Environmental Product Declaration

Air Fury High Speed Dryer

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Programme operator	EPD International AB	
Geographical scope	Global	
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In accordance with ISO 14025 and EN 15804:2012+A2:2019/AC:2021

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com









ECO PLATFORM

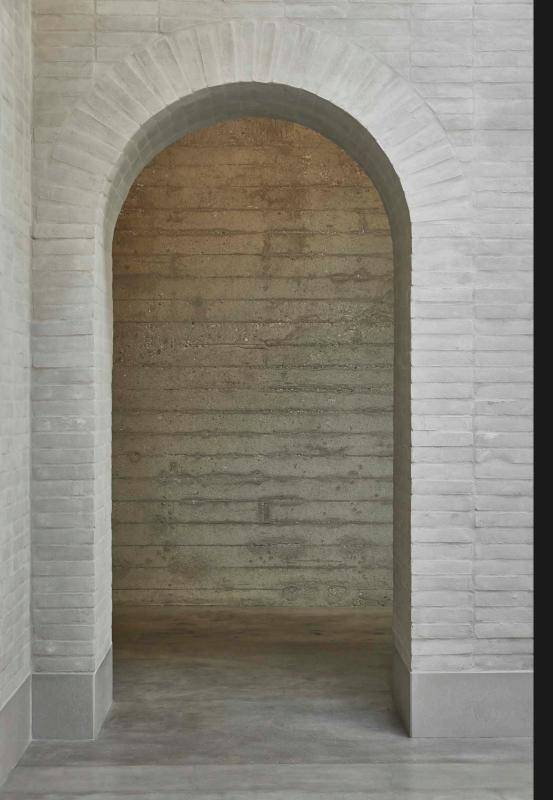


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Programme information

ISO standard ISO 21930 and CEN standard EN 15804 serves as the core Product Category Rules (PCR)

Product Category Rules (PCR): PCR 2019:14 Construction products, version 1.2.5, Construction EN 15804:2012 + A2:2019/AC:2021, Sustainability of Construction Works

PCR review was conducted by: The Technical Committee of the International EPD[®] System. Review chair: Claudia A. Peña, University of Concepción, Chile

The International EPD[®] System: EPD International AB Box 210 60 SE-100 31Stockholm, Sweden, www.environdec.com

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

EPD process certification EPD verification \underline{x}

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

Yes No (

The EPD owner has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804.

Third party verifier: Prof. Ing. Vladimír Kočí, Ph.D., MBA, LCA Studio

Approved by: The International EPD[®] System Technical Committee, supported by the Secretariat

Programme information

EPDs within the same product category but registered in different EPD programmes 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.

Programme and Programme Operator	The International EPD [®] System, www.environdec.com EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden
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How to read this EPD

An Environmental Product Declaration (EPD) is an ISO Type III Environmental Declaration based on ISO 14025 standard. An EPD transparently reports the environmental performance of products or services from a lifecycle perspective. The preparation of an EPD includes different stages, from acquiring raw materials to the end of life of the final product/service. EPDs are based on international standards and consider the entire value chain. Additionally, EPD is a third-party verified document. This EPD includes several sections described below.

General and Program Information

The first part of an EPD has information about the name of the manufacturer and product/ service and other general information such as the validity and expiration dates of the document, the name of the program operator, geographical scope, etc. The second page states the standards followed and gives information about the program operator, thirdparty verifier, etc. The followed Product Category Rule (PCR) is indicated on the second page.

Company and Product Information

Information about the company and the investigated product is given in this section. It summarizes the characteristics of the product provided by the manufacturer. It also includes information about the product such as product composition and packaging.

LCA Information

LCA information is one of the most important parts of the EPD as it describes the functional/declared unit, time representativeness of the study, database(s) and LCA software, along with system boundaries. The table presented in this part has columns for each stage in the life cycle. The considered stages are marked 'X' whereas the ones that are not considered are labeled as 'NR'. Not all EPDs consider the full life cycle assessment for a product's entire life stages. The 'System Boundary' page is also the place where one can find detailed information about the stages and the assumptions made.

LCA Results

The results of the Life Cycle Assessment analysis are presented in table format. The first column in each table indicates the name of the impact category and their measurement units are presented in the second column. These tables show an amount at each life cycle stage to see the impact of different indicators on different stages. Each impact can be understood as what is released through the production of the declared unit of the material in this case, 100,000 drying how much CO2 is released produced during production. indicator mentioned previously.

