

	Product Environmental Profile	
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Eaton product	CAP187204 (Brass Cable Gland)
Description of the product	<p>Nickel-plated brass is used extensively throughout the oil and gas and petrochemical industries as well as traditional industrial applications because it provides superior protection against corrosion and contamination under severe conditions and in the most extreme environments over equivalent natural brass products.</p> <p>It is designed for strict adherence to global specifications meeting North American and international codes and standards and regional certifications.</p> <p>The CAP187204 Cable Gland is suitable for non armoured and braided cables (EMC Application). Temperature range: -20 °C to +80 °C</p>
Homogeneous Environmental Families Covered	The PEP covers Cable Glands of various sizes ranges cable diameters 3.0mm to 53mm.
Functional unit	To protect the wiring and cables at entrance conduit of electrical or electronics product, against extreme temperature, potentially hazardous environment and to protect the products from ingress of water and dust for lifetime for 20 years. Product shall conform to EN 62444 standard.
Company information	COOPER CAPRI SAS 36-40 Rue des Fontenils, 41600 Nouan-le-Fuzelier, France Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	3.89E+01g (One Cable Gland with unit packaging)		
Category PEP Material	Materials	Mass (g)	Percentage (%)
Metal	Copper	2.43E+01	62.49%
Metal	Zinc	1.04E+01	26.78%
Metal	Nickel	1.40E+00	3.60%
Plastic	Rubber	1.12E+00	2.87%
Other	Cornugated Cardboard	9.10E-01	2.34%
Plastic	Nylon 66	5.32E-01	1.37%
Plastic	Rubber	1.87E-01	<0.1%
Plastic	Polyethylene	2.30E-02	<0.1%
Other	Paper	3.33E-03	<0.1%
Other	Glue	4.10E-04	<0.1%
Metal	Silicon	2.56E-04	<0.1%
Total		3.89E+01	100%

Substance Assessment

The representative product is compliant with the EU-RoHS Directive (2011/65/EU) by application of exemptions and the product contains lead (Pb) which is listed as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).

Additional Environmental Information

Manufacturing	The reference product is assembled at Eaton plant holding management system certifications according to ISO9001 & 14001 standards.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	Product needs standard tools which do not require any additional energy source and no waste other than the obsolete product packaging is generated during this step.
Use	The reference product CAP187204 used across France and across the Europe. Product do not consume any energy or resources during useful life.
End of life	Recyclability of product is equal to 68.3% based on the method described in IEC/TR 62635, Edition 1.0/2012-10 "Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment".

Environmental Impacts

The calculation of environmental impacts is the result of a Product Life Cycle Analysis in accordance with ISO 14040/44, covering the entire product lifecycle, i.e. "from 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 v5.9.3 with database version CODDE-2022-01.

Manufacturing Phase	Eaton, COOPER CAPRI SAS Energy modelled used: France
Distribution Phase	Distribution of the product in its packaging from the manufacturer's last logistics platform to the installation place is considered and distributed in two locations - 90% in France (660km by Road) and rest of the Europe (3500km by Road).
Installation Phase	Product installed in two locations - France and rest of Europe. Only treatment of packaging waste is considered in this phase. Energy model used: Europe
Use Phase	<u>Reference lifetime:</u> 20 Years (assumed) <u>Energy model used:</u> France & Europe <u>Usage profile:</u> No energy consumption in use phase of the product. Product do not need any maintenance.
End of life Phase	Product used in Europe has followed WEEE directive for disposal and other regions disposal method considered as Landfill. <u>Energy model used:</u> Europe

Mandatory Environmental Impact Indicators

Phases	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Global warming (GWP100)	kg.CO ₂ equivalent	7.02E-01	6.97E-01	2.33E-03	1.11E-04	0.00E+00	2.27E-03
Ozone depletion potential (ODP)	kg.CFC-11 equivalent	1.87E-07	1.87E-07	4.72E-12	4.40E-13	0.00E+00	7.94E-12
Acidification of soil and water	kg.SO ₂ equivalent	1.03E-03	1.01E-03	1.05E-05	9.81E-08	0.00E+00	9.99E-06
Water eutrophication (EP)	kg.PO ₄ ³⁻ equivalent.	3.18E-04	3.08E-04	2.40E-06	1.09E-07	0.00E+00	6.97E-06
Photochemical Ozone formation (POCP)	kg. C ₂ H ₄ equivalent.	1.03E-04	1.01E-04	7.43E-07	2.57E-08	0.00E+00	7.22E-07
Abiotic depletion (elements) (ADPe)	kg.Sb equivalent	1.69E-04	1.69E-04	9.32E-11	1.10E-12	0.00E+00	9.22E-11
Abiotic depletion (fossil fuels) (ADPf)	MJ	7.33E+00	7.27E+00	3.27E-02	1.81E-04	0.00E+00	3.05E-02
Water pollution (WP)	m ³	3.76E+01	3.69E+01	3.83E-01	7.35E-03	0.00E+00	3.56E-01
Air pollution (AP)	m ³	9.00E+02	9.00E+02	9.54E-02	3.47E-03	0.00E+00	1.05E-01

