



NZM4 Molded Case Circuit Breaker (IEC) with Electronic Trip Unit and STD Technology

Representative product	NZMN4-4-AE1600 (Y7-265918) Product Category: Circuit Breakers
Description of the product	Eaton Moeller series NZM molded case circuit breaker with electronic trip unit and STD Technology is designed to protect the installation from overload and short circuits. It is used in unearthed supply systems up to 690 V.
Homogeneous Environmental Families Covered	The PEP concerns following product offerings from Eaton Moeller series NZM molded case circuit breaker with electronic trip unit and STD Technology as mentioned below: • Series: NZM Circuit Breaker • Switching Capacity: H (High), L (Limiter), N (Normal), S (Strong) • Rated Current - Classic Full Electronic (VE): 630A, 800A, 1000A, 1250A, 1600A • Rated Current - Classic Motor Electronic (ME): 550A, 875A, 1400A • Rated Current - Classic System Electronic (AE): 630A, 800A, 1000A, 1250A, 1600A, • No. of Poles: 3, 4 • Type of Voltage: S1 (1,000 V AC Version)
Functional unit	“Protect the installation from overloads and short circuits in a circuit with rated voltage 690V, rated current 1600A, with 4 poles, a rated breaking capacity 20 kA, and IP20 Rating, in the Industrial application area, according to the appropriate use scenario, and during the reference service life of the product of 20 years.”
Company information	Eaton Electro Productie s.r.l, Independentei 8, Sarbi, Romania, 437157 Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	2.69E+01 Kg (With packaging)		
Category PEP Material	Material constituent	Mass (kg)	% Contribution
Metal	Copper	7.77E+00	28.9%
Plastic	Polycarbonate	7.77E+00	28.9%
Metal	Steel	4.08E+00	15.2%
Metal	Copper Wire	2.22E+00	8.2%
Metal	Stainless Steel	1.24E+00	4.6%
Other	Cardboard	1.23E+00	4.6%
Plastic	Unsaturated Polyester	6.90E-01	2.6%
Other	Wood	5.83E-01	2.2%
Plastic	Polyurethane	4.37E-01	1.6%
Plastic	Polyester	2.80E-01	1.0%
Plastic	Polyamide 66 with 30% Glass Fiber	1.51E-01	0.6%
Other	Electronics	1.50E-01	0.6%
Plastic	Polybutylene Terephthalate with 30% Glass Fiber	8.08E-02	0.3%
Plastic	Polyphenylene Sulfide	6.06E-02	0.2%
Metal	Silver	5.80E-02	0.2%
Other	Miscellaneous	8.02E-02	0.3%
Total		2.69E+01	100.0%

Substance Assessment
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) with exemption and the product does contain Lead, Perfluorobutane Sulfonic Acid (PFBS) and its salts, Diboron trioxide, lead monoxide and Lead Titanium zirconium oxide as substance 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 an Eaton plant Sarbi, Romania holding management system certifications according to ISO 14001 standards.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	The installation process does not require any energy consumption and there is no waste other than the obsolete product packaging generated during this step.
Use	The product requires energy consumption during operation.
End of life	The recyclability rate of the overall product is 86.46% if it is properly dismantled prior to shredding. 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 v6.2.3 with database version CODDE-2024-04. Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0	
Manufacturing Phase	The product is assembled as well as packed at Eaton facility Eaton Electro Productie s.r.l, Independentei 8, Sarbi, Romania plant. The product is then transported 1837km by a lorry of 27t capacity from eaton plant to distribution center in Rheinbach, Germany. Energy model used: Romania
Distribution Phase	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.
Installation Phase	Product is installed in Europe. Installation of product and treatment of packaging waste are considered in this phase. There is no energy consumption for reference product. Energy model used: Europe
Use Phase	Reference lifetime: 20 Years Usage profile: The product has power loss of 284 W at full load condition. For Industrial applications considering 50% of the loading rate and 30% of the use time rate, total losses are 3731.76 kWh over the 20 years. Product do not require any maintenance/replacement during useful life. Industrial application is considered as per PSR-0005 section 3.2.2. Energy model used: Europe
End of life Phase	Product disposed with WEEE guidelines. Energy model used: Europe
Module-D	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.

