

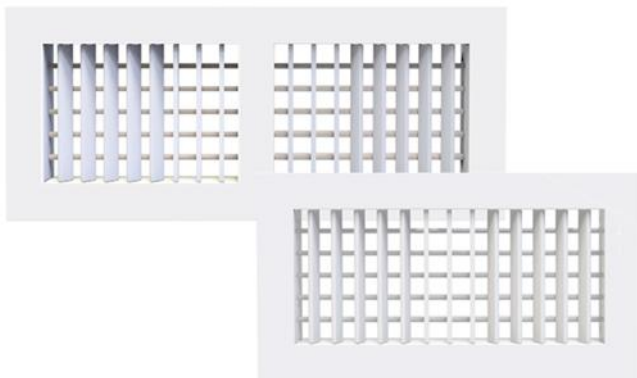
Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

BPAP Delivery/intake grille in anti-condensation white plastic ABS from Tecnosystemi S.p.A Benefit Company

EPD of multiple products based on a representative product (Delivery/intake grille in anti-condensation white plastic ABS 300X150).



Programme	The International EPD® System, www.environdec.com
Programme operator	EPD International AB
Type of EPD	EPD of multiple products based on a representative product
EPD registration number	EPD-IES-0026651
Version date	2025/11/10
Validity date	2030/11/09

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com

GENERAL INFORMATION

Programme	The International EPD® System
Address	EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden
Website	www.environdec.com
E-mail	info@environdec.com

Product Category Rules (PCR)

- CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
- Product Category Rules (PCR): PCR 2019:14 v2.0.1

PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair: Rob Rouwette (chair), Noa Meron (co-chair). The review panel may be contacted via the Secretariat www.environdec.com/contact

- c-PCR, if applicable: Ventilation components (c-PCR under PCR 2019:14) (Adopted from EPD Norway)

Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

- EPD verification by accredited certification body
- Third-party verification: TÜV Italia SRL, Viale Fulvio Testi 280/6, 20126 Milano
- The certification body is accredited by: ACCREDIA, No. 00077

Procedure for follow-up of data during EPD validity involves third party verifier:

Yes ☐ No ☒

Technical support for LCA study:

Soin Company srls
 Via Orgnani 1
 33034 Fagagna (UD)
www.soincompany.com

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: TECNOSYSTEMI SPA SOCIETÀ BENEFIT

Address: via dell'Industria 2/4 - 31029 - Vittorio Veneto (TV)

Contact: Antonello Palamin, Quality Management antonello.palamin@tecnosystemi.com

Contact and LCA practitioner: Lisa Suanno (lisa.suanno@soincompany.com), Bernardo Mobilio Rodriguez (bernardo.rodriguez@soincompany.com)

Description of the organization

Tecnosystemi is a Benefit Company. It was officially established in 1992 and began its history by selling a small range of air conditioning accessories. In 1996 it also became a production company, thus beginning a virtuous path that is still evolving today.

The turning point came in 2013, with the definitive move of the headquarters to Vittorio Veneto and the transfer of ownership to the Anna Munari and Giorgio Rigoni family. The passion for their work and the vision of a company of the future led the owners to invest in technological means, transforming a small Veneto company into a large enterprise. With the construction of the third warehouse in 2019, Tecnosystemi expanded to cover an area of 33,000 m² and a covered area of 22,000 m².

The Company designs and manufactures a diversified range of accessories for air conditioning, ventilation and air exchange, always aiming at a strategy of diversification to meet the needs of different customers in Italy and abroad. Thanks to research and the recognised value of internal production know-how, Tecnosystemi continuously invests in new production technologies.