Additional Inventory Flow Indicators

Phases	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	4.80E-01	4.80E-01	4.39E-05	3.88E-06	0.00E+00	7.92E-05
Use of renewable primary energy resources used as raw materials	MJ	2.34E-02	2.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	5.04E-01	5.03E-01	4.39E-05	3.88E-06	0.00E+00	7.92E-05
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	1.08E+01	1.07E+01	3.29E-02	2.00E-04	0.00E+00	3.07E-02
Use of non-renewable primary energy resources used as raw materials	MJ	8.62E-02	8.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.09E+01	1.08E+01	3.29E-02	2.00E-04	0.00E+00	3.07E-02
Use of secondary materials	kg	1.83E-02	1.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m ³	1.53E-01	1.53E-01	2.08E-07	1.75E-07	0.00E+00	3.30E-07
Hazardous waste disposed of	kg	1.29E+01	1.29E+01	0.00E+00	7.69E-08	0.00E+00	6.50E-07
Non-hazardous waste disposed of	kg	1.08E-01	9.60E-02	8.27E-05	1.96E-04	0.00E+00	1.21E-02
Radioactive waste disposed of	kg	2.01E-04	2.01E-04	5.89E-08	4.55E-09	0.00E+00	9.91E-08
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	1.64E-01	1.37E-01	0.00E+00	7.32E-04	0.00E+00	2.59E-02
Materials for energy recovery	kg	1.83E-04	3.12E-05	0.00E+00	0.00E+00	0.00E+00	1.52E-04
Exported energy	MJ by energy vector	6.65E-05	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	MJ	1.14E+01	1.13E+01	3.29E-02	2.04E-04	0.00E+00	3.08E-02

For manufacturing and End of life, impacts for other products covered in homogeneous family varies with respect to changes in material weight of individual component. However, impacts for Distribution and Installation are proportion to the weight of the product. No impacts during use phase.

To evaluate the environmental impact of other product covered by this PEP, multiply the impact figures by –

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
CAP186074	Manufacturing	0.42	0.42	0.43	0.43	0.43	0.42	0.41	0.40	0.42
	Distribution	0.38								
	Installation	0.38								
	Use	0								
	End of Life	0.74	0.82	0.74	0.90	0.73	0.53	0.72	0.73	0.76
CAP186094	Manufacturing	0.65	0.65	0.66	0.65	0.66	0.65	0.64	0.64	0.65
	Distribution	0.63								
	Installation	0.63								
	Use	0								
	End of Life	0.84	0.89	0.84	0.94	0.84	0.72	0.83	0.84	0.86
CAP186114	Manufacturing	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Distribution	0.89								
	Installation	0.89								
	Use	0								
	End of Life	0.95	0.97	0.96	0.98	0.95	0.92	0.95	0.95	0.96
CAP186134	Manufacturing	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
	Distribution	1.03								
	Installation	1.03								
	Use	0								
	End of Life	1.01	1.01	1.01	1.00	1.01	1.02	1.01	1.01	1.01
CAP186174	Manufacturing	1.41	1.42	1.41	1.41	1.41	1.42	1.42	1.43	1.41
	Distribution	1.44								
	Installation	1.44								
	Use	0								
	End of Life	1.19	1.13	1.19	1.07	1.20	1.34	1.20	1.19	1.17
CAP186184	Manufacturing	2.18	2.18	2.15	2.17	2.17	2.18	2.21	2.22	2.18
	Distribution	2.25								
	Installation	2.25								
	Use	0								
	End of Life	1.53	1.36	1.53	1.21	1.56	1.96	1.57	1.54	1.48
CAP186194	Manufacturing	1.54	1.55	1.53	1.54	1.54	1.55	1.56	1.56	1.54
	Distribution	1.58								
	Installation	1.58								
	Use	0								
	End of Life	1.24	1.17	1.24	1.10	1.26	1.44	1.26	1.25	1.22
CAP186284	Manufacturing	2.46	2.46	2.43	2.45	2.44	2.46	2.49	2.51	2.45
	Distribution	2.55								
	Installation	2.55								