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Climate change – total (GWP)	kg CO2 eq.	1.54E+03	1.80E+02	6.40E+00	4.95E+00	1.32E+03	3.63E+01	-8.65E+01
Climate change - fossil fuels (GWP-f)	kg CO2 eq.	1.53E+03	1.78E+02	6.40E+00	2.05E+00	1.31E+03	3.44E+01	-8.47E+01
Climate change – biogenics (GWP-b)	kg CO2 eq.	9.41E+00	2.13E+00	0.00E+00	2.90E+00	2.42E+00	1.96E+00	-1.75E+00
Climate change - land use and land use transformation (GWP-lu)	kg CO2 eq.	1.08E-02	1.08E-02	0.00E+00	0.00E+00	0.00E+00	3.23E-05	-9.87E-03
Ozone depletion (ODP)	kg eq. CFC-11	1.93E-04	1.86E-04	9.83E-09	2.56E-08	6.37E-06	1.25E-06	-9.95E-06
Acidification (AP)	mole of H+ eq.	1.00E+01	2.92E+00	4.06E-02	4.96E-03	6.74E+00	3.04E-01	-1.78E+00
Freshwater eutrophication (EP-fw)	kg P eq.	8.86E-02	2.43E-02	2.40E-06	2.03E-05	3.46E-03	6.08E-02	-3.13E-04

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Marine aquatic eutrophication (EP-m)	kg of N eq.	1.03E+00	1.47E-01	1.90E-02	2.16E-03	8.21E-01	3.82E-02	-6.00E-02
Terrestrial eutrophication (EP-t)	mole of N eq.	1.56E+01	1.71E+00	2.09E-01	1.53E-02	1.32E+01	4.43E-01	-6.91E-01
Photochemical ozone formation (POCP)	kg of NMVOC eq.	3.41E+00	6.59E-01	5.27E-02	3.71E-03	2.58E+00	1.16E-01	-3.16E-01
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	1.05E-01	1.03E-01	2.52E-07	7.60E-08	4.65E-04	1.97E-03	-4.44E-02
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	3.84E+04	3.66E+03	8.94E+01	1.56E+01	3.32E+04	1.38E+03	-1.68E+03
Water scarcity (WDP)	m3 of eq.. deprivation worldwide	4.48E+02	2.03E+02	2.43E-02	1.45E-01	1.01E+02	1.45E+02	-1.17E+02

*Other sub modules in the use stage (B1-B5, B7) are equal to 0, hence not listed in the table.

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	9.10E+03	2.48E+02	1.19E-01	4.95E+00	8.79E+03	6.26E+01	-1.04E+02
Use of renewable primary energy resources used as raw materials	MJ	3.42E+01	3.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.17E+01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	9.14E+03	2.82E+02	1.19E-01	4.95E+00	8.79E+03	6.26E+01	-1.26E+02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	3.81E+04	3.37E+03	8.94E+01	1.56E+01	3.32E+04	1.38E+03	-1.45E+03
Use of non-renewable primary energy resources used as raw materials	MJ	2.92E+02	2.92E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.29E+02
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	3.84E+04	3.66E+03	8.94E+01	1.56E+01	3.32E+04	1.38E+03	-1.68E+03
Use of secondary materials	kg	1.89E-05	1.89E-05	0.00E+00	0.00E+00	0.00E+00	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

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
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
Net use of fresh water	m3	1.07E+01	4.72E+00	5.67E-04	9.70E-03	2.37E+00	3.62E+00	-2.73E+00
Hazardous waste disposed of	kg	2.06E+03	1.98E+03	0.00E+00	1.45E-01	5.77E+01	2.52E+01	-1.30E+03
Non-hazardous waste disposed of	kg	3.27E+02	9.88E+01	2.25E-01	7.61E-01	2.22E+02	4.81E+00	-5.23E+01
Radioactive waste disposed of	kg	1.04E-01	5.18E-02	1.60E-04	1.01E-04	5.10E-02	1.03E-03	-2.84E-02
Components for re-use	kg	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	3.00E+01	6.72E+00	0.00E+00	1.20E+00	0.00E+00	2.21E+01	-2.35E-06
Materials for energy recovery	kg	4.83E-01	1.58E-02	0.00E+00	2.94E-01	0.00E+00	1.73E-01	-4.53E-01
Exported energy	MJ by energy vector	1.94E-01	0.00E+00	0.00E+00	1.94E-01	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the product	kg of C.	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 of C.	7.62E-01	7.62E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*Other sub modules in the use stage (B1-B5, B7) are equal to 0, hence not listed in the table