Product-related or management system-related certifications



PRODUCT INFORMATION

Product name

BPAP DELIVERY/INTAKE GRILLE IN ANTI-CONDENSATION WHITE PLASTIC ABS

Product identification and description

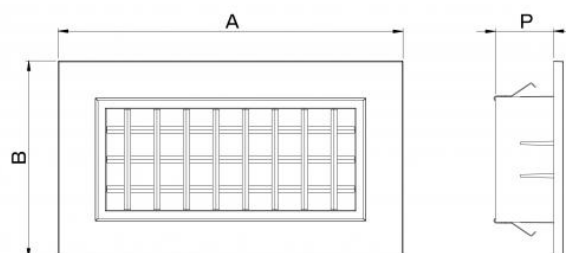
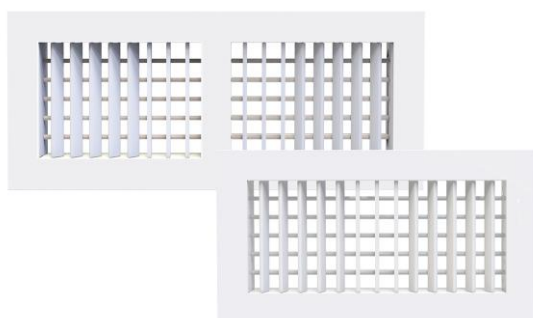
The products covered in this LCA study are part of the PROJECT WIND line, which includes a wide range of ventilation, air conditioning, and air exchange accessories, manufactured at the plant located at Via dell'Industria 2/4 – Plant, in Vittorio Veneto (TV).

The anti-condensation supply and return vents from Tecnosystemi's PROJECT WIND line are available in a wide range of sizes (lengths and cross-sections) and configurations to meet specific air flow, velocity, and installation requirements in various architectural contexts, always ensuring high technical performance and optimal air distribution.

The following table shows a description of the components of the product.

Component	Description
ABS - Acrylonitrile Butadiene Styrene	The intake and outlet grilles, including the frame and drop-shaped louvres, are made of anti-condensation and UVA-resistant ABS plastic, ensuring durability, efficient air distribution, and easy adjustment.
STAINLESS STEEL CLIPS	Internal fasteners and mounting clips may include steel parts, ensuring strength and a secure fit within air conditioning systems.

The product chosen as a reference is the anti-condensate ABS delivery/intake grille, with code PWD100014 (DELIVERY/INTAKE GRILLE IN ANTI-CONDENSATION WHITE PLASTIC ABS 300 x150), as it is the best-selling during the study reference period. All environmental performance indicators have been calculated taking it as a reference.



Product	CODE	A [mm]	B [mm]	P [mm]	Air flow range [m3/hr]	Weight [kg]
ABS delivery/intake grille	PWD100014	334	184	40	200-500	0.444
Technical features	- Material: Anti-condensate ABS - Colour: white					

UN CPC Code

369 Other plastics products

CONTENT DECLARATION

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
ABS	0.442	0.0 %	0.000
Steel Clips	0.002	0.0 %	0.000
TOTAL	0.444	0.0 %	0.000

Packaging materials	Weight. kg	Weight-% (versus the product)	Weight biogenic carbon. kg C/kg
Individual wrap in LDPE	0.0020	0,45%	0.0000
Corrugated cardboard	0.0200	4,50%	0.0090
Pallet	0.0007	0,16%	0.0003
LDPE stretch film	0.0010	0,23%	0.0000
PE Angle Trim	0.0040	0,90%	0.0000
TOTAL	0.0277	6,24%	0.0093

The product and relative packaging materials do not include any substance present in the "Candidate list of substances of very high concern for authorization" in percentage greater than 0.1%.

LCA INFORMATION

Declared unit: 1 unit of delivery/intake grille in anti-condensation white plastic ABS

Time representativeness: January 2024 – December 2024

Geographical scope: Italy for all Modules.

Database(s) and LCA software used: Ecoinvent 3.11 – Allocation. cut-off; SimaPro Craft. v. 10.2.0.1
EN 15804 reference package: EF 3.1

Description of system boundaries

Cradle-to-gate with options. modules C1-C4. module D and optional module A5. Module A4 and modules B1-B7 are excluded.

System boundaries include:

- A1 – A3 Raw material extraction and processing; Transport of raw materials to Tecnosystemi plants; Manufacturing of the product (energy and waste); upstream production and transport of packaging for distribution to Tecnosystemi plants;
- A5 – Packaging disposal;
- C1 – Manual disassembly;
- C2 – Transport of waste products to treatment or disposal facilities;
- C3 – Waste processing for reuse. recovery and/or recycling;
- C4 – Final disposal;
- D – Estimate of the potential benefits beyond the system boundaries related to materials recovery/recycling at the end of life.

