



Mechanical RCBO 3 Pole + PCB

Representative product	PKPM3-32/3/C/01-LI/A (Y7-196669) Product Category: Differential circuit-breakers
Description of the product	Eaton's mechanical RCBO - Residual-current circuit breaker with overcurrent protection is designed to provide circuit protection for low-voltage distribution systems. Eaton circuit breakers protect conductors against overloads and conductors and connected apparatus, such as motors and motor starters, against short circuits.
Homogeneous Environmental Families Covered	The PEP concerns following product offerings from Eaton residual-current circuit breaker with overcurrent protection as mentioned below: Series: PKPM3, FRBMM, NmRBM, PKP63 Current Range: 6A, 10A, 13A, 16A, 20A, 25A, 32A No of Poles: 3 Tripping Curves: B, C, D Sensitivity: 30 mA, 100 mA Differential protection type: A
Functional unit	Protect the installation against overloads and short circuits and protect people and premises at risk of fire or explosion against insulation defects in a circuit with rated voltage 230V AC, rated current 32A, with 3 poles, a rated breaking capacity 10kA, the tripping curve C (MCB) / A (RCD), the sensitivity 100mA, and the differential protection type A, in the household/Commercial 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	4.78E-01 kg (With packaging)		
Category PEP Material	Materials	Mass (kg)	Percentage (%)
Plastic	Polyamide	1.61E-01	33.6%
Metal	Steel	1.18E-01	24.6%
Metal	Copper	8.47E-02	17.7%
Other	Corrugated Cardboard	4.05E-02	8.5%
Metal	Stainless steel	2.52E-02	5.3%
Other	Electronic Components	1.19E-02	2.5%
Other	Wood	1.17E-02	2.4%
Plastic	Polymethyl methacrylate (PMMA)	4.82E-03	1.0%
Plastic	Tetrafluoroethylene	4.21E-03	0.9%
Metal	Ferronickel	3.25E-03	0.7%
Plastic	Polycarbonate	2.75E-03	0.6%
Metal	Nickel	2.54E-03	0.5%
Plastic	Phenolic Resin	2.31E-03	0.5%
Other	Paper	1.86E-03	0.4%
Plastic	Polybutylene Terephthalate (PBT)	1.28E-03	0.3%
Other	Miscellaneous	2.50E-03	0.5%
Total		4.78E-01	100.0%

Substance Assessment
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) with Duty-to-declare and the product does contain Lead 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	Product do not need any maintenance during Use phase
End of life	The recyclability rate of the overall product is 86.51% 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 v6.2-22 with database version CODDE-2024-04. Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v1.0	
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, Europe, Global
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 12.8 W at full load condition. For commercial applications considering 15% of the loading rate and 30% use time rate, total losses are 15.138 kWh over the 20 years. Product do not require any maintenance/replacement during useful life. Energy model used: Europe
End of life Phase	Product disposed with WEEE guidelines. Energy model used: Europe, Global
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
Depletion of abiotic resources - elements	kg equivalent Sb	5.04E-04	4.85E-04	4.49E-09	2.83E-09	1.89E-06	1.68E-05	-2.14E-04
Depletion of abiotic resources - fossil fuels	MJ	2.72E+02	1.02E+02	1.59E+00	5.06E-01	1.35E+02	3.31E+01	-4.62E+01
Acidification (AP)	mole of H+ equiv	8.06E-02	4.48E-02	7.69E-04	1.82E-04	2.93E-02	5.49E-03	-2.34E-02
Freshwater eutrophication	kg P eq.	7.49E-04	2.18E-04	4.27E-08	6.55E-07	1.40E-05	5.16E-04	-1.01E-05
Marine aquatic eutrophication	kg of N equiv	8.11E-03	3.83E-03	3.38E-04	7.04E-05	3.33E-03	5.37E-04	-2.07E-03
Terrestrial eutrophication	mole of N equiv	9.81E-02	3.40E-02	3.71E-03	4.94E-04	5.35E-02	6.45E-03	-1.51E-02
Climate change - total	kg CO ₂ eq.	1.16E+01	5.35E+00	1.14E-01	1.48E-01	5.34E+00	6.53E-01	-2.01E+00