Environmental Impact Indicators: Optional

Optional Environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Emission of fine particles	incidence of diseases	7.75E-05	2.13E-05	3.30E-07	2.96E-08	5.42E-05	1.64E-06	-1.29E-05
Ionizing radiation, human health	kBq of U235 eq.	5.71E+03	3.79E+03	1.56E-02	1.45E+01	1.89E+03	7.75E+00	-2.61E+03
Ecotoxicity, fresh water	CTUe	6.29E+03	1.98E+03	4.20E+00	2.20E+01	2.48E+03	1.80E+03	-8.01E+02
Human toxicity, cancer effects	CTUh	1.74E-05	1.71E-05	1.13E-10	1.48E-07	1.65E-07	6.24E-08	-1.00E-05
Human toxicity, non-cancer effects	CTUh	4.28E-05	3.40E-05	2.18E-09	4.95E-09	3.95E-06	4.81E-06	-2.19E-05
Impacts related to land use/soil quality	-	3.23E+02	1.02E+02	0.00E+00	5.46E-03	3.64E+01	1.85E+02	-2.75E+01
Total use of primary energy during the life cycle	MJ	4.75E+04	3.95E+03	8.96E+01	2.06E+01	4.20E+04	1.45E+03	-1.81E+03

*Other sub modules in the use stage (B1-B5, B7) are equal to 0, hence not listed in the table.

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

Factors for Manufacturing, Distribution, Installation, End-of-Life, and Module-D Phase:

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
Y7-265918 (Reference)	NZMN4-4-AE1600	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265924	NZMH4-4-AE1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265925	NZMH4-4-AE1000/630	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265927	NZMH4-4-AE1250	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265928	NZMH4-4-AE1250/800	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265930	NZMH4-4-AE1600	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265931	NZMH4-4-AE1600/1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265921	NZMH4-4-AE800	Manufacturing	1.00												
		Distribution													
		Installation													

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		End of Life													
		Module D													
Y7-265922	NZMH4-4-AE800/500	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265990	NZMH4-4-VE1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265991	NZMH4-4-VE1000/630	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265993	NZMH4-4-VE1250	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265994	NZMH4-4-VE1250/800	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265996	NZMH4-4-VE1600	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265997	NZMH4-4-VE1600/1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265987	NZMH4-4-VE800	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		Module D													
Y7-265988	NZMH4-4-VE800/500	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-283224	NZML4-4-AE1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-283225	NZML4-4-AE1000/630	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-283227	NZML4-4-AE1250	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-283228	NZML4-4-AE1250/800	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-283230	NZML4-4-AE1600	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-283231	NZML4-4-AE1600/1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-283221	NZML4-4-AE800	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
Y7-283222	NZML4-4-AE800/500	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265912	NZMN4-4-AE1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265913	NZMN4-4-AE1000/630	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265915	NZMN4-4-AE1250	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265916	NZMN4-4-AE1250/800	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265919	NZMN4-4-AE1600/1000	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265909	NZMN4-4-AE800	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265910	NZMN4-4-AE800/500	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265978	NZMN4-4-VE1000	Manufacturing	1.00												