System diagram

A1-A3	- PRODUCTION OR RAW MATERIALS/COMPONENTS - TRANSPORT TO MANUFACTURING SITE - PRODUCT MANUFACTURING - PRODUCTION OF PACKAGING FOR DISTRIBUTION - TRANSPORT OF PACKAGING FOR DISTRIBUTION TO MANUFACTURING SITE
A5	MANUAL INSTALLATION PACKAGING END OF LIFE
C	MANUAL DISMANTLING (C1) TRANSPORT (C2) PREPARATION FOR REUSE/RECYCLING (C3) DISPOSAL (C4)
D	BENEFITS FROM MATERIALS RECOVERY/RECYCLING

Allocation methods

Allocation procedures were used for energy consumption (electricity and natural gas) and waste produced. based on the material processed (kg) at Tecnosystemi Plant in January-December 2024. Additional mass-based allocation procedures were applied for the packaging used to transport ABS, metal clip and PE angle trim to the facility (paper

sack, cardboard boxes and metal boxes) and for distribution packaging.

Cut off rules

The cut-offs were applied to:

- water consumption used in the plants and wastewater treatment.
- consumption of auxiliary materials and products for cleaning the machines.

Consistent with what is indicated in the PCR, finally, the following were not considered:

- business trips of company employees;
- home-work mobility of employees;
- research and development activities.

Recycled materials

The product does not contain recycled materials.

Electricity mix

To model the electricity used in the Plants, the emission factor for renewable hydroelectric production with storage, certified by Guarantees of Origin (GO)¹ and the emission factor for on-site photovoltaic generation were used. For Plant 1 the mix is 71% from GO and 29% from photovoltaics.

The Global Warming Potential (GWP - GHG) indicator associated is 0.0292 kg CO₂-eq per kilowatt-hour (kWh) for Plant 1.

End of life scenario (C1-C4)

In the end-of-life stage, the following aspects were considered:

- Transport to the final waste treatment/disposal site (C2). As indicated in the PCR, 80 km between the destination and the landfill/recycling centre, and 130 km for incineration, due to the lack of specific data;
- Treatment and disposal of waste (C3-C4). Waste management has been modelled using different scenario for ABS and steel.

Material/Component	End of Life Stage (C1-C4) Scenario
ABS	• 71.5% recycling (based on "Rapporto Rifiuti Speciali Edizione 2025 – ISPRA") • 28.5% incineration
Steel (Steel Clips)	• 88.8% recycling (based on "Rapporto Rifiuti Speciali Edizione 2025 – ISPRA") • 11.2% landfill

No impacts were assigned to the disassembly phase (C1) as it mainly consists of manual operations with negligible environmental effects.

Benefits and loads beyond the system boundary (module D)

The benefits from materials recovery (ABS and steel of clips) were considered.

Summary of data quality assessment

The following table provides a summary of the data quality assessment for the datasets that contribute to at least 80% of the results for each of the declared environmental impact indicators.

¹ Assuming the same energy mix as in 2024.

Data Quality Aspect	Details / Description
Data Collection for raw data	1st January 2024 – 31 st December 2024
Sites Used	via dell'Industria 2/4 – Plant 1. in Vittorio Veneto (TV)
Geography	The product is manufactured in the Italy and commercialized In Europe (mainly in Italy)
Technology	The product is composed of several components. Some of these are manufactured in Plant 1 using extrusion processes (ABS plastic core) after purchasing the ABS raw material. The STEEL CLIPS are produced by external suppliers.
LCI/LCA database	Ecoinvent 3.11 – Allocation. cut-off; SimaPro Craft. v. 10.2.0.1
EPD used	-
Data Quality Scheme	Data Quality Rating-DQR criteria and data quality level according to PEF method (COMMISSION RECOMMENDATION (EU) 2021/2279 of 15 December 2021)
Use of Fair data with more than 30 % of a core impact	No fair data used
Use of poor data	No poor data used
Other information	The quality assessment covers data that together contribute to at least 80% of the results of each of the declared environmental impact indicators, corresponding to the processes included in modules A1-A3. The total DQR of Modules A1-A3 is 2.2 (Good quality).