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 - biogenics	kg CO ₂ eq.	7.43E-02	-3.87E-02	0.00E+00	8.66E-02	9.82E-03	1.66E-02	3.72E-02
Climate change - fossil fuels	kg CO ₂ eq.	1.15E+01	5.38E+00	1.14E-01	6.17E-02	5.33E+00	6.37E-01	-2.05E+00
Climate change - land use and land use transformation	kg CO ₂ eq.	4.19E-06	3.92E-06	0.00E+00	0.00E+00	0.00E+00	2.74E-07	-3.49E-06
Ozone depletion	kg equivalent CFC-11	2.12E-05	2.12E-05	1.75E-10	1.10E-09	2.59E-08	1.48E-08	-1.07E-07
Photochemical ozone formation	kg of NMVOC equiv	2.52E-02	1.18E-02	9.36E-04	1.19E-04	1.05E-02	1.85E-03	-5.45E-03
Water scarcity	m3 of equiv. deprivation worldwide	4.51E+00	3.20E+00	4.33E-04	6.86E-03	4.09E-01	8.94E-01	-1.82E+00

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	4.03E+01	3.71E+00	2.12E-03	1.60E-01	3.56E+01	8.03E-01	-6.24E-01
Use of renewable primary energy resources used as raw materials	MJ	1.39E+00	1.39E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.30E-01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	4.17E+01	5.10E+00	2.12E-03	1.60E-01	3.56E+01	8.03E-01	-1.15E+00
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2.68E+02	9.77E+01	1.59E+00	5.06E-01	1.35E+02	3.31E+01	-4.25E+01
Use of non-renewable primary energy resources used as raw materials	MJ	4.60E+00	4.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.69E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.72E+02	1.02E+02	1.59E+00	5.06E-01	1.35E+02	3.31E+01	-4.62E+01

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
resources used as raw materials)								
Use of secondary materials	kg	1.74E-06	1.74E-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	1.06E-01	7.47E-02	1.01E-05	3.68E-04	9.60E-03	2.17E-02	-4.24E-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	5.64E-01	1.50E-01	0.00E+00	3.85E-02	0.00E+00	3.75E-01	-2.29E-08
Materials for energy recovery	kg	1.05E-02	5.94E-04	0.00E+00	7.58E-03	0.00E+00	2.32E-03	0.00E+00
Exported energy	MJ by energy vector	3.97E-03	0.00E+00	0.00E+00	3.97E-03	0.00E+00	0.00E+00	0.00E+00
Hazardous waste disposed of	kg	1.99E+01	1.92E+01	0.00E+00	3.97E-03	2.34E-01	4.40E-01	-1.22E+01
Non-hazardous waste disposed of	kg	3.06E+00	2.01E+00	4.00E-03	2.22E-02	9.01E-01	1.18E-01	-6.27E-01
Radioactive waste disposed of	kg	1.84E-03	1.57E-03	2.85E-06	3.17E-06	2.07E-04	5.04E-05	-1.99E-04
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.	2.19E-02	2.19E-02	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
Ecotoxicity, fresh water	CTUe	5.02E+02	4.75E+02	7.46E-02	7.12E-01	1.01E+01	1.57E+01	-4.21E+02
Human toxicity, cancer effects	CTUh	3.40E-07	3.34E-07	2.00E-12	4.86E-09	6.71E-10	9.27E-10	-1.95E-07
Human toxicity, non-cancer effects	CTUh	4.35E-07	3.76E-07	3.87E-11	1.59E-10	1.60E-08	4.35E-08	-2.08E-07
Ionizing radiation, human health	kBq of U235 equiv.	5.75E+01	4.79E+01	2.78E-04	1.75E+00	7.67E+00	1.51E-01	-3.46E+01
Impacts related to land use/soil quality	-	2.36E+00	6.52E-01	0.00E+00	1.59E-04	1.48E-01	1.56E+00	-9.74E-03
Emission of fine particles	incidence of diseases	5.96E-07	3.46E-07	5.87E-09	9.77E-10	2.20E-07	2.25E-08	-1.79E-07
Total use of primary energy during the life cycle	MJ	3.14E+02	1.07E+02	1.59E+00	6.66E-01	1.70E+02	3.39E+01	-4.74E+01

