


# PRODUCT ENVIRONMENTAL PROFILE

## COMPRESSED AIR RECEIVERS AND PRESSURE VESSEL



Registration number: <b>CORD-00006-V01.01-EN</b>		Drafting rules : «PCR-ed4-EN-2021 09 06» <b>Supplemented by «/»</b>
Verifier accreditation number : <b>VH50</b>		Information and reference document: <b><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></b>
Date of issue: <b>12-2025</b>		Validity period: <b>5 years</b>
Independent verification of the declaration and data in compliance with ISO 14025: 2006		
Internal <input type="checkbox"/>	External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)		
PEPs are compliant with NF C08-100-1:2022 and EN 50693:2019 or NF E38-500 :2022 The components of the present PEP may not be compared with components from any other program.		
Document compiles with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"		

**COMPANY INFORMATION**

<b>General Information</b>	Cordivari Srl - Zona Ind.le Pagliare Morro D'Oro Snc 64020 (TE) - Italy
<b>Legal contact within the company</b>	info@cordivari.it

Cordivari Srl is one of the leading Italian companies in the hydro-thermal-sanitary sector, specializing in the production of hydrothermal systems for domestic, civil, and industrial applications.

The company continuously renews its commitment by focusing on developing products and solutions that combine efficiency, reliability, and environmental sustainability.

Cordivari is certified according to UNI EN ISO 9001, UNI EN ISO 14001, and UNI EN ISO 45001 standards, implementing an integrated management system that ensures high quality standards and full customer satisfaction.

**REFERENCE PRODUCT**

<b>Reference Product</b>	ARIA C.SA Z PED11 500 LT
<b>Reference lifetime (RLT)</b>	20 years
<b>Volume (L)</b>	500
<b>Certifications</b>	Compressed air receivers are produced according to European Directive 2014/29/CE for items with a "volume x pressure" minor than 10.000 Bar x liter. These tanks are marked CE under the monitoring of an external control agency. <ul style="list-style-type: none"> <li>• Liquid in pressure: air</li> <li>• Liquid group: 2</li> <li>• Temperature: -10/+100°C</li> </ul>
<b>Main constituents</b>	<ul style="list-style-type: none"> <li>• Steel tank</li> <li>• Packaging</li> </ul>
<b>Finish</b>	Galvanized steel
<b>Functional Unit</b>	<i>"Ensure the storage of 1 liter of pressurized fluid, with a reference lifetime of 20 of the product"</i>

**TECHNICAL CHARACTERISTICS**

<b>Total mass of the product (including packaging)</b>	108,653 kg
<b>Packaging mass</b>	10,810 kg
<b>Product mass</b>	97,843 kg

**CONSTITUENT MATERIALS**

Constituent materials	Metals		Plastics		Other materials	
	Carbon steel	84,3%	Low-density polyethylene (50% recycled)	0,4%	Wooden packaging (pallet)	9,6%
Zinc	5,6%	High-Density Polyethylene HPDE	0,1%			
Total	89,9%	Total	0,5%	Total	9,6%	

**LIFE CYCLE ANALYSIS METHODOLOGY**

Temporal Representativeness	Primary data collected in the reference period 01/01/2024 -31/12/2024				
Technological Representativeness	Primary data collected from the manufacturing plant in Italy through the technical documentation of the storage tank (Material information and supplier data)				
Geographical representativeness	MANUFACTURING	DISTRIBUTION	INSTALLATION	USE	END OF LIFE
	Italy/Europe	Europe	Europe	Europe	Europe
Energy models	MANUFACTURING STAGE (MODULE A3)		Electricity, low voltage, residual mix Italy   electricity, low voltage		
			Electricity production, photovoltaic, 570kWp open ground installation, multi-Si   electricity, low voltage Italy		

The Life Cycle Assessment (LCA) on which this Product Environmental Profile (PEP) is based has been carried out in accordance with the criteria defined in PCR-ed4-FR-2021 09 06 of the PEP ecopassport® program. Calculations were performed using openLCA version 2.4 and the Ecoinvent v3.11 database. The applied methodology complies with the EN 15804+A2 standard and is based on the EF 3.1 approach. The 0/0 method was applied to assess the impact of biogenic climate change. Since no specific PCR exists for this product family, PSR-0016 is used as the reference for defining certain scenarios across the various life-cycle stages. Data collection is based on the reference year 2024.

**ADDITIONAL ENVIRONMENTAL INFORMATION**

Manufacturing	Produced in an ISO 14001 certified plant in Italy. Components come from Europe. Raw materials and their transport to the production site, various production phases of the finished product, and waste treatment were considered.
Distribution	Product and packaging delivery: 2.450 km by truck (B2B / B2C)
Installation	<p>The installation of the tank is carried out by a qualified professional, positioning it on a level and suitable reinforced concrete base; under no circumstances should the tank be supported by the piping.</p> <p>The installation process does not require any additional materials or components, as it is limited to simply placing the tank on the existing base, without elements that would generate additional environmental flows. Handling during installation is performed using standard lifting equipment available on-site or provided by the professional (e.g., forklift, factory crane, or a simple hand truck for smaller volumes). As these tools are not dedicated exclusively to the product, they have been assessed as not relevant.</p> <p>Consequently, this phase includes the end-of-life treatment of the packaging according to the scenario described in §3.5.3.2 of PSR-0016-ed2-EN-2023 06 06 standards.</p>
Use	<p>The use stage of pressurized tanks involves no energy consumption once the unit is installed. The operation of compressed air tanks includes periodic inspections to verify functionality and structural integrity, performed by certified specialists.</p> <p>The LCA model also integrates a "worst case" scenario, assuming that at each functionality check (every 3 years) the safety valve must be replaced. For this scenario, transport of personnel is considered over 100 km (as per paragraph 3.5.5 of the PCR) for periodic functionality checks and structural integrity checks.</p> <p>Additionally, transport for material disposal is considered, assuming a 100 km distance to the landfill (as per paragraph 3.5.5 of PSR-0016-ed2-EN-2023 06 06).</p>

**End of life**

To model the end-of-life phase of the product, the ICV Ecosystem modules were used, according to the scenario described in §3.5.5 of PSR-0016-ed2-EN-2023-06-06. Therefore, the data on transport, recycling, recovery, incineration, and landfill rates provided by this source were applied, in accordance with the specific guidelines for electrical and electronic products. As per sectoral conventions, the end-of-life transport phase was modeled assuming a 100 km truck transport.

**ENVIRONMENTAL IMPACTS**

The environmental impact assessment covers the following phases of the product life cycle: Manufacturing (A1-A3), Distribution (A4), Installation (A5), Use (B1-B7), End of life (C1-C4), and Benefits and loads beyond the system boundaries (D).