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Use	0								
	End of Life	1.65	1.44	1.65	1.26	1.69	2.18	1.71	1.67	1.59
CAP186294	Manufacturing	3.36	3.36	3.31	3.34	3.33	3.36	3.41	3.44	3.35
	Distribution	3.51								
	Installation	3.51								
	Use	0								
	End of Life	2.06	1.72	2.05	1.42	2.12	2.91	2.15	2.09	1.96
CAP186364	Manufacturing	5.27	5.27	5.17	5.24	5.22	5.27	5.36	5.42	5.25
	Distribution	5.54								
	Installation	5.54								
	Use	0								
	End of Life	2.91	2.30	2.90	1.76	3.02	4.46	3.07	2.97	2.73
CAP186484	Manufacturing	10.70	10.71	10.49	10.63	10.60	10.71	10.92	11.05	10.67
	Distribution	11.32								
	Installation	11.32								
	Use	0								
	End of Life	5.35	3.95	5.33	2.72	5.59	8.87	5.71	5.48	4.94
CAP186494	Manufacturing	10.69	10.71	10.48	10.63	10.59	10.71	10.92	11.04	10.66
	Distribution	11.31								
	Installation	11.31								
	Use	0								
	End of Life	5.35	3.95	5.32	2.72	5.59	8.86	5.71	5.48	4.94
CAP187124	Manufacturing	0.40	0.40	0.41	0.40	0.41	0.40	0.39	0.38	0.40
	Distribution	0.36								
	Installation	0.36								
	Use	0								
	End of Life	0.73	0.82	0.73	0.89	0.72	0.51	0.71	0.72	0.76
CAP187164	Manufacturing	0.66	0.66	0.67	0.66	0.66	0.66	0.65	0.65	0.66
	Distribution	0.64								
	Installation	0.64								
	Use	0								
	End of Life	0.85	0.90	0.85	0.94	0.84	0.72	0.83	0.84	0.86
CAP187204	Manufacturing	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Distribution	1.00								
	Installation	1.00								
	Use	0								
	End of Life	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAP187254	Manufacturing	1.41	1.41	1.40	1.40	1.40	1.41	1.42	1.42	1.41
	Distribution	1.43								
	Installation	1.43								
	Use	0								
	End of Life	1.18	1.12	1.18	1.07	1.19	1.33	1.20	1.19	1.17
CAP187324	Manufacturing	2.27	2.27	2.24	2.26	2.26	2.27	2.30	2.31	2.26
	Distribution	2.35								

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Installation	2.35								
	Use	0								
	End of Life	1.57	1.39	1.57	1.23	1.60	2.03	1.62	1.59	1.52
CAP187404	Manufacturing	3.41	3.41	3.36	3.39	3.39	3.41	3.47	3.50	3.40
	Distribution	3.57								
	Installation	3.57								
	Use	0								
	End of Life	2.08	1.73	2.08	1.43	2.14	2.96	2.17	2.11	1.98
CAP187504	Manufacturing	5.34	5.35	5.25	5.31	5.30	5.35	5.44	5.50	5.33
	Distribution	5.62								
	Installation	5.62								
	Use	0								
	End of Life	2.95	2.32	2.94	1.77	3.05	4.52	3.11	3.00	2.76
CAP187544	Manufacturing	0.48	0.48	0.49	0.48	0.49	0.48	0.47	0.46	0.48
	Distribution	0.45								
	Installation	0.45								
	Use	0								
	End of Life	0.77	0.84	0.77	0.91	0.75	0.58	0.75	0.76	0.79
CAP187554	Manufacturing	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.77
	Distribution	0.75								
	Installation	0.75								
	Use	0								
	End of Life	0.90	0.93	0.90	0.96	0.89	0.81	0.89	0.89	0.91
CAP187564	Manufacturing	1.22	1.22	1.21	1.22	1.21	1.22	1.22	1.22	1.22
	Distribution	1.23								
	Installation	1.23								
	Use	0								
	End of Life	1.10	1.07	1.10	1.04	1.10	1.18	1.11	1.10	1.09
CAP187574	Manufacturing	1.88	1.88	1.86	1.88	1.87	1.88	1.90	1.91	1.88
	Distribution	1.94								
	Installation	1.94								
	Use	0								
	End of Life	1.40	1.27	1.39	1.16	1.42	1.72	1.43	1.41	1.36
CAP187584	Manufacturing	2.89	2.89	2.85	2.88	2.87	2.89	2.93	2.96	2.88
	Distribution	3.01								
	Installation	3.01								
	Use	0								
	End of Life	1.85	1.58	1.84	1.34	1.89	2.53	1.92	1.87	1.77
CAP187594	Manufacturing	4.61	4.62	4.54	4.59	4.58	4.62	4.70	4.74	4.60
	Distribution	4.84								
	Installation	4.84								
	Use	0								
	End of Life	2.62	2.10	2.61	1.64	2.71	3.93	2.76	2.67	2.47
CAP187604	Manufacturing	7.45	7.46	7.31	7.41	7.39	7.46	7.60	7.69	7.43