*B6 is energy requirements during the use stage. Other sub modules in the use stage (B1 -B5, B7) are equal to zero. So, it is not listed in the table.

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

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

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
Y7-196669	PKPM3-32/3/C/01-Li/A (Reference)	All Phases							1.00						
Y7-170772	FRBMM-C25/3/003-A	All Phases							1.00						
Y7-305163	FRBMM-C25/3/003-A-RT	All Phases							1.00						
Y7-170747	FRBMM-C25/3/01-A	All Phases							1.00						
Y7-170773	FRBMM-C32/3/003-A	All Phases							1.00						
Y7-305164	FRBMM-C32/3/003-A-RT	All Phases							1.00						
Y7-170748	FRBMM-C32/3/01-A	All Phases							1.00						
Y7-170779	FRBMM-D25/3/003-A	All Phases							1.00						
Y7-305170	FRBMM-D25/3/003-A-RT	All Phases							1.00						
Y7-170754	FRBMM-D25/3/01-A	All Phases							1.00						
Y7-193830	NmRBM-25/3/C/003-A	All Phases							1.00						
Y7-193832	NmRBM-25/3/C/01-A	All Phases							1.00						
Y7-193831	NmRBM-32/3/C/003-A	All Phases							1.00						
Y7-193833	NmRBM-32/3/C/01-A	All Phases							1.00						
Y7-136568	PKP63-25/3/C/003-A	All Phases							1.00						
Y7-136570	PKP63-25/3/C/01-A	All Phases							1.00						
Y7-136569	PKP63-32/3/C/003-A	All Phases							1.00						
Y7-136571	PKP63-32/3/C/01-A	All Phases							1.00						

