00	5.37E+02
Use of non-renewable primary energy resources as raw materials	MJ	1.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E+01
Total use of non renewable primary energy resources	MJ	5.44E+02	4.98E+00	1.72E-01	0.00E+00	1.65E+00	5.51E+02
Total use of primary energy	MJ	5.53E+02	4.99E+00	1.74E-01	0.00E+00	1.67E+00	5.59E+02
Use of secondary materials	kg	1.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+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
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
Net fresh water use	m^3	3.23E+00	3.16E-05	3.96E-06	0.00E+00	6.54E-05	3.23E+00

Waste category indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Hazardous waste disposed	kg	6.10E+00	1.25E-02	2.10E-01	0.00E+00	1.89E+00	8.21E+00
Non-hazardous waste disposed	kg	4.52E-02	0.00E+00	4.63E-05	0.00E+00	2.89E-04	4.56E-02
Radioactive waste disposed	kg	2.52E-03	8.93E-06	1.08E-06	0.00E+00	2.26E-05	2.55E-03

Output flow indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

The environmental impact of a system covered by the PEP Ecopassport® other than the reference system for which it was drawn up can be calculated by multiplying the values of the environmental indicators by the corresponding factor.

Reference		VE09057011	VE09059005	VE09127011	VE09129005	VQ06057011	VQ06059005	VQ06127011	VQ06129005	VQ12057011*	VQ12059005	VQ12127011	VQ12129005
Type of wiring	Nr. of 2P (45mm width)	9	9	9	9	6	6	6	6	12	12	12	12
	[OR] Nr. of RJ45 (Width 22.5mm)	18	18	18	18	12	12	12	12	24	24	24	24
Factor		0.84	0.85	0.88	0.89	0.58	0.58	0.59	0.59	1	1.02	1.02	1.04

Reference		VR06057011	VR06059005	VR06127011	VR06129005	VR10057011	VR10059005	VR10127011	VR10129005	VR12057011	VR12059005	VR12127011	VR12129005
Type of wiring	Nr. of 2P (45mm width)	6	6	6	6	10	10	10	10	12	12	12	12
	[OR] Nr. of RJ45 (Width 22.5mm)	12	12	12	12	20	20	20	20	24	24	24	24
Factor		0.55	0.54	0.56	0.56	0.92	0.92	0.96	0.94	1.31	1.31	1.35	1.35

*Reference product

Verification

Registration N°: HAGE-00686-V01.01-EN	Drafting Rules PEP–PCR–ed3-2015 04 02 Supplemented by PSR-0003-ed1.1-2015 10 16
Verifier accreditation N°: VH35	Information and reference documents: www.pep-ecopassport.org
Date of issue: 5-2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ● External ○	
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 »	

Nota :

The picture has no contractual value.

All numerical values indicated in this document may vary and depend of many factors such as the tolerance related to materials, the usage and environment conditions of the products, installation characteristics ... , real values for a product in a concrete application may therefore change.

The usage time mentioned in this document is an average duration chosen for the need of the calculations. This value cannot be assimilated to the minimum, average or real life time.

The responsibility of the company, issuing this document, can never be engaged if differences would be noticed between the values given by this document and real ones, whatever the causes and/or consequences would be.