To ensure consistency of the results of environmental impacts between the functional unit (to store 1 liter of pressurized fluid) and the reference product (500 liters pressurized tank), the PEP presents the environmental impacts of the manufacturing, distribution, installation, use (module B1 to B7), end-of-life and benefits and loads beyond the system boundaries stages as follows:

*Environmental impacts from the PEP (for 1 liter) = Environmental impacts of the reference product / Storage capacity of the reference product*

In order to develop the PEP, the impacts were related to a storage capacity of 1 liter of pressurized fluid. The impact of the life cycle stages of the installed product has to be calculated by the user of the declaration by multiplying the impact considered by the storage capacity of the product.

In the case of pressurized tanks, the impacts associated with maintenance operations must be considered under Module B2. However, the impacts for modules B1, B3, B4, B5, B6, and B7 are equal to zero.

The following table presents the environmental impact results at the functional unit level (impacts per liter corresponding to the functional unit).

**ENVIRONMENTAL IMPACT INDICATORS PER LITER CORRESPONDING TO THE FUNCTIONAL UNIT**

MANDATORY ENVIRONMENTAL IMPACT INDICATORS								
IMPACT CATEGORY	UNIT OF MEASUREMENT	TOTAL (modulo D excluded)	MANUFACTURING A1-A3	DISTRIBUTION A4	INSTALLATION A5	USE B1-B7	END OF LIFE C1-C4	MODULE D
Global Warming Potential - biogenic (GWP-biogenic)	<i>kg CO<sub>2</sub>-eq</i>	4,01E-03	3,36E-03	2,12E-05	4,84E-04	1,44E-04	7,40E-07	-2,22E-03
Global Warming Potential - fossil fuels (GWP-fossil)	<i>kg CO<sub>2</sub>-eq</i>	8,72E-01	7,26E-01	9,94E-02	2,08E-03	4,11E-02	3,42E-03	-3,89E-01
Global Warming Potential - land use and land use change (GWP-luluc)	<i>kg CO<sub>2</sub>-eq</i>	7,57E-04	6,26E-04	3,35E-05	1,43E-06	9,48E-05	1,15E-06	-2,05E-04
Global Warming Potential - total (GWP-total)	<i>kg CO<sub>2</sub>-eq</i>	8,77E-01	7,30E-01	9,94E-02	2,57E-03	4,14E-02	3,43E-03	-3,89E-01
Abiotic depletion potential - fossil resources (ADPF)	<i>MJ</i>	1,03E+01	8,28E+00	1,41E+00	1,58E-02	5,33E-01	4,86E-02	-3,97E+00
Abiotic depletion potential - non-fossil resources (ADPE)	<i>kg Sb-eq</i>	6,92E-05	2,82E-05	3,49E-07	4,20E-09	4,07E-05	1,23E-08	-2,94E-06
Acidification potential, Accumulated Exceedance (AP)	<i>mol H<sup>+</sup>-eq</i>	6,43E-03	3,30E-03	2,13E-04	5,02E-06	2,90E-03	7,35E-06	-1,62E-03
Depletion potential of the stratospheric ozone layer (ODP)	<i>kg CFC-11-eq</i>	9,19E-09	6,54E-09	2,17E-09	1,87E-11	3,90E-10	7,46E-11	-1,60E-09
Eutrophication potential - freshwater (EP-freshwater)	<i>kg P-eq</i>	6,41E-04	3,99E-04	6,90E-06	3,18E-07	2,35E-04	2,38E-07	-2,11E-04
Eutrophication potential - marine (EP-marine)	<i>kg N-eq</i>	9,59E-04	7,46E-04	5,14E-05	4,41E-06	1,55E-04	1,77E-06	-3,55E-04
Eutrophication potential - terrestrial (EP-terrestrial)	<i>mol N-eq</i>	1,06E-02	7,88E-03	5,55E-04	1,81E-05	2,12E-03	1,91E-05	-3,83E-03
Photochemical Ozone Creation Potential (POCP)	<i>kg NMVOC-eq</i>	3,50E-03	2,55E-03	3,38E-04	6,30E-06	5,95E-04	1,17E-05	-1,26E-03
Water (user) deprivation potential (WDP)	<i>m<sup>3</sup> world-eq deprived</i>	3,51E-01	3,05E-01	7,49E-03	4,73E-04	3,80E-02	2,58E-04	-1,09E-01

**ENVIRONMENTAL IMPACT INDICATORS PER LITER CORRESPONDING TO THE FUNCTIONAL UNIT**

**OPTIONAL ENVIRONMENTAL IMPACT INDICATORS**

IMPACT CATEGORY	UNIT OF MEASUREMENT	TOTAL (modulo D excluded)	MANUFACTURING A1-A3	DISTRIBUTION A4	INSTALLATION A5	USE B1-B7	END OF LIFE C1-C4	MODULE D
Ecotoxicity (fresh water)	<i>CTUe</i>	1,50E+01	1,05E+01	1,90E-01	4,34E-03	4,30E+00	6,53E-03	-2,39E+00
Human toxicity, non-carcinogenic effects	<i>CTUh</i>	4,29E-08	1,12E-08	8,91E-10	2,42E-11	3,08E-08	3,07E-11	-3,21E-09
Human toxicity, carcinogenic effects	<i>CTUh</i>	1,32E-09	9,69E-10	1,67E-11	4,93E-13	3,29E-10	5,76E-13	-4,64E-10
Ionizing radiation, human health	<i>kBq U235-eq</i>	4,43E-02	3,74E-02	1,71E-03	9,33E-05	5,03E-03	5,88E-05	-8,09E-03
Emission of fine particles	<i>Disease incidence</i>	7,92E-08	6,45E-08	7,45E-09	8,92E-11	6,89E-09	2,57E-10	-3,84E-08
Impacts related to land use/soil quality	<i>Dimensionless</i>	8,40E+00	6,55E+00	8,48E-01	1,19E-02	9,59E-01	2,92E-02	-1,32E+00

**INDICATORS DESCRIBING OUTPUT FLOWS**

IMPACT CATEGORY	UNIT OF MEASUREMENT	TOTAL (modulo D excluded)	MANUFACTURING A1-A3	DISTRIBUTION A4	INSTALLATION A5	USE B1-B7	END OF LIFE C1-C4	MODULE D
Components for re-use (CRU)	<i>kg</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported electrical energy (EEE)	<i>MJ</i>	1,27E-02	0,00E+00	0,00E+00	1,27E-02	0,00E+00	0,00E+00	0,00E+00
Exported thermal energy (EET)	<i>MJ</i>	2,54E-02	0,00E+00	0,00E+00	2,54E-02	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery (MER)	<i>kg</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling (MFR)	<i>kg</i>	5,92E-02	5,92E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