About the company

All things considered.

We are The Splash Lab. Restrooms are the most often used spaces and the least considered. We're changing that. We have built on our reputation re-interpreting the rituals around hygiene and the restroom experience.

We believe the future is personal. We challenge conventional restroom norms via product innovation to create considered solutions for corporate, commercial, public, hospitality and residential spaces. We use rich raw materials, cutting-edge automation, and modular bathroom systems to powerfully and positively influence the lives of people and the planet.

Sustainability

TSL's award winning products make environmentally conscious restrooms a breeze to specify and a delight to use. For sustainability beyond resourceconsciousness, TSL manufactures products in long-wearing stainless steel and solid surface, keeping them out of landfills for years to come.

Inclusivity

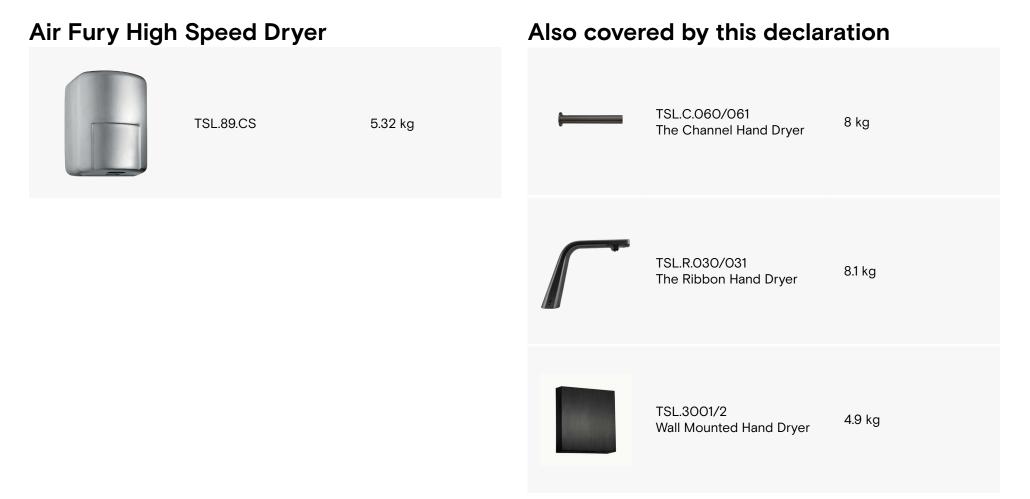
We are committed to making restroom products that foster a safe, harmonious, rejuvenating, and functional space for everyone who passes through.

Holistic Design

From the smallest detail of sensor placement to the high quality finishes that bring together your aesthetic vision, we pledge to consider every human element of interaction with our products.

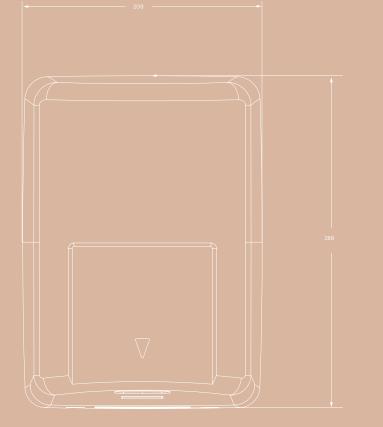
Product information

The Air Fury features include 10–12 second drying time, a blue LED for hand drying range, exceptionally long brush life for ease of maintenance, and variable air speed and heating element. This product is a representative product among the 'hand dryers' category of the manufacturer. Since it bears the highest environmental performance among the group (based on functional unit), the EPD covers the products below as well.



Product information

The product investigated in this EPD is the company's Air Fury High Speed Dryer. The Air Fury features include 10–12 seconds drying time, a blue LED for hand drying range, exceptionally long brush life for ease of maintenance and variable air speed and heating element.



Raw Material

Stainless steel	36.0%
Cable & Electronic components	26.9%
Galvanized steel	16.1%
Plastic parts (PA66GF + PA66, PP, Nylon etc.)	11.1%
AB Corrugated paper	6.2%
Expandable Polyethylene	1.6%
Rubber	0.9%
Cable	0.8%
Others (wire, paper etc.)	<1.2%

Packaging Material

Cardboard	97.3%
Polystyrene & Other plastics	2.7%

Technical data

Consumption	1600W
Drying time	10 - 12 seconds
Weight	5.32K g
Noise level	77dB at 1m
Air speed	75-100m/h
Heating element	900W
Motor type	Brush
Motor speed	12000 - 18000 rpm (adjustable)
Air flow	125.5 m3/h
Sensor range	51mm - 330mm - adjustable. Preset at 180mm
Approvals / insulation	Class 1 earthed, TUGGS approved, ROSH complaint, CE marked in accordance with EEC harmonised documents IPX1 rated.
Warranty	3 years parts from date of purchase. This excludes brushes as they are a wearing part and dependant on usage.