The data quality information presented in this EPD has been prepared and reported in accordance with the requirements set forth in UNI EN 15941:2024 and complies with the data quality criteria specified in EN 15804:2012+A2:2019.

As required by PCR, the following table provides information on the quality of the data used for processes contributing more than 10% to the overall GWP-GHG indicator value for the Module A1-A3. No single primary data contributes more than 10% to the overall GWP-GHG.

Process	Source Type	Source	Reference year ²	Data category	Share of primary data. of GWP-GHG results for A1-A3
Production of ABS (raw material)	Database	Ecoinvent 3.11	2024	Secondary	0%
Generation of electricity used in manufacturing site	Database	Ecoinvent 3.11	2024	Primary	0.6%
Natural gas used in manufacturing site	Database	Ecoinvent 3.11	2024	Primary	1.2%
Transport of raw material to manufacturing site	Database	Ecoinvent 3.11	2024	Primary	0.1%
Transport of packaging for distribution to manufacturing site	Database	Ecoinvent 3.11	2024	Primary	0.01%
Total					1.9%

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

² Refers to the last year of validity of the dataset.

Modules declared. geographical scope. share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results)

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction / demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	●	●	●	ND	●	ND	ND	ND	ND	ND	ND	ND	●	●	●	●	●
Geography	IT	IT	IT	-	IT	-	-	-	-	-	-	-	-	IT	IT	IT	IT
Specific data used	1.9%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	-56.8%/+32.1%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	Not applicable			-	-	-	-	-	-	-	-	-	-	-	-	-	-

RESULTS OF THE ENVIRONMENTAL PERFORMANCE INDICATORS

The environmental performance results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

Mandatory impact category indicators according to EN 15804

Results per 1 unit of product								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
GWP total	kg CO ₂ eq.	2.18E+00	1.43E-02	0.00E+00	1.03E-02	3.40E-03	3.00E-01	-1.41E+00
GWP fossil	kg CO ₂ eq.	2.17E+00	5.60E-03	0.00E+00	1.03E-02	3.38E-03	3.00E-01	-1.41E+00
GWP biogenic	kg CO ₂ eq.	-2.31E-03	8.74E-03	0.00E+00	3.56E-06	1.59E-05	2.14E-05	-6.81E-03
GWP luluc	kg CO ₂ eq.	2.84E-04	5.38E-07	0.00E+00	1.65E-06	1.07E-06	2.33E-06	-1.20E-04
ODP	kg CFC 11 eq.	6.13E-09	2.23E-11	0.00E+00	1.08E-10	7.46E-11	9.51E-11	-2.41E-09
AP	mol H ⁺ eq.	7.36E-03	7.37E-06	0.00E+00	1.66E-05	1.09E-05	6.85E-05	-4.92E-03
EP-freshwater	kg P eq.	1.63E-04	1.90E-07	0.00E+00	3.46E-07	2.73E-07	9.86E-07	-1.68E-04
EP-marine	kg N eq.	1.31E-03	3.41E-06	0.00E+00	5.76E-06	3.53E-06	3.89E-05	-8.57E-04
EP-terrestrial	mol N eq.	1.25E-02	3.01E-05	0.00E+00	6.17E-05	3.83E-05	3.32E-04	-8.27E-03
POCP	kg NMVOC eq.	5.96E-03	1.12E-05	0.00E+00	2.49E-05	1.59E-05	8.34E-05	-3.84E-03
ADP-minerals and metals*	kg Sb eq.	2.46E-06	6.35E-09	0.00E+00	1.67E-08	1.10E-08	1.45E-08	-3.12E-06
ADP-fossil*	MJ	4.43E+01	1.85E-02	0.00E+00	7.04E-02	4.86E-02	5.64E-02	-2.82E+01
WDP*	m ³	1.55E+00	-5.35E-06	0.00E+00	2.42E-04	2.99E-04	9.71E-03	-7.33E-01
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential. Accumulated Exceedance; EP-freshwater = Eutrophication potential. fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential. fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential. Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals and metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential. deprivation-weighted water consumption							

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Additional mandatory and voluntary impact category indicators

Results per 1 unit of product								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
GWP-GHG	kg CO ₂ eq.	2.18E+00	6.34E-03	0.00E+00	1.03E-02	3.38E-03	3.00E-01	-1.41E+00

Additional voluntary environmental indicators are not declared in this EPD.