**ENVIRONMENTAL IMPACT INDICATORS PER LITER CORRESPONDING TO THE FUNCTIONAL UNIT**

**INVENTORY FLOW INDICATORS**

IMPACT CATEGORY	UNIT OF MEASUREMENT	TOTAL (modulo D excluded)	MANUFACTURING A1-A3	DISTRIBUTION A4	INSTALLATION A5	USE B1-B7	END OF LIFE C1-C4	MODULE D
Total use of non renewable primary energy resources (PENRT )	<i>MJ</i>	1,03E+01	8,28E+00	1,41E+00	1,58E-02	5,33E-01	4,87E-02	-3,97E+00
Total use of renewable primary energy resources (PERT)	<i>MJ</i>	1,66E+00	1,49E+00	2,33E-02	1,01E-03	1,39E-01	8,03E-04	-3,80E-01
Use of net fresh water (FW)	<i>m3</i>	7,87E-03	6,51E-03	1,73E-04	-2,51E-05*	1,20E-03	5,95E-06	-2,29E-03
Use of non renewable primary energy resources used as energy carrier (PENRE)	<i>MJ</i>	1,03E+01	8,28E+00	1,41E+00	2,72E-03	5,33E-01	4,87E-02	-3,97E+00
Use of non renewable primary energy resources used as raw materials (PENRM)	<i>MJ</i>	1,49E-02	1,91E-03	0,00E+00	1,30E-02	0,00E+00	0,00E+00	0,00E+00
Use of non renewable secondary fuels (NRSF)	<i>MJ</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable primary energy resources used as energy carrier (PERE)	<i>MJ</i>	1,00E+00	9,53E-01	2,33E-02	-1,15E-01	1,39E-01	8,03E-04	-3,80E-01
Use of renewable primary energy resources used as raw materials (PERM)	<i>MJ</i>	6,56E-01	5,40E-01	0,00E+00	1,16E-01	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels (RSF)	<i>MJ</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of secondary materials (SM)	<i>kg</i>	4,10E-04	4,10E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

*\*\*The negative sign arises from the use of the following datasets: 'treatment of waste polyethylene, sanitary landfill | waste polyethylene | Cutoff, S' and 'treatment of waste wood, untreated, sanitary landfill | waste wood, untreated | Cutoff, S*

**ENVIRONMENTAL IMPACT INDICATORS PER LITER CORRESPONDING TO THE FUNCTIONAL UNIT**

**INDICATORS DESCRIBING CATEGORIES OF WASTE**

IMPACT CATEGORY	UNIT OF MEASUREMENT	TOTAL (modulo D excluded)	MANUFACTURING A1-A3	DISTRIBUTION A4	INSTALLATION A5	USE B1-B7	END OF LIFE C1-C4	MODULE D
Hazardous waste disposed (HWD )	kg	2,24E-01	2,10E-01	1,45E-03	6,85E-05	1,26E-02	5,01E-05	-1,24E-01
Non hazardous waste disposed (NHWD)	kg	1,52E+00	1,40E+00	1,55E-02	2,86E-02	6,99E-02	5,35E-04	-3,20E-01
Radioactive waste disposed (RWD)	kg	1,13E-05	9,52E-06	4,21E-07	2,37E-08	1,31E-06	1,45E-08	-2,03E-06

**OTHER INDICATORS**

	UNIT OF MEASUREMENT	TOTAL (modulo D excluded)
Biogenic carbon content of product	kg	0
Biogenic carbon content of packaging	kg	4,86E+00

**ENVIRONMENTAL IMPACT INDICATORS PER LITER CORRESPONDING TO THE FUNCTIONAL UNIT**

**MANDATORY ENVIRONMENTAL IMPACT INDICATORS**

IMPACT CATEGORY	UNIT OF MEASUREMENT	USE PHASE	B1	B2	B3	B4	B5	B6	B7
Global Warming Potential - biogenic (GWP-biogenic)	<i>kg CO2-eq</i>	1,44E-04	0,00E+00	1,44E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Global Warming Potential - fossil fuels (GWP-fossil)	<i>kg CO2-eq</i>	4,11E-02	0,00E+00	4,11E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Global Warming Potential - land use and land use change (GWP-luluc)	<i>kg CO2-eq</i>	9,48E-05	0,00E+00	9,48E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Global Warming Potential - total (GWP-total)	<i>kg CO2-eq</i>	4,14E-02	0,00E+00	4,14E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Abiotic depletion potential - fossil resources (ADPF)	<i>MJ</i>	5,33E-01	0,00E+00	5,33E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Abiotic depletion potential - non-fossil resources (ADPE)	<i>kg Sb-eq</i>	4,07E-05	0,00E+00	4,07E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Acidification potential, Accumulated Exceedance (AP)	<i>mol H+-eq</i>	2,90E-03	0,00E+00	2,90E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Depletion potential of the stratospheric ozone layer (ODP)	<i>kg CFC-11-eq</i>	3,90E-10	0,00E+00	3,90E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Eutrophication potential - freshwater (EP-freshwater)	<i>kg P-eq</i>	2,35E-04	0,00E+00	2,35E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Eutrophication potential - marine (EP-marine)	<i>kg N-eq</i>	1,55E-04	0,00E+00	1,55E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Eutrophication potential - terrestrial (EP-terrestrial)	<i>mol N-eq</i>	2,12E-03	0,00E+00	2,12E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Photochemical Ozone Creation Potential (POCP)	<i>kg NMVOC-eq</i>	5,95E-04	0,00E+00	5,95E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Water (user) deprivation potential (WDP)	<i>m3 world-eq deprived</i>	3,80E-02	0,00E+00	3,80E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

**ENVIRONMENTAL IMPACT INDICATORS PER LITER CORRESPONDING TO THE FUNCTIONAL UNIT**

**OPTIONAL ENVIRONMENTAL IMPACT INDICATORS**

IMPACT CATEGORY	UNIT OF MEASUREMENT	USE PHASE	B1	B2	B3	B4	B5	B6	B7
Ecotoxicity (fresh water)	<i>CTUe</i>	4,30E+00	0,00E+00	4,30E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Human toxicity, non-carcinogenic effects	<i>CTUh</i>	3,08E-08	0,00E+00	3,08E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Human toxicity, carcinogenic effects	<i>CTUh</i>	3,29E-10	0,00E+00	3,29E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Ionizing radiation, human health	<i>kBq U235-eq</i>	5,03E-03	0,00E+00	5,03E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Emission of fine particles	<i>Disease incidence</i>	6,89E-09	0,00E+00	6,89E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Impacts related to land use/soil quality	<i>Dimensionless</i>	9,59E-01	0,00E+00	9,59E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

**INDICATORS DESCRIBING OUTPUT FLOWS**

IMPACT CATEGORY	UNIT OF MEASUREMENT	USE PHASE	B1	B2	B3	B4	B5	B6	B7
Components for re-use (CRU)	<i>kg</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported electrical energy (EEE)	<i>MJ</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported thermal energy (EET)	<i>MJ</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery (MER)	<i>kg</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling (MFR)	<i>kg</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