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP	
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³	
	Distribution	7.87									
	Installation	7.87									
	Use	0									
	End of Life	3.89	2.97	3.88	2.15	4.06	6.23	4.14	3.98	3.62	
CAP187634	Manufacturing	10.66	10.67	10.45	10.59	10.56	10.67	10.88	11.01	10.63	
	Distribution	11.28									
	Installation	11.28									
	Use	0									
	End of Life	5.33	3.94	5.31	2.72	5.57	8.83	5.70	5.46	4.93	
	CAP189124	Manufacturing	0.42	0.42	0.43	0.43	0.43	0.42	0.41	0.40	0.42
		Distribution	0.39								
		Installation	0.39								
Use		0									
	End of Life	0.74	0.82	0.74	0.90	0.73	0.53	0.72	0.73	0.77	
	CAP189164	Manufacturing	0.68	0.68	0.69	0.68	0.68	0.68	0.67	0.67	0.68
		Distribution	0.66								
		Installation	0.66								
Use		0									
	End of Life	0.86	0.90	0.86	0.94	0.85	0.74	0.85	0.85	0.87	
	CAP189204	Manufacturing	1.07	1.07	1.06	1.07	1.06	1.07	1.07	1.07	1.07
		Distribution	1.07								
		Installation	1.07								
Use		0									
	End of Life	1.03	1.02	1.03	1.01	1.03	1.05	1.03	1.03	1.03	
	CAP189254	Manufacturing	1.44	1.44	1.43	1.44	1.44	1.44	1.45	1.46	1.44
		Distribution	1.47								
		Installation	1.47								
Use		0									
	End of Life	1.20	1.14	1.20	1.08	1.21	1.36	1.22	1.21	1.18	
	CAP189324	Manufacturing	2.29	2.29	2.26	2.28	2.28	2.29	2.32	2.34	2.29
		Distribution	2.37								
		Installation	2.37								
Use		0									
	End of Life	1.58	1.39	1.58	1.23	1.61	2.05	1.63	1.60	1.52	
	CAP189404	Manufacturing	3.45	3.45	3.39	3.43	3.42	3.45	3.50	3.53	3.44
		Distribution	3.60								
		Installation	3.60								
Use		0									
	End of Life	2.10	1.75	2.09	1.43	2.16	2.98	2.19	2.13	1.99	
	CAP189504	Manufacturing	5.43	5.44	5.34	5.40	5.39	5.44	5.54	5.59	5.42
		Distribution	5.72								
		Installation	5.72								
Use		0									
	End of Life	2.99	2.35	2.98	1.79	3.10	4.60	3.16	3.05	2.80	

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
CAP189544	Manufacturing	0.50	0.50	0.51	0.51	0.51	0.50	0.49	0.49	0.51
	Distribution	0.47								
	Installation	0.47								
	Use	0								
	End of Life	0.78	0.85	0.78	0.91	0.77	0.60	0.76	0.77	0.80
CAP189554	Manufacturing	0.79	0.79	0.80	0.79	0.79	0.79	0.79	0.78	0.79
	Distribution	0.78								
	Installation	0.78								
	Use	0								
	End of Life	0.91	0.94	0.91	0.96	0.90	0.83	0.90	0.90	0.92
CAP189564	Manufacturing	1.28	1.28	1.28	1.28	1.28	1.28	1.29	1.29	1.28
	Distribution	1.30								
	Installation	1.30								
	Use	0								
	End of Life	1.13	1.09	1.13	1.05	1.13	1.23	1.14	1.13	1.11
CAP189574	Manufacturing	1.90	1.91	1.89	1.90	1.90	1.91	1.93	1.94	1.90
	Distribution	1.96								
	Installation	1.96								
	Use	0								
	End of Life	1.41	1.28	1.40	1.16	1.43	1.73	1.44	1.42	1.37
CAP189584	Manufacturing	2.88	2.89	2.84	2.87	2.87	2.89	2.93	2.95	2.88
	Distribution	3.00								
	Installation	3.00								
	Use	0								
	End of Life	1.85	1.57	1.84	1.33	1.89	2.53	1.92	1.87	1.77
CAP189594	Manufacturing	4.60	4.61	4.52	4.58	4.57	4.61	4.69	4.73	4.59
	Distribution	4.83								
	Installation	4.83								
	Use	0								
	End of Life	2.62	2.10	2.61	1.64	2.71	3.92	2.75	2.66	2.46
CAP189604	Manufacturing	7.43	7.44	7.29	7.39	7.36	7.44	7.58	7.66	7.41
	Distribution	7.84								
	Installation	7.84								
	Use	0								
	End of Life	3.88	2.96	3.87	2.14	4.04	6.21	4.13	3.97	3.61
CAP189634	Manufacturing	10.82	10.84	10.61	10.76	10.72	10.84	11.05	11.18	10.79
	Distribution	11.45								
	Installation	11.45								
	Use	0								
	End of Life	5.41	3.99	5.38	2.75	5.65	8.97	5.78	5.54	4.99
CAP169074	Manufacturing	0.45	0.45	0.46	0.45	0.45	0.45	0.43	0.43	0.45
	Distribution	0.41								
	Installation	0.41								
	Use	0								

