



NZM2 Molded Case Circuit Breaker (IEC) with PXR Electronic Trip Unit & Plug-in Technology

Representative product	NZMH2-4-VX250/VAR-SVE (Y7-191688) Product Category: Circuit Breakers
Description of the product	Eaton Moeller series NZM molded case circuit breaker with PXR electronic trip unit is designed to protect the installation from overload and short circuits. It is used in unearthed supply systems up to 690 V. It comes with Built-in device plug-in technique as mounting method.
Homogeneous Environmental Families Covered	The PEP concerns following product offerings from Eaton Moeller series NZM molded case circuit breaker with electronic trip unit as mentioned below: • Series: NZM Circuit Breaker • Switching Capacity: H (High), L (Limiter), N (Normal), S (Strong) • Rated Current: 90 A, 100 A, 140 A, 160 A, 220 A, 250 A • Release: MX (LI motor – motor protection, electronic), PX (LSI – selectivity and generator protection, electronic, with measuring equipment), VX (LSI – selectivity and generator protection, electronic), PMX (LI motor – motor protection, electronic, with measuring equipment). • No. of Poles: 3, 4 • Additional Function: TZ (Earth fault protection and zone selectivity ZSI, NZM2 only) • Mounting Method: SVE (Plug-in Technology)
Functional unit	“Protect the installation from overloads and short circuits in a circuit with rated voltage 690V, rated current 250A, 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	3.57E+00 Kg (With packaging)		
Category PEP Material	Material constituent	Mass (kg)	% Contribution
Plastics	Polycarbonate	7.58E-01	21.2%
Metals	Stainless Steel	6.22E-01	17.4%
Metals	Copper	5.47E-01	15.3%
Metals	Steel	5.31E-01	14.9%
Plastics	Unsaturated polyester resin	3.61E-01	10.1%
Plastics	Polyamide	2.74E-01	7.7%
Other	Wood	1.75E-01	4.9%
Other	Cardboard	1.47E-01	4.1%
Other	Electronic Components	7.51E-02	2.1%
Other	Paper	2.46E-02	0.7%
Plastics	Polybutylene terephthalate	2.30E-02	0.6%
Metals	Silver	1.60E-02	0.4%
Metals	Bronze	6.20E-03	0.2%
Plastics	Styrene Butadiene Rubber	6.01E-03	0.2%
Metals	Brass	2.00E-03	<0.1%
Other	Miscellaneous	2.17E-03	<0.1%
Total		3.57E+00	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 and Perfluoro butane sulfonic acid (PFBS) and its salts 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 78.32% 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 v6.2.2 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. 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 51.56 W at full load condition. For Industrial applications considering 50% of the loading rate and 30% of the use time rate, total losses are 677.498 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.	2.62E+02	2.79E+01	8.50E-01	8.97E-01	2.28E+02	4.78E+00	-1.19E+01
Climate change - fossil fuels (GWP-f)	kg CO2 eq.	2.61E+02	2.80E+01	8.50E-01	3.55E-01	2.27E+02	4.66E+00	-1.20E+01
Climate change – biogenics (GWP-b)	kg CO2 eq.	9.17E-01	-1.57E-01	0.00E+00	5.42E-01	4.19E-01	1.13E-01	5.15E-02
Climate change - land use and land use transformation (GWP-lu)	kg CO2 eq.	1.05E-03	1.05E-03	0.00E+00	0.00E+00	0.00E+00	1.81E-06	-9.62E-04
Ozone depletion (ODP)	kg eq. CFC-11	4.96E-06	3.75E-06	1.31E-09	9.14E-09	1.10E-06	9.64E-08	-1.51E-06
Acidification (AP)	mole of H+ eq.	1.46E+00	2.55E-01	5.39E-03	9.85E-04	1.17E+00	2.96E-02	-1.29E-01
Freshwater eutrophication (EP-fw)	kg P eq.	5.52E-03	1.53E-03	3.19E-07	3.16E-06	5.99E-04	3.38E-03	-1.12E-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.	1.72E-01	2.10E-02	2.53E-03	3.22E-04	1.42E-01	5.71E-03	-7.87E-03
Terrestrial eutrophication (EP-t)	mole of N eq.	2.59E+00	2.36E-01	2.77E-02	2.82E-03	2.28E+00	4.57E-02	-8.68E-02
Photochemical ozone formation (POCP)	kg of NMVOC eq.	5.53E-01	8.46E-02	7.00E-03	7.03E-04	4.47E-01	1.36E-02	-3.45E-02
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	2.57E-02	2.56E-02	3.35E-08	1.97E-08	8.05E-05	1.10E-04	-9.49E-03
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	6.66E+03	6.46E+02	1.19E+01	2.84E+00	5.75E+03	2.58E+02	-2.41E+02
Water scarcity (WDP)	m3 of eq.. deprivation worldwide	7.89E+01	2.09E+01	3.23E-03	5.68E-02	1.74E+01	4.04E+01	-1.10E+01