**ENVIRONMENTAL IMPACT INDICATORS PER LITER CORRESPONDING TO THE FUNCTIONAL UNIT**

**INVENTORY FLOW INDICATORS**

IMPACT CATEGORY	UNIT OF MEASUREMENT	USE PHASE	B1	B2	B3	B4	B5	B6	B7
Total use of non renewable primary energy resources (PENRT)	<i>MJ</i>	5,33E-01	0,00E+00	5,33E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources (PERT)	<i>MJ</i>	1,39E-01	0,00E+00	1,39E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water (FW)	<i>m3</i>	1,20E-03	0,00E+00	1,20E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non renewable primary energy resources used as energy carrier (PENRE)	<i>MJ</i>	5,33E-01	0,00E+00	5,33E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non renewable primary energy resources used as raw materials (PENRM)	<i>MJ</i>	0,00E+00	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 (NRSF)	<i>MJ</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable primary energy resources used as energy carrier (PERE)	<i>MJ</i>	1,39E-01	0,00E+00	1,39E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable primary energy resources used as raw materials (PERM)	<i>MJ</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels (RSF)	<i>MJ</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of secondary materials (SM)	<i>kg</i>	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

**INDICATORS DESCRIBING CATEGORIES OF WASTE**

IMPACT CATEGORY	UNIT OF MEASUREMENT	USE PHASE	B1	B2	B3	B4	B5	B6	B7
Hazardous waste disposed (HWD)	<i>kg</i>	1,26E-02	0,00E+00	1,26E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non hazardous waste disposed (NHWD)	<i>kg</i>	6,99E-02	0,00E+00	6,99E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Radioactive waste disposed (RWD)	<i>kg</i>	1,31E-06	0,00E+00	1,31E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

**EXTRAPOLATION RULES**

The extrapolation coefficients are given for the environmental impact of the functional unit, namely the storage of 1 liter of pressurized fluid. For each stage of the life cycle, the environmental impacts of the product under consideration are calculated by multiplying the impacts of the declaration corresponding to the reference product - at the functional unit level - by the extrapolation coefficient. The "Total" column has to be calculated by adding the environmental impacts of each stage of the life cycle.

The homogeneous family includes tanks designed for the storage of pressurized fluids such as air, nitrogen, or water, made of carbon steel and available in painted or galvanized versions. The compressed air tanks are manufactured in compliance with Directive 2014/68/EU (P.E.D.) and bear the CE marking under the supervision of the Notified Body, according to the applicable regulations. They are intended to contain Group 2 fluids, which include all fluids not listed in Group 1 of the PED Directive and are therefore considered non-hazardous, such as air, nitrogen, or water.

The operating temperature ranges from -10 °C to +100 °C.

The models included are: ARIA COMPRESSA SPVS; ARIA COMPRESSA PED VT 11-15 BAR ; ARIA COMPRESSA PED OR/ VT; AUTOCLAVE ZINCATA Z PED VT/OR ; SERBATOIO ZINCATO Z SC VT/OR; VASO A MEMBRANA VERNICIATO PED VT/OR; VASO A MEMBRANA ZINCATO PED VT/ OR. They differ in finish (galvanized or painted), orientation (vertical VT or horizontal OR), pressure rating (in bar) and volumes (from 24 L to 5.000 L).

The excluded models are: stainless steel models (AUTOCLAVE INOX X PED VT/OR, SERBATOIO INOX X SC VT).

**MANUFACTURING STAGE**

$$\begin{aligned}
 \text{Coefficient on the functional unit scale} &= \frac{\text{Total mass of the product considered + Mass of packaging of the product considered (kg)}}{\text{Total mass of the reference product + Mass of packaging of the reference product (kg)}} * \frac{\text{Total storage capacity of the pressurized fluid of the reference product (L)}}{\text{Total storage capacity of the pressurized fluid of the product considered (L)}}
 \end{aligned}$$

**DISTIBUTION STAGE**

$$\begin{aligned}
 \text{Coefficient on the functional unit scale} &= \frac{\text{Total mass of the product considered + Mass of packaging of the product considered (kg)}}{\text{Total mass of the reference product + Mass of packaging of the reference product (kg)}} * \frac{\text{Total storage capacity of the pressurized fluid of the reference product (L)}}{\text{Total storage capacity of the pressurized fluid of the product considered (L)}}
 \end{aligned}$$

**INSTALLATION STAGE**

$$\text{Coefficient on the functional unit scale} = \frac{\text{Mass of packaging of the product considered (kg)}}{\text{Mass of packaging of the reference product (kg)}} * \frac{\text{Total storage capacity of the pressurized fluid of the reference product (L)}}{\text{Total storage capacity of the pressurized fluid of the product considered (L)}}$$

**USE STAGE (MODULE B2)**

Module B1, B3, B4, B5, B6 not applicable.

$$\text{Coefficient on the functional unit scale} = 1 * \frac{\text{Total storage capacity of the pressurized fluid of the reference product (L)}}{\text{Total storage capacity of the pressurized fluid of the product considered (L)}}$$

**END OF LIFE STAGE**

$$\text{Coefficient on the functional unit scale} = \frac{\text{Total mass of the product considered (kg)}}{\text{Total mass of the reference product (kg)}} * \frac{\text{Total storage capacity of the pressurized fluid of the reference product (L)}}{\text{Total storage capacity of the pressurized fluid of the product considered (L)}}$$

**BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES STAGE**

$$\text{Coefficient on the functional unit scale} = \frac{\text{Total mass of the product considered + Mass of packaging of the product considered (kg)}}{\text{Total mass of the reference product + Mass of packaging of the reference product (kg)}} * \frac{\text{Total storage capacity of the pressurized fluid of the reference product (L)}}{\text{Total storage capacity of the pressurized fluid of the product considered (L)}}$$