System boundary

A1 Raw material supply

This stage includes raw material extraction and pre-treatment processes before production. Main materials used in the product are stainless and galvanized steel, rubber, polethylene, electronic components, and cables. Their impacts are included at this stage.

A2 Transport

This stage is relevant for the delivery of materials to the production plant. Highway transport is the means of transport at this stage. Transport distances are provided by the manufacturer as average values.

A3 Manufacturing

This stage includes manufacturing related impacts. The following processes are included: Stainless steel is bent and machined to form the body of the dryer and, where applicable to the model, the individual pieces are PVD-coated in a vacuum chamber. The housing is assembled and the internal electrical components and motor are added prior to packaging.

A4 Transport

This stage is relevant for the shipment of the final product. Transportation routes and distances are supplied by the manufacturer.

System boundary

B6 Operational Energy Use

The product consumes electricity as it operates. Considering the product's 1600W consumption, total electricity requirement during the RSL of the product is calculated. It is estimated that the product is used an average of 200 times per day for a 12 second cycle Impact is calculated based on 100,000 dry cycles.

C1 Deconstruction and demolition

This stage includes the impacts during the dismantling of the Air Fury Hand Dryer. Manual dismantling is assumed, thus no energy or additional material are needed for the dismantling of this product.

C2 Transport

This stage includes transportation of the discarded product to a waste processing or landfill area. 50 km transportation distance is assumed.

C3 Waste processing

It is assumed that 90% of the metal parts (steel and aluminium) of the product are recycled, whereas 80% of the plastics parts are incinerated. The rest is assumed landfilled.



Landfilling impacts are calculated at this stage.

D Reuse, recycling, and recovery potential

Metals that are recycled are assumed to substitute the use of virgin metals. In addition, the benefits of heat recovery from the incineration of plastics are included.

LCA information

Functional unit	100,000 drying cycles of Air Fury High Speed Dryer
Geographical scope	The geographical scope of this EPD is Global.
System boundary	Cradle to gate with options, modules C1-C4, module D and with optional module A4.
Database and LCA software	Ecoinvent 3.9.1 and SimaPro 9.5.
Period under review	All primary data collected from The Splash Lab is for the year 2022.
Reference service life	Reference service life of the product is 5 years with an average of 200 drying cycles per day. Total drying cycles during the RSL of the product is 336000 times. 12 seconds for a single drying cycle is assumed.
Allocations	Raw material transportation were weighted according to 2022 transportation figures. In addition, hazardous and non- hazardous waste amounts were also allocated from the 2022 total waste generation.
Cut-off criteria	1% cut-off applied. Data for elementary flows to and from the product system contributing to a minimum of 99% of the declared environmental impacts have been included.
REACH regulation	No substances included in the Candidate List of Substances of Very High Concern for authorization under the REACH regulations are present in this product either above the threshold for registration with the European Chemicals Agency or above 0.1% (wt/wt)
LCA Modelling, Calculation and Data Quality	The results of the LCA with the indicators as per EPD requirement are given in the LCA result tables. EN15804 method is followed. All energy calculations were obtained using Cumulative Energy Demand, Low Heating Values (LHV) methodology, while freshwater use is calculated within selected inventory flows in SimaPro according to the PCR. Corresponding regional regional energy datasets were used for all energy related activities.