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-265979	NZMN4-4-VE1000/630	Manufacturing													
		Distribution													
		Installation	1.00												
		End of Life													
		Module D													
Y7-265981	NZMN4-4-VE1250	Manufacturing													
		Distribution													
		Installation	1.00												
		End of Life													
		Module D													
Y7-265982	NZMN4-4-VE1250/800	Manufacturing													
		Distribution													
		Installation	1.00												
		End of Life													
		Module D													
Y7-265984	NZMN4-4-VE1600	Manufacturing													
		Distribution													
		Installation	1.00												
		End of Life													
		Module D													
Y7-265985	NZMN4-4-VE1600/1000	Manufacturing													
		Distribution													
		Installation	1.00												
		End of Life													
		Module D													
Y7-265975	NZMN4-4-VE800	Manufacturing													
		Distribution													
		Installation	1.00												
		End of Life													
		Module D													
Y7-265976	NZMN4-4-VE800/500	Manufacturing													
		Distribution													
		Installation	1.00												
		End of Life													
		Module D													
Y7-265767	NZMH4-AE1600	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265765	NZMH4-AE1000	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290372	NZMH4-AE1000-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265766	NZMH4-AE1250	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290373	NZMH4-AE1250-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290374	NZMH4-AE1600-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290370	NZMH4-AE630-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290371	NZMH4-AE800-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265793	NZMH4-ME1400	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290385	NZMH4-ME1400-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265791	NZMH4-ME550	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290383	NZMH4-ME550-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265792	NZMH4-ME875	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290384	NZMH4-ME875-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265775	NZMH4-VE1000	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290377	NZMH4-VE1000-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265776	NZMH4-VE1250	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290378	NZMH4-VE1250-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265777	NZMH4-VE1600	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290379	NZMH4-VE1600-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290375	NZMH4-VE630-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-290376	NZMH4-VE800-S1	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283210	NZML4-AE1000	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283211	NZML4-AE1250	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283212	NZML4-AE1600	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
Y7-283220	NZML4-ME1400	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283218	NZML4-ME550	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283219	NZML4-ME875	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283215	NZML4-VE1000	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283216	NZML4-VE1250	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-283217	NZML4-VE1600	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265760	NZMN4-AE1000	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265761	NZMN4-AE1250	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265762	NZMN4-AE1600	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265785	NZMN4-ME1400	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265783	NZMN4-ME550	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265784	NZMN4-ME875	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265770	NZMN4-VE1000	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265771	NZMN4-VE1250	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265772	NZMN4-VE1600	Manufacturing	0.72	0.72	0.62	0.72	0.47	0.74	0.75	0.73	0.73	0.74	0.51	0.73	0.77
		Distribution	0.74	0.74	1.00	1.00	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.74	0.74	0.75	0.75	0.75	0.75	0.75	0.77	0.74	0.74	0.75	0.74	0.90
		Module D	0.73	0.73	0.72	0.72	0.71	0.74	0.68	0.72	0.73	0.74	0.54	0.73	0.76
Y7-265768	NZMN4-VE630	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-265763	NZMH4-AE630	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-265764	NZMH4-AE800	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-265773	NZMH4-VE630	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-265774	NZMH4-VE800	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-283128	NZML4-AE630	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-283129	NZML4-AE800	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-283213	NZML4-VE630	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-283214	NZML4-VE800	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-265758	NZMN4-AE630	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81

Part Number	Product Description	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m ³ eq.)
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-265759	NZMN4-AE800	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65
Y7-265769	NZMN4-VE800	Manufacturing	0.76	0.77	0.23	0.76	0.74	0.56	0.50	0.71	0.71	0.67	0.47	0.78	0.66
		Distribution	0.70	0.70	1.00	1.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
		Installation	0.83	0.82	0.84	1.00	0.82	0.80	0.79	0.78	0.80	0.80	0.80	0.79	0.81
		End of Life	0.69	0.70	0.50	0.49	0.54	0.59	0.49	0.68	0.62	0.65	0.49	0.83	0.80
		Module D	0.75	0.76	0.48	0.77	0.60	0.53	0.72	0.70	0.70	0.64	0.48	0.75	0.65

Multiplying Factors for Use Phase for homogenous products:

Part Number	Product Description	Use Phase Extrapolation Factors
Y7-265918 (Reference)	NZMN4-4-AE1600 (Reference)	1.00
Y7-265924	NZMH4-4-AE1000	0.43
Y7-265925	NZMH4-4-AE1000/630	0.43
Y7-265927	NZMH4-4-AE1250	0.61
Y7-265928	NZMH4-4-AE1250/800	0.61
Y7-265930	NZMH4-4-AE1600	1.00
Y7-265931	NZMH4-4-AE1600/1000	1.00
Y7-265921	NZMH4-4-AE800	0.28
Y7-265922	NZMH4-4-AE800/500	0.28
Y7-265990	NZMH4-4-VE1000	0.43
Y7-265991	NZMH4-4-VE1000/630	0.43
Y7-265993	NZMH4-4-VE1250	0.61
Y7-265994	NZMH4-4-VE1250/800	0.61
Y7-265996	NZMH4-4-VE1600	1.00
Y7-265997	NZMH4-4-VE1600/1000	1.00
Y7-265987	NZMH4-4-VE800	0.28
Y7-265988	NZMH4-4-VE800/500	0.28
Y7-283224	NZML4-4-AE1000	0.43