Resource use indicators

Results per 1 unit of product								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
PERE	MJ	1.78E+00	6.14E-04	0.00E+00	1.12E-03	2.16E-03	2.21E-03	-4.10E-01
PERM	MJ	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.14E+00	6.14E-04	0.00E+00	1.12E-03	2.16E-03	2.21E-03	-4.10E-01
PENRE	MJ	3.20E+01	1.96E-02	0.00E+00	7.49E-02	5.18E-02	6.12E-02	-3.04E+01
PENRM	MJ	1.59E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	4.78E+01	1.96E-02	0.00E+00	7.49E-02	5.18E-02	6.12E-02	-3.04E+01
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	3.60E-02	1.71E-06	0.00E+00	8.33E-06	9.09E-06	3.38E-04	-1.74E-02
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water							

Waste indicators

Results per 1 unit of product								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.82E-05	1.29E-07	0.00E+00	4.84E-07	3.22E-07	6.99E-07	-2.61E-05
Non-hazardous waste disposed	kg	3.87E-01	1.45E-03	0.00E+00	3.74E-03	2.13E-03	3.42E-03	-3.32E-02
Radioactive waste disposed	kg	3.49E-06	1.39E-08	0.00E+00	2.07E-08	2.27E-08	2.43E-08	-3.08E-06

Output flow indicators

Results per 1 unit of product								
Indicator	Unit	A1-A3	A5	C1	C2	C3	C4	D
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
Material for recycling	kg	3.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-01	0.00E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-01	0.00E+00

ADDITIONAL LCA RESULTS

Variability analysis

As indicated by PCR, the range of variation in modules A-C more than 10%. is given below for each mandatory indicator. These variations are mainly due to differences in weight between the various products in the family.

Indicator	Variation of results	
Climate change - Total	-56.7%	+32.1%
Climate change - Fossil	-56.8%	+32.1%
Climate change - Biogenic	-45.2%	+51.7%
Climate change - Land use and LU change	-34.8%	+53.5%
Ozone depletion	-47.1%	+33.8%
Acidification	-56.2%	+32.1%
Eutrophication, freshwater	-47.8%	+32.3%
Eutrophication, marine	-55.4%	+32.9%
Eutrophication, terrestrial	-55.4%	+32.6%
Photochemical ozone formation	-55.8%	+32.2%
Resource use, minerals and metals	-38.4%	+26.5%
Resource use, fossils	-56.9%	+32.1%
WDP	-57.7%	+32.2%
GWP-GHG	-56.7%	+32.1%
PERE	-58.4%	+25.8%
PERM	-35.3%	+68.9%
PERT	-54.3%	+34.8%
PENRE	-56.5%	+32.0%
PENRM	-58.0%	+32.1%
PENRT	-57.0%	+32.1%
FW	-57.5%	+32.3%
HWD	-43.7%	+29.5%
NHWD	-55.6%	+34.6%

RWD	-40.1%	+35.1%
MFR	-56.4%	+34.6%
EE	-58.5%	+32.1%
ET	-56.7%	+32.1%

End of Life scenarios

As required by the PCR the impacts associated with different waste management scenarios are reported below: 100% landfilling, 100% recycling, and 100% incineration. None of these scenarios are realistic, because the product end-of-life is typically carried out through different methods and some components cannot be feasibly recycled.