COEFFICIENT ON THE FUNCTIONAL UNIT SCALE										
Homogeneous Family Products		Volume (L)	Product weight including packaging (kg)	Mass packaging (kg)	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C3	MODULE D
3053171990001	ARIA C.SA Z CE11	100	46,238	4,081	2,128	2,128	1,888	5,000	2,154	2,128
3053171990022	ARIA C.SA Z CE11	200	62,857	5,548	1,446	1,446	1,283	2,500	1,464	1,446
3053171990003	ARIA C.SA Z CE11	270	70,100	6,187	1,195	1,195	1,060	1,852	1,210	1,195
3053171990004	ARIA C.SA Z CE11	500	145,778	12,867	1,342	1,342	1,190	1,000	1,358	1,342
3053171990025	ARIA C.SA Z CE11	710	208,527	18,405	1,352	1,352	1,199	0,704	1,368	1,352
3053171990026	ARIA C.SA Z CE11	900	229,465	20,253	1,173	1,173	1,041	0,556	1,188	1,173
3053171990034	ARIA C.SA Z CE15	270	113,535	10,021	1,935	1,935	1,717	1,852	1,959	1,935
3053171990014	ARIA C.SA Z CE15	500	184,828	16,314	1,701	1,701	1,509	1,000	1,722	1,701
3053172240001	ARIA C.SA V CE11	100	44,646	3,941	2,055	2,055	1,823	5,000	2,080	2,055
3053172240022	ARIA C.SA V CE11	200	53,879	4,756	1,240	1,240	1,100	2,500	1,255	1,240
3053172240003	ARIA C.SA V CE11	270	89,806	7,927	1,531	1,531	1,358	1,852	1,550	1,531
3053172240004	ARIA C.SA V CE11	500	123,000	10,856	1,132	1,132	1,004	1,000	1,146	1,132
3053172240025	ARIA C.SA V CE11	710	187,151	16,519	1,213	1,213	1,076	0,704	1,228	1,213
3053172240026	ARIA C.SA V CE11	900	221,420	19,543	1,132	1,132	1,004	0,556	1,146	1,132
3053172240034	ARIA C.SA V CE15	270	103,971	9,177	1,772	1,772	1,572	1,852	1,794	1,772
3053172240014	ARIA C.SA V CE15	500	179,418	15,836	1,651	1,651	1,465	1,000	1,672	1,651
3053171990101	ARIA C.SA Z PED11	100	46,600	4,113	2,144	2,144	1,902	5,000	2,171	2,144
3053171990102	ARIA C.SA Z PED11	200	63,220	5,580	1,455	1,455	1,290	2,500	1,473	1,455
3053171990103	ARIA C.SA Z PED11	270	89,272	7,879	1,522	1,522	1,350	1,852	1,540	1,522
<b>3053171990104</b>	<b>ARIA C.SA Z PED11</b>	<b>500</b>	<b>108,653</b>	<b>10,810</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>
3053171990105	ARIA C.SA Z PED11	710	193,179	17,051	1,252	1,252	1,111	0,704	1,268	1,252
3053171990106	ARIA C.SA Z PED11	900	214,000	18,888	1,094	1,094	0,971	0,556	1,108	1,094
3053171990107	ARIA C.SA Z PED15	200	73,472	6,485	1,691	1,691	1,500	2,500	1,712	1,691
3053171990108	ARIA C.SA Z PED15	270	102,830	9,076	1,753	1,753	1,555	1,852	1,774	1,753
3053171990109	ARIA C.SA Z PED15	500	174,232	15,378	1,604	1,604	1,423	1,000	1,624	1,604
3053172240110	ARIA C.SA V PED11	100	45,048	3,976	2,073	2,073	1,839	5,000	2,099	2,073
3053172240111	ARIA C.SA V PED11	200	60,632	5,352	1,395	1,395	1,238	2,500	1,412	1,395
3053172240112	ARIA C.SA V PED11	270	86,082	7,598	1,467	1,467	1,302	1,852	1,485	1,467
3053172240113	ARIA C.SA V PED11	500	129,622	11,441	1,193	1,193	1,058	1,000	1,208	1,193
3053172240114	ARIA C.SA V PED11	710	186,423	16,454	1,208	1,208	1,072	0,704	1,223	1,208
3053172240115	ARIA C.SA V PED11	900	206,092	18,190	1,054	1,054	0,935	0,556	1,067	1,054
3053172240116	ARIA C.SA V PED15	200	70,884	6,256	1,631	1,631	1,447	2,500	1,651	1,631

COEFFICIENT ON THE FUNCTIONAL UNIT SCALE										
Homogeneous Family Products		Volume (L)	Product weight including packaging (kg)	Mass packaging (kg)	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C3	MODULE D
3053172240117	ARIA C.SA V PED15	270	99,640	8,795	1,698	1,698	1,507	1,852	1,719	1,698
3053172240118	ARIA C.SA V PED15	500	168,816	14,900	1,554	1,554	1,378	1,000	1,573	1,554
3054171990001	ARIA C.SA Z PED8	1500	292,008	25,774	0,896	0,896	0,795	0,333	0,907	0,896
3054171990002	ARIA C.SA Z PED8	2000	383,530	33,852	0,882	0,882	0,783	0,250	0,893	0,882
3054171990054	ARIA C.SA Z PED8	3000	486,760	42,963	0,747	0,747	0,662	0,167	0,756	0,747
3054171990005	ARIA C.SA Z PED8	4000	425,991	37,600	0,490	0,490	0,435	0,125	0,496	0,490
3054171990006	ARIA C.SA Z PED8	5000	519,204	45,827	0,478	0,478	0,424	0,100	0,484	0,478
3054171990067	ARIA C.SA Z PED12	1000	269,963	23,828	1,242	1,242	1,102	0,500	1,258	1,242
3054171990011	ARIA C.SA Z PED12	1500	411,712	36,339	1,263	1,263	1,121	0,333	1,279	1,263
3054171990012	ARIA C.SA Z PED12	2000	560,456	49,468	1,290	1,290	1,144	0,250	1,306	1,290
3054171990013	ARIA C.SA Z PED12	2500	652,696	57,609	1,201	1,201	1,066	0,200	1,216	1,201
3054171990064	ARIA C.SA Z PED12	3000	699,445	61,736	1,073	1,073	0,952	0,167	1,086	1,073
3054171990015	ARIA C.SA Z PED12	4000	570,736	50,375	0,657	0,657	0,583	0,125	0,665	0,657
3054171990016	ARIA C.SA Z PED12	5000	700,122	61,795	0,644	0,644	0,572	0,100	0,652	0,644
3054171990167	ARIA C.SA Z PED15	1000	320,539	28,292	1,475	1,475	1,309	0,500	1,493	1,475
3054171990118	ARIA C.SA Z PED15	1500	463,778	40,935	1,423	1,423	1,262	0,333	1,441	1,423
3054171990168	ARIA C.SA Z PED15	2000	612,316	54,045	1,409	1,409	1,250	0,250	1,426	1,409
3054172240001	ARIA C.SA V PED8	1500	279,790	24,695	0,858	0,858	0,761	0,333	0,869	0,858
3054172240002	ARIA C.SA V PED8	2000	369,026	32,572	0,849	0,849	0,753	0,250	0,860	0,849
3054172240054	ARIA C.SA V PED8	3000	469,858	41,471	0,721	0,721	0,639	0,167	0,730	0,721
3054172240005	ARIA C.SA V PED8	4000	405,017	35,748	0,466	0,466	0,413	0,125	0,472	0,466
3054172240006	ARIA C.SA V PED8	5000	495,041	43,694	0,456	0,456	0,404	0,100	0,461	0,456
3054172240067	ARIA C.SA V PED12	1000	262,029	23,128	1,206	1,206	1,070	0,500	1,221	1,206
3054172240011	ARIA C.SA V PED12	1500	398,986	35,216	1,224	1,224	1,086	0,333	1,239	1,224
3054172240012	ARIA C.SA V PED12	2000	544,476	48,057	1,253	1,253	1,111	0,250	1,268	1,253
3054172240013	ARIA C.SA V PED12	2500	636,458	56,176	1,172	1,172	1,039	0,200	1,186	1,172
3054172240064	ARIA C.SA V PED12	3000	681,318	60,136	1,045	1,045	0,927	0,167	1,058	1,045
3054172240015	ARIA C.SA V PED12	4000	548,291	48,394	0,631	0,631	0,560	0,125	0,639	0,631
3054172240016	ARIA C.SA V PED12	5000	674,115	59,500	0,620	0,620	0,550	0,100	0,628	0,620
3054172240064	ARIA C.SA V PED12	3000	681,318	60,136	1,045	1,045	0,927	0,167	1,058	1,045
3054172240015	ARIA C.SA V PED12	4000	548,291	48,394	0,631	0,631	0,560	0,125	0,639	0,631
3054172240016	ARIA C.SA V PED12	5000	674,115	59,500	0,620	0,620	0,550	0,100	0,628	0,620