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
Y7-136563	PKPM3-25/3/C/003-A	All Phases	1.00												
Y7-196666	PKPM3-25/3/C/003-Li/A	All Phases	1.00												
Y7-136566	PKPM3-25/3/C/01-A	All Phases	1.00												
Y7-196667	PKPM3-25/3/C/01-Li/A	All Phases	1.00												
Y7-136564	PKPM3-32/3/C/003-A	All Phases	1.00												
Y7-196668	PKPM3-32/3/C/003-Li/A	All Phases	1.00												
Y7-136567	PKPM3-32/3/C/01-A	All Phases	1.00												
Y7-170733	FRBMM-B10/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305151	FRBMM-B10/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170780	FRBMM-B10/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170734	FRBMM-B13/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305152	FRBMM-B13/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
Y7-170781	FRBMM-B13/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170735	FRBMM-B16/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305153	FRBMM-B16/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170782	FRBMM-B16/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170736	FRBMM-B20/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305154	FRBMM-B20/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170783	FRBMM-B20/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170738	FRBMM-C10/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	EpF (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305158	FRBMM-C10/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170743	FRBMM-C10/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170739	FRBMM-C13/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305159	FRBMM-C13/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170744	FRBMM-C13/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170740	FRBMM-C16/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305161	FRBMM-C16/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170745	FRBMM-C16/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170741	FRBMM-C20/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305162	FRBMM-C20/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170746	FRBMM-C20/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170737	FRBMM-C6/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305157	FRBMM-C6/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170742	FRBMM-C6/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170775	FRBMM-D10/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305166	FRBMM-D10/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	EpF (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170750	FRBMM-D10/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170776	FRBMM-D13/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305167	FRBMM-D13/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170751	FRBMM-D13/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170777	FRBMM-D16/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305168	FRBMM-D16/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170752	FRBMM-D16/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170778		Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	EpF (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
	FRBMM-D20/3/003-A	Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305169	FRBMM-D20/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170753	FRBMM-D20/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170774	FRBMM-D6/3/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-305165	FRBMM-D6/3/003-A-RT	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-170749	FRBMM-D6/3/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193809	NmRBM-10/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193794	NmRBM-10/3/B/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
Y7-193813	NmRBM-10/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193797	NmRBM-10/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193810	NmRBM-13/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193814	NmRBM-13/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193798	NmRBM-13/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193811	NmRBM-16/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193795	NmRBM-16/3/B/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193815	NmRBM-16/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193799	NmRBM-16/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193812	NmRBM-20/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193796	NmRBM-20/3/B/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193816	NmRBM-20/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-193800	NmRBM-20/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108322	PKPM3-10/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196651	PKPM3-10/3/B/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108129	PKPM3-10/3/B/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	EpF (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196650	PKPM3-10/3/B/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108326	PKPM3-10/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196652	PKPM3-10/3/C/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108133	PKPM3-10/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196653	PKPM3-10/3/C/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108323	PKPM3-13/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196655	PKPM3-13/3/B/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108130	PKPM3-13/3/B/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	EpF (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196654	PKPM3-13/3/B/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108327	PKPM3-13/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196656	PKPM3-13/3/C/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108134	PKPM3-13/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196657	PKPM3-13/3/C/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108324	PKPM3-16/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196658	PKPM3-16/3/B/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108131		Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	EpP (kg P eq.)	EpM (kg N eq.)	EpT (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
	PKPM3-16/3/B/01-A	Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196659	PKPM3-16/3/B/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108328	PKPM3-16/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196660	PKPM3-16/3/C/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108135	PKPM3-16/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196661	PKPM3-16/3/C/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108325	PKPM3-20/3/B/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196663	PKPM3-20/3/B/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
Y7-108132	PKPM3-20/3/B/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196662	PKPM3-20/3/B/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108329	PKPM3-20/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196664	PKPM3-20/3/C/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-108136	PKPM3-20/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196665	PKPM3-20/3/C/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-136562	PKPM3-6/3/C/003-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196649	PKPM3-6/3/C/003-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63

Part Number	Product Description	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H+ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-136565	PKPM3-6/3/C/01-A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77
Y7-196648	PKPM3-6/3/C/01-Li/A	Manufacturing	0.75	1.05	0.67	0.32	0.93	0.91	0.88	1.56	0.88	0.98	0.61	0.86	0.77
		Distribution	0.90												
		Installation	1.00												
		End of Life	0.23	1.00	0.63	0.23	0.78	0.73	0.86	0.24	0.87	0.23	0.50	0.79	0.63
		Module D	0.50	1.05	0.57	0.93	0.93	0.88	0.96	1.31	0.97	1.00	0.58	0.81	0.77

Multiplying Factors for Use Phase:

Part Number	Product Description	Use Phase Extrapolation Factor
Y7-196669	PKPM3-32/3/C/01-Li/A (Reference)	1.00
Y7-170733	FRBMM-B10/3/003-A	0.59
Y7-305151	FRBMM-B10/3/003-A-RT	0.59
Y7-170780	FRBMM-B10/3/01-A	0.59
Y7-170734	FRBMM-B13/3/003-A	0.70
Y7-305152	FRBMM-B13/3/003-A-RT	0.70
Y7-170781	FRBMM-B13/3/01-A	0.70
Y7-170735	FRBMM-B16/3/003-A	0.65
Y7-305153	FRBMM-B16/3/003-A-RT	0.65
Y7-170782	FRBMM-B16/3/01-A	0.65
Y7-170736	FRBMM-B20/3/003-A	0.88
Y7-305154	FRBMM-B20/3/003-A-RT	0.88
Y7-170783	FRBMM-B20/3/01-A	0.88
Y7-170738	FRBMM-C10/3/003-A	0.49
Y7-305158	FRBMM-C10/3/003-A-RT	0.49
Y7-170743	FRBMM-C10/3/01-A	0.49
Y7-170739	FRBMM-C13/3/003-A	0.70
Y7-305159	FRBMM-C13/3/003-A-RT	0.70
Y7-170744	FRBMM-C13/3/01-A	0.70
Y7-170740	FRBMM-C16/3/003-A	0.67
Y7-305161	FRBMM-C16/3/003-A-RT	0.67
Y7-170745	FRBMM-C16/3/01-A	0.67
Y7-170741	FRBMM-C20/3/003-A	0.72