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	1.56E+03	3.06E+01	1.59E-02	8.86E-01	1.52E+03	4.87E+00	-9.40E+00
Use of renewable primary energy resources used as raw materials	MJ	7.17E+00	7.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.52E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.56E+03	3.78E+01	1.59E-02	8.86E-01	1.52E+03	4.87E+00	-1.29E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	6.62E+03	6.02E+02	1.19E+01	2.84E+00	5.75E+03	2.58E+02	-2.11E+02
Use of non-renewable primary energy resources used as raw materials	MJ	4.39E+01	4.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.98E+01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	6.66E+03	6.46E+02	1.19E+01	2.84E+00	5.75E+03	2.58E+02	-2.41E+02
Use of secondary materials	kg	2.38E-06	2.38E-06	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
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	1.95E+00	4.87E-01	7.53E-05	2.10E-03	4.10E-01	1.05E+00	-2.55E-01
Hazardous waste disposed of	kg	2.38E+02	2.24E+02	0.00E+00	5.06E-02	9.98E+00	3.23E+00	-1.14E+02
Non-hazardous waste disposed of	kg	5.43E+01	1.48E+01	2.99E-02	1.48E-01	3.84E+01	8.72E-01	-5.95E+00
Radioactive waste disposed of	kg	2.39E-02	1.49E-02	2.13E-05	1.62E-05	8.82E-03	1.83E-04	-3.17E-03
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	3.66E+00	8.92E-01	0.00E+00	1.41E-01	0.00E+00	2.62E+00	-2.28E-07

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
Materials for energy recovery	kg	1.63E-01	2.72E-03	0.00E+00	1.24E-01	0.00E+00	3.58E-02	0.00E+00
Exported energy	MJ by energy vector	6.68E-02	4.49E-05	0.00E+00	6.68E-02	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.	1.42E-01	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	1.23E-05	2.76E-06	4.39E-08	5.95E-09	9.39E-06	1.54E-07	-1.50E-06
Ionizing radiation, human health	kBq of U235 eq.	5.66E+02	2.14E+02	2.07E-03	2.35E+01	3.27E+02	8.45E-01	-1.44E+02
Ecotoxicity, fresh water	CTUe	5.39E+03	4.86E+03	5.58E-01	3.30E+00	4.30E+02	1.03E+02	-4.34E+03
Human toxicity, cancer effects	CTUh	7.76E-06	7.71E-06	1.50E-11	1.77E-08	2.86E-08	3.91E-09	-4.63E-06
Human toxicity, non-cancer effects	CTUh	3.60E-06	2.61E-06	2.90E-10	8.32E-10	6.84E-07	3.07E-07	-1.59E-06
Impacts related to land use/soil quality	-	2.38E+01	6.96E+00	0.00E+00	1.35E-03	6.30E+00	1.05E+01	-2.68E+00
Total use of primary energy during the life cycle	MJ	8.23E+03	6.84E+02	1.19E+01	3.73E+00	7.27E+03	2.63E+02	-2.54E+02

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.)
Y7-191688 (Reference)	NZMH2-4- VX250/VAR-SVE (Reference)	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192078		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.)
	NZMH2-4-PX100/VAR-SVE	Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192099	NZMH2-4-PX100/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192079	NZMH2-4-PX160/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192100	NZMH2-4-PX160/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192080	NZMH2-4-PX250/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192101	NZMH2-4-PX250/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191684	NZMH2-4-VX100-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191686	NZMH2-4-VX160/VAR-SVE	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.)
Y7-191685	NZMH2-4-VX160-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191687	NZMH2-4-VX250-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191568	NZML2-4-VX100-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191570	NZML2-4-VX160/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191569	NZML2-4-VX160-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192064	NZMN2-4-PX100/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192085	NZMN2-4-PX100/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192065	NZMN2-4-PX160/VAR-SVE	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													
Y7-192086	NZMN2-4-PX160/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192066	NZMN2-4-PX250/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192087	NZMN2-4-PX250/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191634	NZMN2-4-VX100-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191636	NZMN2-4-VX160/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191635	NZMN2-4-VX160-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191638	NZMN2-4-VX250/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191637	NZMN2-4-VX250-SVE	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													
Y7-192071	NZMS2-4-PX100/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192092	NZMS2-4-PX100/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192072	NZMS2-4-PX160/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192093	NZMS2-4-PX160/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192073	NZMS2-4-PX250/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-192094	NZMS2-4-PX250/VAR-TZ-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191664	NZMS2-4-VX100-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191666	NZMS2-4-VX160/VAR-SVE	Manufacturing	1.00												
		Distribution													