COEFFICIENT ON THE FUNCTIONAL UNIT SCALE										
Homogeneous Family Products		Volume (L)	Product weight including packaging (kg)	Mass packaging (kg)	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C3	MODULE D
3054172240151	ARIA C.SA V PED15	1000	312,605	27,592	1,439	1,439	1,276	0,500	1,456	1,439
3054172240102	ARIA C.SA V PED15	1500	451,052	39,811	1,384	1,384	1,228	0,333	1,401	1,384
3054172240152	ARIA C.SA V PED15	2000	596,336	52,635	1,372	1,372	1,217	0,250	1,389	1,372
3054170990001	ARIA C.SA Z PED8 OR	1500	297,835	26,288	0,914	0,914	0,811	0,333	0,925	0,914
3054170990002	ARIA C.SA Z PED8 OR	2000	375,757	33,166	0,865	0,865	0,767	0,250	0,875	0,865
3054170990004	ARIA C.SA Z PED8 OR	3000	508,034	44,841	0,779	0,779	0,691	0,167	0,789	0,779
3054170990005	ARIA C.SA Z PED8 OR	4000	447,259	39,477	0,515	0,515	0,456	0,125	0,521	0,515
3054170990006	ARIA C.SA Z PED8 OR	5000	540,472	47,704	0,497	0,497	0,441	0,100	0,504	0,497
3053170990101	ARIA C.SA Z PED11 OR	100	38,024	3,356	1,750	1,750	1,552	5,000	1,772	1,750
3053170990102	ARIA C.SA Z PED11 OR	200	54,630	4,822	1,257	1,257	1,115	2,500	1,273	1,257
3053170990103	ARIA C.SA Z PED11 OR	270	81,774	7,218	1,394	1,394	1,236	1,852	1,411	1,394
3053170990104	ARIA C.SA Z PED11 OR	500	125,048	11,037	1,151	1,151	1,021	1,000	1,165	1,151
3053170990105	ARIA C.SA Z PED11 OR	710	179,294	15,825	1,162	1,162	1,031	0,704	1,177	1,162
3053170990106	ARIA C.SA Z PED11 OR	900	200,252	17,675	1,024	1,024	0,908	0,556	1,037	1,024
3054170990611	ARIA C.SA Z PED12 OR	1000	258,117	22,782	1,188	1,188	1,054	0,500	1,203	1,188
3054170990011	ARIA C.SA Z PED12 OR	1500	421,060	37,164	1,292	1,292	1,146	0,333	1,308	1,292
3054170990012	ARIA C.SA Z PED12 OR	2000	552,683	48,782	1,272	1,272	1,128	0,250	1,288	1,272
3054170990013	ARIA C.SA Z PED12 OR	2500	673,554	59,450	1,240	1,240	1,100	0,200	1,255	1,240
3054170990020	ARIA C.SA Z PED12 OR	3000	726,914	64,160	1,115	1,115	0,989	0,167	1,129	1,115
3054170990015	ARIA C.SA Z PED12 OR	4000	726,914	64,160	0,836	0,836	0,742	0,125	0,847	0,836
3054170990016	ARIA C.SA Z PED12 OR	5000	719,565	63,511	0,662	0,662	0,588	0,100	0,671	0,662
3053170990107	ARIA C.SA Z PED15 OR	200	64,882	5,727	1,493	1,493	1,324	2,500	1,511	1,493
3053170990108	ARIA C.SA Z PED15 OR	270	95,332	8,414	1,625	1,625	1,441	1,852	1,645	1,625
3053170990109	ARIA C.SA Z PED15 OR	500	164,242	14,497	1,512	1,512	1,341	1,000	1,530	1,512
3054171340001	ARIA C.SA V PED8 OR	1500	287,618	25,386	0,882	0,882	0,783	0,333	0,893	0,882
3054171340002	ARIA C.SA V PED8 OR	2000	363,254	32,062	0,836	0,836	0,741	0,250	0,846	0,836
3054171340054	ARIA C.SA V PED8 OR	3000	490,725	43,313	0,753	0,753	0,668	0,167	0,762	0,753
3054171340005	ARIA C.SA V PED8 OR	4000	426,286	37,626	0,490	0,490	0,435	0,125	0,497	0,490
3054171340006	ARIA C.SA V PED8 OR	5000	516,310	45,571	0,475	0,475	0,422	0,100	0,481	0,475
3053171340110	ARIA C.SA V PED11 OR	100	36,425	3,215	1,676	1,676	1,487	5,000	1,697	1,676
3053171340111	ARIA C.SA V PED11 OR	200	52,059	4,595	1,198	1,198	1,063	2,500	1,213	1,198
3053171340112	ARIA C.SA V PED11 OR	270	78,801	6,955	1,343	1,343	1,192	1,852	1,360	1,343