Part Number	Product Description	Use Phase Extrapolation Factor
Y7-305162	FRBMM-C20/3/003-A-RT	0.72
Y7-170746	FRBMM-C20/3/01-A	0.72
Y7-170772	FRBMM-C25/3/003-A	0.73
Y7-305163	FRBMM-C25/3/003-A-RT	0.73
Y7-170747	FRBMM-C25/3/01-A	0.73
Y7-170773	FRBMM-C32/3/003-A	1.00
Y7-305164	FRBMM-C32/3/003-A-RT	1.00
Y7-170748	FRBMM-C32/3/01-A	1.00
Y7-170737	FRBMM-C6/3/003-A	0.31
Y7-305157	FRBMM-C6/3/003-A-RT	0.31
Y7-170742	FRBMM-C6/3/01-A	0.31
Y7-170775	FRBMM-D10/3/003-A	0.51
Y7-305166	FRBMM-D10/3/003-A-RT	0.51
Y7-170750	FRBMM-D10/3/01-A	0.51
Y7-170776	FRBMM-D13/3/003-A	0.46
Y7-305167	FRBMM-D13/3/003-A-RT	0.46
Y7-170751	FRBMM-D13/3/01-A	0.46
Y7-170777	FRBMM-D16/3/003-A	0.70
Y7-305168	FRBMM-D16/3/003-A-RT	0.70
Y7-170752	FRBMM-D16/3/01-A	0.70
Y7-170778	FRBMM-D20/3/003-A	0.76
Y7-305169	FRBMM-D20/3/003-A-RT	0.76
Y7-170753	FRBMM-D20/3/01-A	0.76
Y7-170779	FRBMM-D25/3/003-A	0.72
Y7-305170	FRBMM-D25/3/003-A-RT	0.72
Y7-170754	FRBMM-D25/3/01-A	0.72
Y7-170774	FRBMM-D6/3/003-A	0.31
Y7-305165	FRBMM-D6/3/003-A-RT	0.31
Y7-170749	FRBMM-D6/3/01-A	0.31
Y7-193809	NmRBM-10/3/B/003-A	0.59
Y7-193794	NmRBM-10/3/B/01-A	0.59
Y7-193813	NmRBM-10/3/C/003-A	0.49
Y7-193797	NmRBM-10/3/C/01-A	0.49
Y7-193810	NmRBM-13/3/B/003-A	0.70
Y7-193814	NmRBM-13/3/C/003-A	0.70
Y7-193798	NmRBM-13/3/C/01-A	0.70
Y7-193811	NmRBM-16/3/B/003-A	0.65
Y7-193795	NmRBM-16/3/B/01-A	0.65
Y7-193815	NmRBM-16/3/C/003-A	0.67
Y7-193799	NmRBM-16/3/C/01-A	0.67
Y7-193812	NmRBM-20/3/B/003-A	0.88