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													
		End of Life													
		Module D													
Y7-191665	NZMS2-4-VX160-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191668	NZMS2-4-VX250/VAR-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191667	NZMS2-4-VX250-SVE	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module D													
Y7-191563	NZML2-MX140-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191696	NZML2-MX90-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191694	NZML2-VX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191695	NZML2-VX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191676		Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83

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.)
	NZMH2-MX140-SVE	Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191677	NZMH2-MX220-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191675	NZMH2-MX90-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192124	NZMH2-PMX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192125	NZMH2-PMX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192126	NZMH2-PMX220-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192178	NZMH2-PX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192199	NZMH2-PX100-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82

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.)
Y7-192179	NZMH2-PX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192200	NZMH2-PX160-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192180	NZMH2-PX250-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192201	NZMH2-PX250-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191672	NZMH2-VX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191673	NZMH2-VX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191674	NZMH2-VX250-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191623	NZMN2-MX140-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98

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	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191624	NZMN2-MX220-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191622	NZMN2-MX90-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192118	NZMN2-PMX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192119	NZMN2-PMX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192120	NZMN2-PMX220-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192164	NZMN2-PX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192185	NZMN2-PX100-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192165	NZMN2-PX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96

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	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192186	NZMN2-PX160-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192166	NZMN2-PX250-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192187	NZMN2-PX250-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191619	NZMN2-VX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191620	NZMN2-VX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191621	NZMN2-VX250-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191657	NZMS2-MX140-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191658	NZMS2-MX220-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82

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	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191656	NZMS2-MX90-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192171	NZMS2-PX100-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192192	NZMS2-PX100-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192172	NZMS2-PX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192193	NZMS2-PX160-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192173	NZMS2-PX250-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-192194	NZMS2-PX250-TZ-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191653		Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83

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.)
	NZMS2-VX100-SVE	Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191654	NZMS2-VX160-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82
Y7-191655	NZMS2-VX250-SVE	Manufacturing	0.84	0.84	1.48	0.82	0.84	0.79	0.75	0.84	0.84	0.83	0.77	0.84	0.83
		Distribution	0.82	0.82	1.00	1.00	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
		Installation	1.00	1.00	1.00	1.00	0.97	0.99	1.00	1.00	0.99	0.99	0.98	0.99	0.96
		End of Life	0.80	0.80	0.75	0.74	0.77	0.80	0.74	0.87	0.79	0.80	0.74	0.81	0.98
		Module D	0.81	0.82	1.94	0.82	0.78	0.76	0.84	0.81	0.81	0.80	0.75	0.82	0.82

Multiplying Factors for Use Phase for homogenous products:

Part Number	Product Description	Use Phase Extrapolation Factors
Y7-191688 (Reference)	NZMH2-4-VX250/VAR-SVE (Reference)	1.00
Y7-191563	NZML2-MX140-SVE	0.31
Y7-191696	NZML2-MX90-SVE	0.13
Y7-191694	NZML2-VX100-SVE	0.16
Y7-191695	NZML2-VX160-SVE	0.41
Y7-191676	NZMH2-MX140-SVE	0.31
Y7-191677	NZMH2-MX220-SVE	0.77
Y7-191675	NZMH2-MX90-SVE	0.13
Y7-192124	NZMH2-PMX100-SVE	0.16
Y7-192125	NZMH2-PMX160-SVE	0.41
Y7-192126	NZMH2-PMX220-SVE	0.77
Y7-192178	NZMH2-PX100-SVE	0.16
Y7-192199	NZMH2-PX100-TZ-SVE	0.16
Y7-192179	NZMH2-PX160-SVE	0.41
Y7-192200	NZMH2-PX160-TZ-SVE	0.41
Y7-192180	NZMH2-PX250-SVE	1.00
Y7-192201	NZMH2-PX250-TZ-SVE	1.00
Y7-191672	NZMH2-VX100-SVE	0.16
Y7-191673	NZMH2-VX160-SVE	0.41
Y7-191674	NZMH2-VX250-SVE	1.00
Y7-191623	NZMN2-MX140-SVE	0.31
Y7-191624	NZMN2-MX220-SVE	0.77