COEFFICIENT ON THE FUNCTIONAL UNIT SCALE										
Homogeneous Family Products		Volume (L)	Product weight including packaging (kg)	Mass packaging (kg)	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C3	MODULE D
3053171340113	ARIA C.SA V PED11 OR	500	119,639	10,560	1,101	1,101	0,977	1,000	1,115	1,101
3053171340114	ARIA C.SA V PED11 OR	710	172,543	15,229	1,118	1,118	0,992	0,704	1,132	1,118
3053171340115	ARIA C.SA V PED11 OR	900	192,232	16,967	0,983	0,983	0,872	0,556	0,995	0,983
3054171340067	ARIA C.SA V PED12 OR	1000	246,127	21,724	1,133	1,133	1,005	0,500	1,147	1,133
3054171340011	ARIA C.SA V PED12 OR	1500	410,335	36,218	1,259	1,259	1,117	0,333	1,275	1,259
3054171340012	ARIA C.SA V PED12 OR	2000	538,704	47,548	1,240	1,240	1,100	0,250	1,255	1,240
3054171340013	ARIA C.SA V PED12 OR	2500	657,317	58,017	1,210	1,210	1,073	0,200	1,225	1,210
3054171340064	ARIA C.SA V PED12 OR	3000	702,553	62,010	1,078	1,078	0,956	0,167	1,091	1,078
3054171340015	ARIA C.SA V PED12 OR	4000	569,560	50,271	0,655	0,655	0,581	0,125	0,663	0,655
3054171340016	ARIA C.SA V PED12 OR	5000	695,384	61,377	0,640	0,640	0,568	0,100	0,648	0,640
3053171340116	ARIA C.SA V PED15 OR	200	62,311	5,500	1,434	1,434	1,272	2,500	1,452	1,434
3053171340117	ARIA C.SA V PED15 OR	270	92,359	8,152	1,574	1,574	1,397	1,852	1,594	1,574
3053171340118	ARIA C.SA V PED15 OR	500	158,833	14,019	1,462	1,462	1,297	1,000	1,480	1,462
3051171990009	AUTOCL. Z PED8 VT	100	41,229	3,639	1,897	1,897	1,683	5,000	1,921	1,897
3051171990010	AUTOCL. Z PED8 VT	200	44,600	3,937	1,026	1,026	0,910	2,500	1,039	1,026
3051171990011	AUTOCL. Z PED8 VT	300	72,428	6,393	1,111	1,111	0,986	1,667	1,125	1,111
3051171990012	AUTOCL. Z PED8 VT	500	105,035	9,271	0,967	0,967	0,858	1,000	0,979	0,967
3051171990013	AUTOCL. Z PED8 VT	750	170,672	15,064	1,047	1,047	0,929	0,667	1,060	1,047
3051171990014	AUTOCL. Z PED8 VT	1000	205,626	18,149	0,946	0,946	0,839	0,500	0,958	0,946
3051171990015	AUTOCL. Z PED8	1500	278,189	24,554	0,853	0,853	0,757	0,333	0,864	0,853
3051171990016	AUTOCL. Z PED8	2000	383,064	33,811	0,881	0,881	0,782	0,250	0,892	0,881
3051171990017	AUTOCL. Z PED8	2500	456,412	40,285	0,840	0,840	0,745	0,200	0,851	0,840
3051171990068	AUTOCL. Z PED8	3000	488,701	43,135	0,750	0,750	0,665	0,167	0,759	0,750
3051171990019	AUTOCL. Z PED8	4000	428,496	37,821	0,493	0,493	0,437	0,125	0,499	0,493
3051171990020	AUTOCL. Z PED8	5000	521,709	46,048	0,480	0,480	0,426	0,100	0,486	0,480
3051172020007	AUTOCL. Z PED8	5000	936,464	82,656	0,862	0,862	0,765	0,100	0,873	0,862
3051171990040	AUTOCL. Z PED11.76 VT	100	47,629	4,204	2,192	2,192	1,944	5,000	2,219	2,192
3051171990041	AUTOCL. Z PED11.76 VT	200	57,849	5,106	1,331	1,331	1,181	2,500	1,348	1,331
3051171990042	AUTOCL. Z PED11.76 VT	300	82,860	7,314	1,271	1,271	1,128	1,667	1,287	1,271
3051171990043	AUTOCL. Z PED11.76 VT	500	141,793	12,515	1,305	1,305	1,158	1,000	1,321	1,305
3051171990077	AUTOCL. Z PED12	750	221,462	19,547	1,359	1,359	1,205	0,667	1,376	1,359
3051171990078	AUTOCL. Z PED12	1000	271,664	23,978	1,250	1,250	1,109	0,500	1,266	1,250

COEFFICIENT ON THE FUNCTIONAL UNIT SCALE										
Homogeneous Family Products		Volume (L)	Product weight including packaging (kg)	Mass packaging (kg)	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C3	MODULE D
3051171990029	AUTOCL. Z PED12	1500	414,914	36,622	1,273	1,273	1,129	0,333	1,289	1,273
3051171990030	AUTOCL. Z PED12	2000	560,405	49,463	1,289	1,289	1,144	0,250	1,306	1,289
3051171990031	AUTOCL. Z PED12	2500	654,751	57,791	1,205	1,205	1,069	0,200	1,220	1,205
3051171990082	AUTOCL. Z PED12	3000	701,364	61,905	1,076	1,076	0,954	0,167	1,089	1,076
3051171990033	AUTOCL. Z PED12 VT	4000	567,859	50,121	0,653	0,653	0,580	0,125	0,661	0,653
3051171990035	AUTOCL. Z PED12 VT	5000	697,258	61,543	0,642	0,642	0,569	0,100	0,650	0,642
3051172020008	AUTOCL. Z PED12	4000	582,859	51,445	0,671	0,671	0,595	0,125	0,679	0,671
3051170990009	AUTOCL. Z PED8 OR	100	43,149	3,808	1,986	1,986	1,762	5,000	2,010	1,986
3051170990010	AUTOCL. Z PED8 OR	200	60,253	5,318	1,386	1,386	1,230	2,500	1,404	1,386
3051170990011	AUTOCL. Z PED8 OR	300	76,470	6,750	1,173	1,173	1,041	1,667	1,188	1,173
3051170990012	AUTOCL. Z PED8 OR	500	109,795	9,691	1,011	1,011	0,896	1,000	1,023	1,011
3051170990013	AUTOCL. Z PED8 OR	750	162,208	14,317	0,995	0,995	0,883	0,667	1,008	0,995
3051170990014	AUTOCL. Z PED8 OR	1000	197,855	17,463	0,910	0,910	0,808	0,500	0,922	0,910
3051170990015	AUTOCL. Z PED8 OR	1500	308,360	27,217	0,946	0,946	0,839	0,333	0,958	0,946
3051170990016	AUTOCL. Z PED8 OR	2000	387,149	34,171	0,891	0,891	0,790	0,250	0,902	0,891
3051170990068	AUTOCL. Z PED8 OR	3000	530,889	46,858	0,814	0,814	0,722	0,167	0,825	0,814
3051170990019	AUTOCL. Z PED8 OR	4000	474,900	41,916	0,546	0,546	0,485	0,125	0,553	0,546
3051170990020	AUTOCL. Z PED8 OR	5000	568,680	50,194	0,523	0,523	0,464	0,100	0,530	0,523
3051170990021	AUTOCL. Z PED11.76 OR	100	43,299	3,822	1,993	1,993	1,768	5,000	2,017	1,993
3051170990022	AUTOCL. Z PED11.76 OR	200	60,256	5,318	1,386	1,386	1,230	2,500	1,404	1,386
3051170990023	AUTOCL. Z PED11.76 OR	300	86,902	7,670	1,333	1,333	1,183	1,667	1,350	1,333
3051170990024	AUTOCL. Z PED11.76 OR	500	146,553	12,935	1,349	1,349	1,197	1,000	1,366	1,349
3051170990077	AUTOCL. Z PED12 OR	750	212,998	18,800	1,307	1,307	1,159	0,667	1,323	1,307
3051170990078	AUTOCL. Z PED12 OR	1000	263,893	23,292	1,214	1,214	1,077	0,500	1,230	1,214
3051170990040	AUTOCL. Z PED12 OR	1500	428,064	37,782	1,313	1,313	1,165	0,333	1,330	1,313
3051170990030	AUTOCL. Z PED12 OR	2000	565,007	49,870	1,300	1,300	1,153	0,250	1,316	1,300
3051170990041	AUTOCL. Z PED12 OR	2500	696,365	61,464	1,282	1,282	1,137	0,200	1,298	1,282
3051170990082	AUTOCL. Z PED12 OR	3000	743,243	65,601	1,140	1,140	1,011	0,167	1,154	1,140
3051170990042	AUTOCL. Z PED12 OR	4000	619,545	54,683	0,713	0,713	0,632	0,125	0,722	0,713
3051170990044	AUTOCL. Z PED12 OR	5000	748,931	66,103	0,689	0,689	0,612	0,100	0,698	0,689
3251161990001	SERB. Z SC	50	11,019	0,973	1,014	1,014	0,900	10,000	1,027	1,014
3251161990002	SERB. Z SC	100	21,000	1,854	0,966	0,966	0,857	5,000	0,978	0,966