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	End of Life	0.75	0.83	0.75	0.90	0.74	0.55	0.73	0.74	0.77
CAP169094	Manufacturing	0.69	0.69	0.69	0.69	0.69	0.69	0.68	0.67	0.69
	Distribution	0.67								
	Installation	0.67								
	Use	0								
	End of Life	0.86	0.90	0.86	0.94	0.85	0.75	0.85	0.85	0.87
CAP169114	Manufacturing	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
	Distribution	0.99								
	Installation	0.99								
	Use	0								
	End of Life	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAP169134	Manufacturing	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
	Distribution	1.13								
	Installation	1.13								
	Use	0								
	End of Life	1.05	1.04	1.05	1.02	1.06	1.10	1.06	1.05	1.05
CAP169164	Manufacturing	1.47	1.47	1.46	1.47	1.47	1.47	1.48	1.49	1.47
	Distribution	1.50								
	Installation	1.50								
	Use	0								
	End of Life	1.21	1.14	1.21	1.08	1.22	1.38	1.23	1.22	1.19
CAP169194	Manufacturing	1.57	1.57	1.56	1.56	1.56	1.57	1.58	1.59	1.57
	Distribution	1.60								
	Installation	1.60								
	Use	0								
	End of Life	1.25	1.17	1.25	1.10	1.27	1.46	1.28	1.26	1.23
CAP169214	Manufacturing	2.20	2.20	2.18	2.19	2.19	2.20	2.23	2.25	2.20
	Distribution	2.28								
	Installation	2.28								
	Use	0								
	End of Life	1.54	1.37	1.54	1.21	1.57	1.98	1.58	1.56	1.49
CAP169284	Manufacturing	2.48	2.48	2.45	2.47	2.47	2.48	2.52	2.53	2.48
	Distribution	2.58								
	Installation	2.58								
	Use	0								
	End of Life	1.66	1.45	1.66	1.26	1.70	2.20	1.72	1.68	1.60
CAP169294	Manufacturing	3.38	3.38	3.33	3.36	3.36	3.38	3.44	3.47	3.37
	Distribution	3.53								
	Installation	3.53								
	Use	0								
	End of Life	2.07	1.72	2.06	1.42	2.13	2.93	2.16	2.10	1.97
CAP169364	Manufacturing	5.43	5.44	5.33	5.40	5.39	5.44	5.53	5.59	5.42
	Distribution	5.71								
	Installation	5.71								

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Use	0								
	End of Life	2.99	2.35	2.98	1.79	3.10	4.59	3.15	3.05	2.80
CAP169484	Manufacturing	10.72	10.74	10.51	10.66	10.62	10.74	10.95	11.07	10.69
	Distribution	11.34								
	Installation	11.34								
	Use	0								
	End of Life	5.36	3.96	5.34	2.73	5.60	8.89	5.73	5.49	4.95
CAP169494	Manufacturing	10.86	10.87	10.65	10.79	10.76	10.87	11.09	11.21	10.83
	Distribution	11.49								
	Installation	11.49								
	Use	0								
	End of Life	5.42	4.00	5.40	2.75	5.67	8.99	5.79	5.55	5.01
CAP187424	Manufacturing	0.69	0.69	0.70	0.69	0.69	0.69	0.68	0.68	0.69
	Distribution	0.67								
	Installation	0.67								
	Use	0								
	End of Life	0.86	0.91	0.86	0.95	0.85	0.75	0.85	0.86	0.87
CAP187524	Manufacturing	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
	Distribution	1.07								
	Installation	1.07								
	Use	0								
	End of Life	1.03	1.02	1.03	1.01	1.03	1.06	1.03	1.03	1.03
CAP187534	Manufacturing	1.07	1.07	1.06	1.07	1.06	1.07	1.07	1.07	1.07
	Distribution	1.07								
	Installation	1.07								
	Use	0								
	End of Life	1.03	1.02	1.03	1.01	1.03	1.05	1.03	1.03	1.03
CAP187624	Manufacturing	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.06
	Distribution	1.07								
	Installation	1.07								
	Use	0								
	End of Life	1.03	1.02	1.03	1.01	1.03	1.05	1.03	1.03	1.03
CAP187734	Manufacturing	1.47	1.47	1.46	1.47	1.46	1.47	1.48	1.49	1.47
	Distribution	1.50								
	Installation	1.50								
	Use	0								
	End of Life	1.21	1.14	1.21	1.08	1.22	1.38	1.23	1.22	1.19
CAP187744	Manufacturing	2.40	2.41	2.37	2.39	2.39	2.41	2.44	2.45	2.40
	Distribution	2.49								
	Installation	2.49								
	Use	0								
	End of Life	1.63	1.43	1.63	1.25	1.66	2.14	1.68	1.65	1.57
CAP187764	Manufacturing	3.68	3.69	3.62	3.66	3.65	3.69	3.74	3.78	3.67
	Distribution	3.85								