End of Life scenarios (Module C) results

Indicator	Unit	100% recycling			100% incineration			100% landfill		
		C2	C3	C4	C2	C3	C4	C2	C3	C4
GWP total	kg CO2 eq	6.76E-03	3.87E-04	0.00E+00	1.10E-02	0.00E+00	1.05E+00	6.76E-03	0.00E+00	4.08E-02
GWP fossil	kg CO2 eq	6.76E-03	3.68E-04	00E+00	1.10E-02	0.00E+00	1.05E+00	6.76E-03	0.00E+00	4.08E-02
GWP biogenic	kg CO2 eq	4.63E-06	1.92E-05	00E+00	7.53E-06	0.00E+00	1.06E-04	4.63E-06	0.00E+00	2.13E-05
GWP luluc	kg CO2 eq	2.24E-06	5.01E-08	00E+00	3.64E-06	0.00E+00	8.25E-06	2.24E-06	0.00E+00	2.97E-06
ODP	kg CFC11 eq	1.47E-10	9.18E-12	0.00E+00	2.40E-10	0.00E+00	3.34E-10	1.47E-10	0.00E+00	1.23E-10
AP	mol H+ eq	2.17E-05	1.23E-06	0.00E+00	3.53E-05	0.00E+00	2.40E-04	2.17E-05	0.00E+00	3.52E-05
EP-freshwater	kg P eq	4.61E-07	8.46E-08	0.00E+00	7.50E-07	0.00E+00	3.49E-06	4.61E-07	0.00E+00	5.13E-07
EP-marine	kg N eq	7.31E-06	2.24E-07	0.00E+00	1.19E-05	0.00E+00	1.37E-04	7.31E-06	0.00E+00	9.07E-04
EP-terrestrial	mol N eq	7.95E-05	2.33E-06	0.00E+00	1.29E-04	0.00E+00	1.16E-03	7.95E-05	0.00E+00	1.43E-04
POCP	kg NMVOC eq	3.29E-05	9.66E-07	0.00E+00	5.35E-05	0.00E+00	2.93E-04	3.29E-05	0.00E+00	5.90E-05
ADP-minerals and metals	kg Sb eq	2.28E-08	7.05E-10	0.00E+00	3.70E-08	0.00E+00	5.09E-08	2.28E-08	0.00E+00	8.97E-09
ADP-fossil	MJ	9.58E-02	6.16E-03	0.00E+00	1.56E-01	0.00E+00	1.98E-01	9.58E-02	0.00E+00	1.08E-01
WDP	m3 depriv.	3.72E-04	1.79E-04	0.00E+00	6.04E-04	0.00E+00	3.41E-02	3.72E-04	0.00E+00	-7.04E-02

ADDITIONAL ENVIRONMENTAL AND SOCIAL INFORMATION

Two photovoltaic systems with a capacity of 1.172 kWp (Plant 1) and 427 kWp (Plant 2) are installed on the two Tecnosystemi plants, covering a significant percentage of the company's electricity consumption.



Always focused to sustainability issues in their most complete vision (social, environmental and economic), in 2021 Tecnosystemi marks a new beginning by becoming a **Benefit Company**, thus rewriting its corporate purpose and officially declaring its serious intention to generate a positive impact on the environment and the community, continuing a path that had already begun years earlier.

In 2023, Tecnosystemi carried out a major redevelopment of the areas outside the factories, designing a **real urban forest** signed by an internationally renowned landscape architect, João Ferreira Nunes, who interpreted the Company's vision and turned it into reality: circularity, sustainability, compensation, are the key elements of this project, designed for the entire community and all the people who work in the Company.



ANNEX I. PRODUCTS INCLUDED IN EPD

The following products are included in the scope of this EPD.

PWD100014 delivery/intake grille in anti-condensation white plastic ABS 300x150

PWD100015 delivery/intake grille in anti-condensation white plastic ABS 200x100

PWD100016 delivery/intake grille in anti-condensation white plastic ABS 300x100

PWD100017 delivery/intake grille in anti-condensation white plastic ABS 400x100

PWD100018 delivery/intake grille in anti-condensation white plastic ABS 400x150

Abbreviations

Abbreviation	Definition
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
GO	Guarantee of Origin
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CPC	Central product classification
DQR	Data Quality Rating
PEF	Product Environmental Footprint

References

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- c-PCR NPCR 030:2021 Part B for ventilation components - version 1
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- ISPRA (2025). *Rapporto Rifiuti Speciali Edizione 2025* – RAPPORTI 416/2025 ISPRA.
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