Part Number	Product Description	Use Phase Extrapolation Factor
Y7-193796	NmRBM-20/3/B/01-A	0.88
Y7-193816	NmRBM-20/3/C/003-A	0.72
Y7-193800	NmRBM-20/3/C/01-A	0.72
Y7-193830	NmRBM-25/3/C/003-A	0.73
Y7-193832	NmRBM-25/3/C/01-A	0.73
Y7-193831	NmRBM-32/3/C/003-A	1.00
Y7-193833	NmRBM-32/3/C/01-A	1.00
Y7-136568	PKP63-25/3/C/003-A	0.73
Y7-136570	PKP63-25/3/C/01-A	0.73
Y7-136569	PKP63-32/3/C/003-A	1.00
Y7-136571	PKP63-32/3/C/01-A	1.00
Y7-108322	PKPM3-10/3/B/003-A	0.59
Y7-196651	PKPM3-10/3/B/003-Li/A	0.59
Y7-108129	PKPM3-10/3/B/01-A	0.59
Y7-196650	PKPM3-10/3/B/01-Li/A	0.59
Y7-108326	PKPM3-10/3/C/003-A	0.49
Y7-196652	PKPM3-10/3/C/003-Li/A	0.49
Y7-108133	PKPM3-10/3/C/01-A	0.49
Y7-196653	PKPM3-10/3/C/01-Li/A	0.49
Y7-108323	PKPM3-13/3/B/003-A	0.70
Y7-196655	PKPM3-13/3/B/003-Li/A	0.70
Y7-108130	PKPM3-13/3/B/01-A	0.70
Y7-196654	PKPM3-13/3/B/01-Li/A	0.70
Y7-108327	PKPM3-13/3/C/003-A	0.70
Y7-196656	PKPM3-13/3/C/003-Li/A	0.70
Y7-108134	PKPM3-13/3/C/01-A	0.70
Y7-196657	PKPM3-13/3/C/01-Li/A	0.70
Y7-108324	PKPM3-16/3/B/003-A	0.65
Y7-196658	PKPM3-16/3/B/003-Li/A	0.65
Y7-108131	PKPM3-16/3/B/01-A	0.65
Y7-196659	PKPM3-16/3/B/01-Li/A	0.65
Y7-108328	PKPM3-16/3/C/003-A	0.67
Y7-196660	PKPM3-16/3/C/003-Li/A	0.67
Y7-108135	PKPM3-16/3/C/01-A	0.67
Y7-196661	PKPM3-16/3/C/01-Li/A	0.67
Y7-108325	PKPM3-20/3/B/003-A	0.88
Y7-196663	PKPM3-20/3/B/003-Li/A	0.88
Y7-108132	PKPM3-20/3/B/01-A	0.88
Y7-196662	PKPM3-20/3/B/01-Li/A	0.88
Y7-108329	PKPM3-20/3/C/003-A	0.72
Y7-196664	PKPM3-20/3/C/003-Li/A	0.72

Part Number	Product Description	Use Phase Extrapolation Factor
Y7-108136	PKPM3-20/3/C/01-A	0.72
Y7-196665	PKPM3-20/3/C/01-Li/A	0.72
Y7-136563	PKPM3-25/3/C/003-A	0.73
Y7-196666	PKPM3-25/3/C/003-Li/A	0.73
Y7-136566	PKPM3-25/3/C/01-A	0.73
Y7-196667	PKPM3-25/3/C/01-Li/A	0.73
Y7-136564	PKPM3-32/3/C/003-A	1.00
Y7-196668	PKPM3-32/3/C/003-Li/A	1.00
Y7-136567	PKPM3-32/3/C/01-A	1.00
Y7-136562	PKPM3-6/3/C/003-A	0.31
Y7-196649	PKPM3-6/3/C/003-Li/A	0.31
Y7-136565	PKPM3-6/3/C/01-A	0.31
Y7-196648	PKPM3-6/3/C/01-Li/A	0.31

For part numbers intended for commercial as well, the Use Phase (B6) impacts of Industrial application of specific part number should be multiplied by 11.12 to calculate impacts for commercial application of that specific part number. The impact for other phases remains the same for all applications.

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-00172-V01.01-EN	Drafting rules	PCR-ed4-EN-2021 09 06
Verifier accreditation Number	VH54	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	05-2024	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 »			