	Product stage		Construc		Use stage					End-of-life stage			Benefits and loads				
	Raw materials supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction and demolition	Transport	Waste processing	Disposal	Future reuse, recycling or energy recovery potentials
Module	A1	A2	A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Declared modules	x	х	x	x	ND	ND	ND	ND	ND	ND	x	ND	x	x	x	x	Х
Geography	TW	TW	TW	GLO	_	-	_	-	-	-	GLO	_	GLO	GLO	GLO	GLO	GLO
Specific data used			>90	1%								_	·	·	·		
Variation / products		>10%									-						
Variation / sites		O%									_						

X = Included in LCA, ND= Not declared

LCA results



Indicator	Unit	A1-A3	A4	B6	C1	C2	C3	C4	D
GWP / fossil	kg CO2 eq	4.07E+01	2.40E+00	1.61E+O2	0.00E+00	3.29E-02	1.87E+00	3.04E-02	-6.53E+00
GWP / biogenic	kg CO2 eq	1.48E-01	-2.65E-04	2.79E-01	0.00E+00	1.25E-05	5.14E-05	1.44E-01	1.62E-02
GWP / luluc	kg CO2 eq	7.22E-02	1.75E-03	1.95E-01	0.00E+00	1.69E-05	5.99E-06	5.55E-06	-1.43E-03
GWP / total	kg CO2 eq	4.10E+01	2.40E+00	1.62E+O2	0.00E+00	3.29E-02	1.88E+00	1.74E-01	-6.51E+00
ODP	kg CFC-11 eq	1.15E-06	3.70E-08	8.26E-06	0.00E+00	5.59E-10	5.88E-10	1.75E-10	-1.89E-07
AP	mol H+ eq	4.10E-01	6.08E-02	5.51E-01	0.00E+00	9.01E-05	2.46E-04	5.84E-05	-2.01E-02
EP / freshwater	kg P eq	5.49E-02	9.98E-05	2.73E-02	0.00E+00	2.76E-06	2.69E-06	3.28E-06	-2.05E-03
EP / marine	kg N eq	6.47E-02	1.52E-02	1.21E-01	0.00E+00	2.37E-05	1.22E-04	4.15E-04	-5.05E-03
EP / terrestrial	mol N eq	7.17E-01	1.68E-01	1.39E+OO	0.00E+00	2.45E-04	1.25E-03	2.04E-04	-5.36E-02
POCP	kg NMVOC	2.67E-01	4.61E-02	4.06E-01	0.00E+00	1.30E-04	3.13E-04	1.15E-04	-2.99E-02
**ADPE	kg Sb eq	1.68E-02	3.04E-06	2.29E-03	0.00E+00	9.21E-08	4.24E-08	1.80E-08	-3.32E-06
**ADPF	MJ	5.47E+02	3.05E+01	4.11E+O3	0.00E+00	4.97E-01	1.82E-01	1.54E-01	-7.54E+01
**WDP	m3 depriv.	9.47E+00	8.54E-02	1.16E+01	0.00E+00	2.52E-03	7.46E-03	4.58E-03	-3.14E-01
PM	disease inc.	2.85E-06	9.77E-08	3.37E-06	0.00E+00	3.25E-09	1.28E-09	1.03E-09	-3.60E-07
*IR	kBq U-235 eq	4.12E+00	1.72E-02	1.39E+O2	0.00E+00	4.55E-04	2.42E-04	3.82E-04	-7.50E-02
**HTP / C	CTUh	8.30E-08	1.04E-09	7.31E-08	0.00E+00	1.46E-11	6.34E-11	2.58E-12	-2.77E-08
**HTP / NC	CTUh	1.70E-06	1.14E-08	2.86E-06	0.00E+00	3.60E-10	2.68E-09	3.27E-10	-2.15E-08
**SQP	Pt	3.25E+O2	7.85E+00	2.11E+O3	0.00E+00	5.03E-01	5.37E-02	3.09E-01	-1.10E+01
Acronyms	GWP-total: Climate c transformation, ODP: marine, EP-terrestrial WDP: Water scarcity, HTP-nc: Non-cancer	Ozone layer deple : Eutrophication te PM: Respiratory in	etion, AP: Acidifica errestrial, POCP: P norganics - particu	ation terrestrial an hotochemical oxid ulate matter, IR: lo	d freshwater, EP-fi dation, ADPE: Abio nising radiation, ET	eshwater: Eutrop tic depletion - el	hication freshwate ements, ADPF: Ab	er, EP-marine: Eutr iotic depletion - fo	ophication ossil resources,
Legend	A1: Raw Material Supp Benefits and Loads E			, A4: Transport, C	I: Deconstruction /	Demolition, C2:	Transport, C3: Wa	ste Processing, C	4: Disposal, D:
*Disclaimer 1	This impact category due to possible nucle soil, from radon and t	ear accidents, occ	upational exposur	e nor due to radio	pactive waste disp	osal in undergrou	the nuclear fuel c nd facilities. Poter	ycle. It does not c ntial ionizing radia	onsider effects tion from the
**Disclaimer 2	The results of this en the indicator	vironmental impac	t indicator shall b	e used with care a	as the uncertaintie	s on these result	s are high or as th	ere is limited expe	erienced with
Information on bioge	enic carbon cont	ent accordi	ng to EN 158	304+A2					
Biogenic carbon content	in product	kg C		5.43E-02					
Biogenic carbon content	in packaging	kg C		1.37E-02					