COEFFICIENT ON THE FUNCTIONAL UNIT SCALE										
Homogeneous Family Products		Volume (L)	Product weight including packaging (kg)	Mass packaging (kg)	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C3	MODULE D
3251161990003	SERB. Z SC	200	37,000	3,266	0,851	0,851	0,755	2,500	0,862	0,851
3251161990004	SERB. Z SC	300	43,000	3,795	0,660	0,660	0,585	1,667	0,668	0,660
3251161990005	SERB. Z SC	500	68,087	6,010	0,627	0,627	0,556	1,000	0,634	0,627
3251161990006	SERB. Z SC	750	95,800	8,456	0,588	0,588	0,521	0,667	0,595	0,588
3251161990007	SERB. Z SC	1000	126,000	11,121	0,580	0,580	0,514	0,500	0,587	0,580
3251161990008	SERB. Z SC	1500	213,562	18,850	0,655	0,655	0,581	0,333	0,663	0,655
3251161990009	SERB. Z SC	2000	260,342	22,979	0,599	0,599	0,531	0,250	0,606	0,599
3251160990001	SERB. Z SC OR	100	24,825	2,191	1,142	1,142	1,013	5,000	1,157	1,142
3251160990002	SERB. Z SC OR	200	28,680	2,531	0,660	0,660	0,585	2,500	0,668	0,660
3251160990003	SERB. Z SC OR	300	37,180	3,282	0,570	0,570	0,506	1,667	0,577	0,570
3251160990004	SERB. Z SC OR	500	66,090	5,833	0,608	0,608	0,540	1,000	0,616	0,608
3251160990005	SERB. Z SC OR	750	97,600	8,615	0,599	0,599	0,531	0,667	0,606	0,599
3251160990006	SERB. Z SC OR	1000	125,100	11,042	0,576	0,576	0,511	0,500	0,583	0,576
3251160990007	SERB. Z SC OR	1500	212,760	18,779	0,653	0,653	0,579	0,333	0,661	0,653
3251160990008	SERB. Z SC OR	2000	258,390	22,806	0,595	0,595	0,527	0,250	0,602	0,595
3941164010001	VASO ESPANSIONE Z	30	5,600	0,494	0,859	0,859	0,762	16,667	0,870	0,859
3941164010002	VASO ESPANSIONE Z	50	9,000	0,794	0,828	0,828	0,735	10,000	0,839	0,828
3901190610001	VASO MEMB. V PED	24	3,600	0,318	0,690	0,690	0,612	20,833	0,699	0,690
3911162241007	VASO MEMB. V PED	50	12,000	1,059	1,104	1,104	0,980	10,000	1,118	1,104
3911162241008	VASO MEMB. V PED	80	18,400	1,624	1,058	1,058	0,939	6,250	1,072	1,058
3911162241003	VASO MEMB. V PED	100	21,500	1,898	0,989	0,989	0,878	5,000	1,002	0,989
3911162241004	VASO MEMB. V PED	200	57,000	5,031	1,312	1,312	1,164	2,500	1,328	1,312
3911162241011	VASO MEMB. V PED VT	300	83,000	7,326	1,273	1,273	1,129	1,667	1,289	1,273
3911162241012	VASO MEMB. V PED VT	500	131,970	11,648	1,215	1,215	1,078	1,000	1,230	1,215
3911161341007	VASO MEMB. V PED OR	50	9,296	0,820	0,856	0,856	0,759	10,000	0,866	0,856
3911161341008	VASO MEMB. V PED OR	80	31,499	2,780	1,812	1,812	1,607	6,250	1,834	1,812
3911161341003	VASO MEMB. V PED OR	100	31,499	2,780	1,450	1,450	1,286	5,000	1,468	1,450
3911161341004	VASO MEMB. V PED OR	200	50,000	4,413	1,150	1,150	1,021	2,500	1,165	1,150
3911161341011	VASO MEMB. V PED OR	300	89,240	7,877	1,369	1,369	1,214	1,667	1,386	1,369
3911161341012	VASO MEMB. V PED OR	500	131,450	11,602	1,210	1,210	1,073	1,000	1,225	1,210
3911161991007	VASO MEMB. Z PED	50	12,800	1,130	1,178	1,178	1,045	10,000	1,193	1,178
3911161991008	VASO MEMB. Z PED	80	34,008	3,002	1,956	1,956	1,735	6,250	1,981	1,956

**COEFFICIENT ON THE FUNCTIONAL UNIT SCALE**

Homogeneous Family Products		Volume (L)	Product weight including packaging (kg)	Mass packaging (kg)	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C3	MODULE D
3911161991003	VASO MEMB. Z PED	100	34,008	3,002	1,565	1,565	1,388	5,000	1,584	1,565
3911161991004	VASO MEMB. Z PED	200	61,800	5,455	1,422	1,422	1,261	2,500	1,440	1,422
3911161991011	VASO MEMB. Z PED VT	300	85,800	7,573	1,316	1,316	1,168	1,667	1,333	1,316
3911161991012	VASO MEMB. Z PED VT	500	137,900	12,172	1,269	1,269	1,126	1,000	1,285	1,269
3901190600001	VASO MEMB. Z PED	24	4,600	0,406	0,882	0,882	0,782	20,833	0,893	0,882
3911160991007	VASO MEMB. Z PED OR	50	10,097	0,891	0,929	0,929	0,824	10,000	0,941	0,929
3911160991008	VASO MEMB. Z PED OR	80	33,625	2,968	1,934	1,934	1,716	6,250	1,958	1,934
3911160991003	VASO MEMB. Z PED OR	100	33,625	2,968	1,547	1,547	1,373	5,000	1,567	1,547
3911160991004	VASO MEMB. Z PED OR	200	26,980	2,381	0,621	0,621	0,551	2,500	0,629	0,621
3911160991011	VASO MEMB. Z PED OR	300	93,120	8,219	1,428	1,428	1,267	1,667	1,446	1,428
3911160991012	VASO MEMB. Z PED OR	500	137,380	12,126	1,264	1,264	1,122	1,000	1,280	1,264

Compressed air receivers and Pressure vessel



**8,77E-01** kg CO<sub>2</sub> eq.  
Global Warming\*



**1,19E+01** MJ  
Total use of primary energy\*



**6,92E-05** kg Sb-eq.  
Depletion of abiotic resources\*



**7,87E-03** m<sup>3</sup>  
Net use of fresh water\*

\*Results based on the lifecycle analysis per liter corresponding to the functional unit



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