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Installation	3.85								
	Use	0								
	End of Life	2.20	1.82	2.20	1.48	2.27	3.17	2.30	2.24	2.09
CAP187814	Manufacturing	2.42	2.42	2.39	2.41	2.41	2.42	2.45	2.47	2.42
	Distribution	2.51								
	Installation	2.51								
	Use	0								
	End of Life	1.64	1.43	1.63	1.25	1.67	2.15	1.69	1.66	1.58
CAP187824	Manufacturing	1.51	1.51	1.50	1.51	1.51	1.51	1.52	1.53	1.51
	Distribution	1.55								
	Installation	1.55								
	Use	0								
	End of Life	1.23	1.16	1.23	1.09	1.24	1.42	1.25	1.24	1.21
CAP187834	Manufacturing	3.82	3.83	3.76	3.80	3.80	3.83	3.89	3.93	3.82
	Distribution	4.00								
	Installation	4.00								
	Use	0								
	End of Life	2.27	1.86	2.26	1.50	2.34	3.29	2.37	2.30	2.15
CAP187134	Manufacturing	1.52	1.52	1.51	1.51	1.51	1.52	1.53	1.54	1.52
	Distribution	1.55								
	Installation	1.55								
	Use	0								
	End of Life	1.23	1.16	1.23	1.09	1.24	1.42	1.25	1.24	1.21
CAP187184	Manufacturing	2.41	2.41	2.38	2.40	2.40	2.41	2.44	2.46	2.41
	Distribution	2.50								
	Installation	2.50								
	Use	0								
	End of Life	1.63	1.43	1.63	1.25	1.67	2.14	1.69	1.65	1.57
CAP187224	Manufacturing	3.78	3.78	3.72	3.76	3.75	3.78	3.84	3.88	3.77
	Distribution	3.96								
	Installation	3.96								
	Use	0								
	End of Life	2.25	1.85	2.24	1.49	2.32	3.25	2.35	2.28	2.13
CAP187274	Manufacturing	3.77	3.78	3.71	3.75	3.74	3.78	3.84	3.87	3.76
	Distribution	3.95								
	Installation	3.95								
	Use	0								
	End of Life	2.24	1.84	2.24	1.49	2.31	3.25	2.35	2.28	2.13
CAP187304	Manufacturing	5.94	5.95	5.84	5.91	5.89	5.95	6.06	6.12	5.93
	Distribution	6.26								
	Installation	6.26								
	Use	0								
	End of Life	3.22	2.50	3.20	1.88	3.34	5.01	3.40	3.28	3.01
CAP187314	Manufacturing	6.24	6.25	6.13	6.20	6.18	6.25	6.36	6.43	6.22

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Distribution	6.57								
	Installation	6.57								
	Use	0								
	End of Life	3.35	2.60	3.34	1.93	3.48	5.25	3.55	3.42	3.13
CAP187354	Manufacturing	5.92	5.92	5.81	5.88	5.87	5.92	6.03	6.09	5.90
	Distribution	6.23								
	Installation	6.23								
	Use	0								
CAP187374	End of Life	3.21	2.50	3.19	1.87	3.33	4.99	3.39	3.27	3.00
	Manufacturing	5.76	5.77	5.66	5.73	5.71	5.77	5.87	5.93	5.75
	Distribution	6.07								
	Installation	6.07								
CAP187384	Use	0								
	End of Life	3.14	2.45	3.12	1.85	3.25	4.86	3.31	3.20	2.94
	Manufacturing	10.95	10.97	10.74	10.88	10.85	10.97	11.18	11.31	10.92
	Distribution	11.59								
CAP187414	Installation	11.59								
	Use	0								
	End of Life	5.46	4.03	5.44	2.77	5.71	9.07	5.84	5.60	5.04
	Manufacturing	11.75	11.76	11.51	11.67	11.64	11.76	11.99	12.13	11.71
CAP187444	Distribution	12.43								
	Installation	12.43								
	Use	0								
	End of Life	5.82	4.27	5.79	2.91	6.09	9.72	6.22	5.96	5.37
CAP187122	Manufacturing	11.68	11.70	11.45	11.61	11.57	11.70	11.93	12.07	11.65
	Distribution	12.37								
	Installation	12.37								
	Use	0								
CAP187162	End of Life	5.79	4.25	5.76	2.90	6.06	9.67	6.19	5.94	5.34
	Manufacturing	0.49	0.49	0.50	0.49	0.50	0.49	0.48	0.47	0.49
	Distribution	0.46								
	Installation	0.46								
CAP187202	Use	0								
	End of Life	0.77	0.84	0.77	0.91	0.76	0.59	0.75	0.76	0.79
	Manufacturing	0.66	0.66	0.67	0.66	0.66	0.66	0.65	0.65	0.66
	Distribution	0.64								
CAP187202	Installation	0.64								
	Use	0								
	End of Life	0.85	0.90	0.85	0.94	0.84	0.73	0.84	0.84	0.86
	Manufacturing	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.20	1.19
CAP187202	Distribution	1.20								
	Installation	1.20								
	Use	0								
	End of Life	1.09	1.06	1.08	1.03	1.09	1.15	1.09	1.09	1.08