Part Number	Product Description	Use Phase Extrapolation Factors
Y7-191622	NZMN2-MX90-SVE	0.13
Y7-192118	NZMN2-PMX100-SVE	0.16
Y7-192119	NZMN2-PMX160-SVE	0.41
Y7-192120	NZMN2-PMX220-SVE	0.77
Y7-192164	NZMN2-PX100-SVE	0.16
Y7-192185	NZMN2-PX100-TZ-SVE	0.16
Y7-192165	NZMN2-PX160-SVE	0.41
Y7-192186	NZMN2-PX160-TZ-SVE	0.41
Y7-192166	NZMN2-PX250-SVE	1.00
Y7-192187	NZMN2-PX250-TZ-SVE	1.00
Y7-191619	NZMN2-VX100-SVE	0.16
Y7-191620	NZMN2-VX160-SVE	0.41
Y7-191621	NZMN2-VX250-SVE	1.00
Y7-191657	NZMS2-MX140-SVE	0.31
Y7-191658	NZMS2-MX220-SVE	0.77
Y7-191656	NZMS2-MX90-SVE	0.13
Y7-192171	NZMS2-PX100-SVE	0.16
Y7-192192	NZMS2-PX100-TZ-SVE	0.16
Y7-192172	NZMS2-PX160-SVE	0.41
Y7-192193	NZMS2-PX160-TZ-SVE	0.41
Y7-192173	NZMS2-PX250-SVE	1.00
Y7-192194	NZMS2-PX250-TZ-SVE	1.00
Y7-191653	NZMS2-VX100-SVE	0.16
Y7-191654	NZMS2-VX160-SVE	0.41
Y7-191655	NZMS2-VX250-SVE	1.00
Y7-192078	NZMH2-4-PX100/VAR-SVE	0.16
Y7-192099	NZMH2-4-PX100/VAR-TZ-SVE	0.16
Y7-192079	NZMH2-4-PX160/VAR-SVE	0.41
Y7-192100	NZMH2-4-PX160/VAR-TZ-SVE	0.41
Y7-192080	NZMH2-4-PX250/VAR-SVE	1.00
Y7-192101	NZMH2-4-PX250/VAR-TZ-SVE	1.00
Y7-191684	NZMH2-4-VX100-SVE	0.16
Y7-191686	NZMH2-4-VX160/VAR-SVE	0.41
Y7-191685	NZMH2-4-VX160-SVE	0.41
Y7-191687	NZMH2-4-VX250-SVE	1.00
Y7-191568	NZML2-4-VX100-SVE	0.16
Y7-191570	NZML2-4-VX160/VAR-SVE	0.41
Y7-191569	NZML2-4-VX160-SVE	0.41
Y7-192064	NZMN2-4-PX100/VAR-SVE	0.16
Y7-192085	NZMN2-4-PX100/VAR-TZ-SVE	0.16
Y7-192065	NZMN2-4-PX160/VAR-SVE	0.41
Y7-192086	NZMN2-4-PX160/VAR-TZ-SVE	0.41
Y7-192066	NZMN2-4-PX250/VAR-SVE	1.00
Y7-192087	NZMN2-4-PX250/VAR-TZ-SVE	1.00
Y7-191634	NZMN2-4-VX100-SVE	0.16
Y7-191636	NZMN2-4-VX160/VAR-SVE	0.41

Part Number	Product Description	Use Phase Extrapolation Factors
Y7-191635	NZMN2-4-VX160-SVE	0.41
Y7-191638	NZMN2-4-VX250/VAR-SVE	1.00
Y7-191637	NZMN2-4-VX250-SVE	1.00
Y7-192071	NZMS2-4-PX100/VAR-SVE	0.16
Y7-192092	NZMS2-4-PX100/VAR-TZ-SVE	0.16
Y7-192072	NZMS2-4-PX160/VAR-SVE	0.41
Y7-192093	NZMS2-4-PX160/VAR-TZ-SVE	0.41
Y7-192073	NZMS2-4-PX250/VAR-SVE	1.00
Y7-192094	NZMS2-4-PX250/VAR-TZ-SVE	1.00
Y7-191664	NZMS2-4-VX100-SVE	0.16
Y7-191666	NZMS2-4-VX160/VAR-SVE	0.41
Y7-191665	NZMS2-4-VX160-SVE	0.41
Y7-191668	NZMS2-4-VX250/VAR-SVE	1.00
Y7-191667	NZMS2-4-VX250-SVE	1.00

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.

Registration Number	EATO-00185-V01.01-EN	Drafting rules	PCR-ed4-EN-2021 09 06
Verifier accreditation Number	VH53	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	07-2024	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 »			