Part Number	Product Description	Use Phase Extrapolation Factors
Y7-283225	NZML4-4-AE1000/630	0.43
Y7-283227	NZML4-4-AE1250	0.61
Y7-283228	NZML4-4-AE1250/800	0.61
Y7-283230	NZML4-4-AE1600	1.00
Y7-283231	NZML4-4-AE1600/1000	1.00
Y7-283221	NZML4-4-AE800	0.28
Y7-283222	NZML4-4-AE800/500	0.28
Y7-265912	NZMN4-4-AE1000	0.58
Y7-265913	NZMN4-4-AE1000/630	0.58
Y7-265915	NZMN4-4-AE1250	0.61
Y7-265916	NZMN4-4-AE1250/800	0.61
Y7-265919	NZMN4-4-AE1600/1000	1.00
Y7-265909	NZMN4-4-AE800	0.37
Y7-265910	NZMN4-4-AE800/500	0.37
Y7-265978	NZMN4-4-VE1000	0.58
Y7-265979	NZMN4-4-VE1000/630	0.58
Y7-265981	NZMN4-4-VE1250	0.61
Y7-265982	NZMN4-4-VE1250/800	0.61
Y7-265984	NZMN4-4-VE1600	1.00
Y7-265985	NZMN4-4-VE1600/1000	1.00
Y7-265975	NZMN4-4-VE800	0.37
Y7-265976	NZMN4-4-VE800/500	0.37
Y7-265765	NZMH4-AE1000	0.43
Y7-290372	NZMH4-AE1000-S1	0.43
Y7-265766	NZMH4-AE1250	0.61
Y7-290373	NZMH4-AE1250-S1	0.61
Y7-265767	NZMH4-AE1600	1.00
Y7-290374	NZMH4-AE1600-S1	1.00
Y7-290370	NZMH4-AE630-S1	0.17
Y7-290371	NZMH4-AE800-S1	0.28
Y7-265793	NZMH4-ME1400	0.77
Y7-290385	NZMH4-ME1400-S1	0.77
Y7-265791	NZMH4-ME550	0.12
Y7-290383	NZMH4-ME550-S1	0.12

Part Number	Product Description	Use Phase Extrapolation Factors
Y7-265792	NZMH4-ME875	0.30
Y7-290384	NZMH4-ME875-S1	0.30
Y7-265775	NZMH4-VE1000	0.43
Y7-290377	NZMH4-VE1000-S1	0.43
Y7-265776	NZMH4-VE1250	0.61
Y7-290378	NZMH4-VE1250-S1	0.61
Y7-265777	NZMH4-VE1600	1.00
Y7-290379	NZMH4-VE1600-S1	1.00
Y7-290375	NZMH4-VE630-S1	0.17
Y7-290376	NZMH4-VE800-S1	0.28
Y7-283210	NZML4-AE1000	0.43
Y7-283211	NZML4-AE1250	0.61
Y7-283212	NZML4-AE1600	1.00
Y7-283220	NZML4-ME1400	0.77
Y7-283218	NZML4-ME550	0.12
Y7-283219	NZML4-ME875	0.30
Y7-283215	NZML4-VE1000	0.43
Y7-283216	NZML4-VE1250	0.61
Y7-283217	NZML4-VE1600	1.00
Y7-265760	NZMN4-AE1000	0.58
Y7-265761	NZMN4-AE1250	0.61
Y7-265762	NZMN4-AE1600	1.00
Y7-265785	NZMN4-ME1400	0.77
Y7-265783	NZMN4-ME550	0.12
Y7-265784	NZMN4-ME875	0.30
Y7-265770	NZMN4-VE1000	0.58
Y7-265771	NZMN4-VE1250	0.61
Y7-265772	NZMN4-VE1600	1.00
Y7-265763	NZMH4-AE630	0.17
Y7-265764	NZMH4-AE800	0.28
Y7-265773	NZMH4-VE630	0.17
Y7-265774	NZMH4-VE800	0.28
Y7-283128	NZML4-AE630	0.17
Y7-283129	NZML4-AE800	0.28

Part Number	Product Description	Use Phase Extrapolation Factors
Y7-283213	NZML4-VE630	0.17
Y7-283214	NZML4-VE800	0.28
Y7-265758	NZMN4-AE630	0.23
Y7-265759	NZMN4-AE800	0.37
Y7-265768	NZMN4-VE630	0.23
Y7-265769	NZMN4-VE800	0.37

Disclaimer

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Registration Number	EATO-00221-V01.01-EN	Drafting rules	PCR-ed4-EN-2021 09 06
Verifier accreditation Number	VH56	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	10-2024	Information and reference documents	www.pep-ecopassport.org
		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 »			