Resource use

Indicator	Unit	A1-A3	A4	B6	C1	C2	C3	C4	D
PERE	MJ	6.49E+01	2.49E-01	1.07E+03	0.00E+00	6.28E-03	0.00E+00	5.43E-03	-1.18E+00
PERM	MJ	0.00E+00							
PERT	MJ	6.49E+01	2.49E-01	1.07E+03	0.00E+00	6.28E-03	0.00E+00	5.43E-03	-1.18E+00
PENRE	MJ	5.47E+O2	3.05E+01	4.11E+03	0.00E+00	4.97E-01	0.00E+00	1.54E-01	-7.54E+O1
PENRM	MJ	0.00E+00							
PENRT	MJ	5.47E+O2	3.05E+01	4.11E+03	0.00E+00	4.97E-01	0.00E+00	1.54E-01	-7.54E+O1
SM	kg	0.00E+00							
RSF	MJ	0.00E+00							
NRSF	MJ	0.00E+00							
FW	m ³	5.48E-01	3.38E-O3	1.10E+00	0.00E+00	1.01E-04	6.31E-04	1.56E-04	-1.94E-02

Acronyms

PERE: Use of renewable primary energy excluding resources used as raw materials, PERM: Use of renewable primary energy resources used as raw materials, PERT: Total use of renewable primary energy, PENRE: Use of non-renewable primary energy excluding 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, SM: Secondary material, RSF: Renewable secondary fuels, NRSF: Non-renewable secondary fuels, FW: Net use of fresh water.

Waste output flows

Indicator	Unit	A1-A3	A4	B6	C1	C2	C3	C4	D
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	6.54E-03	0.00E+00						
RWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-01	0.00E+00	0.00E+00
EE(Electrical)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE(Thermal)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acronyms		ous waste disposed, NH							MFR: Material for

HVVD: Hazardous waste INHWU: INON-NAZAROOUS WASTE DISDOSED, RWU: RADIOACTIVE WASTE DISDOSED, CRU: Components for reu recycling, MER: Materials for energy recovery, EE (Electrical): Exported energy electrical, EE (Thermal): Exported energy thermal.

Climate impact									
Indicator	Unit	A1-A3	A4	B6	C1	C2	C3	C4	D
*GHG-GWP	kg CO ₂ eq	4.11E+O1	2.40E+00	1.62E+02	0.00E+00	3.30E-02	1.87E+00	3.04E-02	-6.54E+00

GWP-GHG = Global Warming Potential total excl. biogenic carbon following IPCC AR5 methodology * The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+AI:2013

References

GPI / General Programme Instructions of the International EPD® System. Version 4.0.

EN ISO 9001 / Quality Management Systems - Requirements

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Ecoinvent / Ecoinvent Centre. www.ecoinvent.org

ISO 14020:2000 / Environmental Labels and Declarations - General principles

EN 15804:2012+A2:2019 / AC:2021 Sustainability of construction works - Environmental Product Declarations - Core rules for the product category of construction products

ISO 14025 / DIN EN ISO 14025:2009-11: Environmental labels and declarations -Type III environmental declarations - Principles and procedures

ISO 14040 / 44 / DIN EN ISO 14040:2006-10. Environmental management - Life cycle assessment - Principles and framework (ISO14040:2006) and Requirements and guidelines (ISO 14044:2006)

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PCR for Construction Products and Construction Services / Prepared by IVL Swedish Environmental Research Institute. Swedish Environmental

Protection Agency. SP Trä. Swedish Wood Preservation Institute. Swedisol. SCDA. Svenskt Limträ AB. SSAB. The International EPD System. 2019:14 Version 1.2.5

The International EPD[®] System / The International EPD[®] System is a programme for type III environmental declarations. maintaining a system to verify and register EPD[®]s as well as keeping a library of EPD[®]s and PCRs in accordance with ISO 14025. www.environdec.com

www.thesplashlab.com

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