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
CAP187252	Manufacturing	1.62	1.63	1.61	1.62	1.62	1.63	1.64	1.65	1.62
	Distribution	1.66								
	Installation	1.66								
	Use	0								
	End of Life	1.28	1.19	1.28	1.11	1.30	1.51	1.30	1.29	1.25
CAP187322	Manufacturing	2.53	2.53	2.50	2.52	2.51	2.53	2.56	2.58	2.52
	Distribution	2.63								
	Installation	2.63								
	Use	0								
	End of Life	1.69	1.47	1.68	1.27	1.72	2.24	1.74	1.71	1.62
CAP187402	Manufacturing	3.77	3.77	3.71	3.75	3.74	3.77	3.83	3.87	3.76
	Distribution	3.95								
	Installation	3.95								
	Use	0								
	End of Life	2.24	1.84	2.24	1.49	2.31	3.25	2.35	2.28	2.13
CAP187502	Manufacturing	5.85	5.85	5.74	5.81	5.80	5.85	5.96	6.02	5.83
	Distribution	6.16								
	Installation	6.16								
	Use	0								
	End of Life	3.17	2.48	3.16	1.86	3.29	4.93	3.36	3.24	2.97
CAP187632	Manufacturing	11.16	11.17	10.94	11.09	11.05	11.17	11.39	11.52	11.12
	Distribution	11.80								
	Installation	11.80								
	Use	0								
	End of Life	5.56	4.09	5.53	2.80	5.81	9.24	5.94	5.69	5.13
CAP192124V1	Manufacturing	0.43	0.43	0.44	0.43	0.43	0.43	0.41	0.41	0.43
	Distribution	0.39								
	Installation	0.39								
	Use	0								
	End of Life	0.74	0.83	0.74	0.90	0.73	0.53	0.72	0.74	0.77
CAP192154V1	Manufacturing	0.51	0.51	0.52	0.51	0.51	0.51	0.50	0.49	0.51
	Distribution	0.48								
	Installation	0.48								
	Use	0								
	End of Life	0.78	0.85	0.78	0.91	0.77	0.60	0.76	0.77	0.80
CAP192164V1	Manufacturing	0.74	0.74	0.75	0.75	0.75	0.74	0.74	0.73	0.74
	Distribution	0.73								
	Installation	0.73								
	Use	0								
	End of Life	0.88	0.92	0.89	0.95	0.88	0.79	0.88	0.88	0.90
CAP192194V1	Manufacturing	0.85	0.85	0.86	0.85	0.85	0.85	0.85	0.85	0.85
	Distribution	0.84								
	Installation	0.84								
	Use	0								
	End of Life	0.88	0.92	0.89	0.95	0.88	0.79	0.88	0.88	0.90

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	End of Life	0.93	0.96	0.93	0.97	0.93	0.88	0.93	0.93	0.94
CAP192204V1	Manufacturing	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.14
	Distribution	1.15								
	Installation	1.15								
	Use	0								
	End of Life	1.06	1.04	1.06	1.03	1.07	1.12	1.07	1.07	1.06
CAP192244V1	Manufacturing	1.37	1.37	1.36	1.36	1.36	1.37	1.37	1.38	1.36
	Distribution	1.39								
	Installation	1.39								
	Use	0								
	End of Life	1.16	1.11	1.16	1.06	1.17	1.30	1.18	1.17	1.15
CAP192254V1	Manufacturing	1.58	1.58	1.57	1.57	1.57	1.58	1.59	1.60	1.58
	Distribution	1.62								
	Installation	1.62								
	Use	0								
	End of Life	1.26	1.18	1.26	1.10	1.27	1.47	1.28	1.27	1.24
CAP192314V1	Manufacturing	2.05	2.06	2.03	2.05	2.04	2.06	2.08	2.09	2.05
	Distribution	2.12								
	Installation	2.12								
	Use	0								
	End of Life	1.47	1.32	1.47	1.19	1.50	1.85	1.51	1.49	1.43
CAP192324V1	Manufacturing	2.50	2.50	2.47	2.49	2.48	2.50	2.53	2.55	2.50
	Distribution	2.60								
	Installation	2.60								
	Use	0								
	End of Life	1.67	1.46	1.67	1.27	1.71	2.22	1.73	1.69	1.61
CAP192394V1	Manufacturing	3.12	3.12	3.08	3.11	3.10	3.12	3.17	3.20	3.11
	Distribution	3.26								
	Installation	3.26								
	Use	0								
	End of Life	1.95	1.65	1.95	1.38	2.00	2.72	2.03	1.98	1.86
CAP192404V1	Manufacturing	3.77	3.77	3.71	3.75	3.74	3.77	3.83	3.87	3.76
	Distribution	3.95								
	Installation	3.95								
	Use	0								
	End of Life	2.24	1.84	2.24	1.49	2.31	3.25	2.35	2.28	2.13
CAP192494V1	Manufacturing	4.98	4.99	4.89	4.95	4.94	4.99	5.07	5.12	4.97
	Distribution	5.23								
	Installation	5.23								
	Use	0								
	End of Life	2.79	2.21	2.78	1.71	2.88	4.23	2.93	2.84	2.62
CAP192504V1	Manufacturing	5.72	5.73	5.62	5.69	5.67	5.73	5.83	5.89	5.71
	Distribution	6.02								
	Installation	6.02								


Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Use	0								
	End of Life	3.12	2.44	3.11	1.84	3.24	4.83	3.30	3.18	2.92
CAP192624V1	Manufacturing	7.84	7.85	7.69	7.79	7.77	7.85	7.99	8.08	7.81
	Distribution	8.27								
	Installation	8.27								
	Use	0								
	End of Life	4.07	3.08	4.05	2.21	4.24	6.54	4.32	4.16	3.78
CAP192634V1	Manufacturing	10.92	10.93	10.71	10.85	10.82	10.93	11.15	11.28	10.89
	Distribution	11.55								
	Installation	11.55								
	Use	0								
	End of Life	5.45	4.02	5.42	2.76	5.70	9.05	5.82	5.58	5.03
CAP193124V1	Manufacturing	0.45	0.45	0.46	0.45	0.46	0.45	0.44	0.43	0.45
	Distribution	0.41								
	Installation	0.41								
	Use	0								
	End of Life	0.75	0.83	0.75	0.90	0.74	0.55	0.73	0.75	0.78
CAP193154V1	Manufacturing	0.53	0.53	0.54	0.53	0.54	0.53	0.52	0.51	0.53
	Distribution	0.50								
	Installation	0.50								
	Use	0								
	End of Life	0.79	0.86	0.79	0.92	0.78	0.62	0.77	0.78	0.81
CAP193164V1	Manufacturing	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.77
	Distribution	0.75								
	Installation	0.75								
	Use	0								
	End of Life	0.90	0.93	0.90	0.96	0.89	0.81	0.89	0.89	0.91
CAP193194V1	Manufacturing	0.88	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.88
	Distribution	0.87								
	Installation	0.87								
	Use	0								
	End of Life	0.94	0.96	0.95	0.98	0.94	0.90	0.94	0.94	0.95
CAP193204V1	Manufacturing	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.22	1.21
	Distribution	1.22								
	Installation	1.22								
	Use	0								
	End of Life	1.09	1.06	1.09	1.04	1.10	1.17	1.10	1.10	1.09
CAP193244V1	Manufacturing	1.43	1.43	1.42	1.42	1.42	1.43	1.44	1.44	1.42
	Distribution	1.45								
	Installation	1.45								
	Use	0								
	End of Life	1.19	1.13	1.19	1.08	1.20	1.35	1.21	1.20	1.17
CAP193254V1	Manufacturing	1.62	1.62	1.61	1.62	1.61	1.62	1.63	1.64	1.62
	Distribution	1.66								

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Installation	1.66								
	Use	0								
	End of Life	1.28	1.19	1.28	1.11	1.29	1.50	1.30	1.29	1.25
CAP193314V1	Manufacturing	2.08	2.08	2.05	2.07	2.07	2.08	2.10	2.12	2.07
	Distribution	2.15								
	Installation	2.15								
	Use	0								
	End of Life	1.48	1.33	1.48	1.19	1.51	1.87	1.52	1.50	1.44
CAP193324V1	Manufacturing	2.52	2.53	2.49	2.51	2.51	2.53	2.56	2.58	2.52
	Distribution	2.62								
	Installation	2.62								
	Use	0								
	End of Life	1.68	1.46	1.68	1.27	1.72	2.24	1.74	1.70	1.62
CAP193394V1	Manufacturing	3.11	3.12	3.07	3.10	3.09	3.12	3.16	3.19	3.11
	Distribution	3.25								
	Installation	3.25								
	Use	0								
	End of Life	1.95	1.64	1.94	1.38	2.00	2.71	2.03	1.98	1.86
CAP193404V1	Manufacturing	3.81	3.82	3.75	3.79	3.78	3.82	3.88	3.91	3.80
	Distribution	3.99								
	Installation	3.99								
	Use	0								
	End of Life	2.26	1.86	2.25	1.50	2.33	3.28	2.37	2.30	2.14
CAP193494V1	Manufacturing	4.96	4.97	4.87	4.93	4.92	4.97	5.05	5.10	4.95
	Distribution	5.21								
	Installation	5.21								
	Use	0								
	End of Life	2.78	2.21	2.77	1.70	2.88	4.21	2.92	2.83	2.61
CAP193504V1	Manufacturing	5.83	5.84	5.73	5.80	5.78	5.84	5.95	6.01	5.82
	Distribution	6.14								
	Installation	6.14								
	Use	0								
	End of Life	3.17	2.47	3.16	1.86	3.29	4.92	3.35	3.23	2.96
CAP193624V1	Manufacturing	7.86	7.87	7.71	7.81	7.79	7.87	8.02	8.11	7.84
	Distribution	8.30								
	Installation	8.30								
	Use	0								
	End of Life	4.08	3.09	4.06	2.22	4.25	6.56	4.33	4.17	3.79
CAP193634V1	Manufacturing	11.10	11.12	10.88	11.03	11.00	11.12	11.34	11.47	11.07
	Distribution	11.75								
	Installation	11.75								
	Use	0								
	End of Life	5.53	4.08	5.51	2.80	5.78	9.19	5.91	5.67	5.11
CAP187334	Manufacturing	0.70	0.70	0.70	0.70	0.70	0.70	0.69	0.68	0.70

Part No.	Impact Indicator	GWP100	ODP	Acidification	EP	POCP	ADPe	ADPf	WP	AP
	Phases	kg CO ₂ e	kg CFC-11 e	kg SO ₂ e	kg PO ₄ ³⁻ e	Kg C ₂ H ₄ e	kg Sb e	MJ	m ³	m ³
	Distribution	0.68								
	Installation	0.68								
	Use	0								
	End of Life	0.86	0.91	0.86	0.95	0.86	0.75	0.85	0.86	0.88

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.

<i>Registration N°</i>	EATO-00044-V01.01-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Verifier accreditation N°</i>	VH32	<i>Supplemented by</i>	-
<i>Date of issue</i>	07-2022	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	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)			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025: 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			