

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Grundfos Holding A/S
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-GRU-20250092-CBA1-EN
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Valid to	11/02/2030

TPE2, TPE3 100-180 (Cast iron) Grundfos Holding A/S

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General Information

Grundfos Holding A/S

Programme holder

IBU – Institut Bauen und Umwelt e.V.
 Hegelplatz 1
 10117 Berlin
 Germany

Declaration number

EPD-GRU-20250092-CBA1-EN

This declaration is based on the product category rules:

Pumps for liquids and liquids with solids, 01/08/2021
 (PCR checked and approved by the SVR)

Issue date

12/02/2025

Valid to

11/02/2030

Dipl.-Ing. Hans Peters
 (Chairman of Institut Bauen und Umwelt e.V.)

Florian Pronold
 (Managing Director Institut Bauen und Umwelt e.V.)

TPE2, TPE3 100-180 (Cast iron)

Owner of the declaration

Grundfos Holding A/S
 Poul Due Jensens Vej 7
 8850 Bjerringbro
 Denmark

Declared product / declared unit

One piece of TPE2 or TPE3 100-180 (Cast iron)

Scope:

This declaration applies to 1 piece of TPE2 or TPE3 (Cast iron) pump.

The declaration covers all standard Cast iron TPE2 and TPE3 pump variants with the nominal connection size 100 and maximum head 180 dm:

TPE2 100-180, TPE3 100-180

The product is assembled in Hungary.

The life cycle assessment is based on data collected from the ERP system of the manufacturer, including data from the manufacturing plant.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR	
Independent verification of the declaration and data according to ISO 14025:2011	
<input type="checkbox"/>	internally
<input checked="" type="checkbox"/>	externally

Mrs Kim Allbury,
 (Independent verifier)

Product

Product description/Product definition

TPE2 and TPE3 (TPE2/3) pumps are single-stage, in-line centrifugal pumps mounted with electronically speed-controlled MGE motors (motor efficiency class IE5).

The pumps are designed for systems with variable flow rates. The pumps have integrated speed control for automatic adaptation of performance to the varying flow conditions. The energy consumption is thus kept at a minimum.

The declaration covers all standard Cast iron TPE2 and TPE3 pump variants with the nominal connection size 100 and maximum head 180 dm:

TPE2 100-180, TPE3 100-180

Variants of these pump models were treated together as they physically represent very similar products in terms of materials, weights, and contents of electronics. A representative pump model was applied for assessing the impacts of the A, B, C, and D stages.

TPE2/3 is an electronic product and is installed as part of the service functions of buildings and systems. It does however not apply to the Construction Products Regulation (CPR) in requiring any Declaration of Performance.

For placing the product on the EU/EFTA market, a CE-marking is required. According to its Declaration of Conformity, TPE2/3 is in conformity with the following Council Directives:

Machinery Directives (2006/42/EC and 2009/127/EC)
Radio Equipment Directive (2014/53/EU)
RoHS Directives (2011/65/EU and 2015/863/EU)
EMC Directive (2014/30/EU)

The CE-marking takes into account the proof of conformity with the respective harmonized standards based on the legal provisions above. For the application and use the respective national provisions apply.

Application

TPE2 and TPE3 pumps are applied in systems with variable flow rates. Other applications are in district water supply and industrial processes.

Technical Data

The declared unit is represented by the pump variant whose technical data is provided in the Pump technical data table.

Pump technical data for TPE2/3 100-180

Name	Value	Unit
Voltage	380-500	V
Frequency	50/60	Hz
Min. Eff. Index (MEI)	0.70	-
Flow range (max)	80	m ³ /h
Head max.	18	m
Rated flow	50.8	m ³ /h
Nominal capacity (Motor P2)	2.2	kW
Power input Average (from load profile)	1.02	kW

Performance data of the product according to the harmonised standards, based on provisions for harmonization.

Base materials/Ancillary materials

Main constituents of the representative product

Name	Value	Unit
Cast iron and steel	64.6	%
Stainless steel	2.8	%
Aluminium	6.1	%
Copper	2.2	%
Electronics	0.9	%
Polymers incl. composites & rubbers	4.5	%
Paper	1.4	%
Corrugated board	2.9	%
Pallet wood	14.2	%
Other, incl. inert materials	0.4	%

REACH

At least one partial article (component) contains substances listed in the candidate list (date: 10.11.2024) exceeding 0.1 percentage by mass: Yes.

Information on the concentration in the partial article(s) is available by searching for articles notified under the listed 'SCIP Number' in ECHA's SCIP-database:

<https://echa.europa.eu/scip-database>

List of respective SVHCs, their CAS-number, and corresponding SCIP number is provided here:

SVHC	CAS-number	SCIP number
1, 2-dimethoxyethane	110-71-4	047523a3-4781-46c2-8d6c-632319170ba8
1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, potassium salt	29420-49-3	
Lead	7439-92-1	
Lead monoxide	1317-36-8	
Lead titanium zirconium oxide	12626-81-2	
SVHC	CAS-number	SCIP number
1, 2-dimethoxyethane	110-71-4	98cc40c1-405e-40c8-a869-484ca3b9d64a
1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, potassium salt	29420-49-3	
Lead	7439-92-1	
Lead monoxide	1317-36-8	
Lead titanium zirconium oxide	12626-81-2	
decamethylcyclopentasiloxane	541-02-6	
dodecamethylcyclohexasiloxane	540-97-6	
Octamethylcyclotetrasiloxane	556-67-2	

SVHC in at least one partial article (component) and their SCIP and CAS-number.

Top: Valid for TPE3 pump models. Below: Valid for TPE2 pump models.

CMR

This product contains other CMR substances in categories 1A or 1B which are not on the candidate list (date: 10.11.2024) exceeding 0.1 percentage by mass: No

Biocide

Biocide products were added to this product: No

Reference service life

In agreement with the Europump (2024) guideline, a reference service life of 10 years was assumed for the purpose of this study, for estimating the energy consumption during the use stage of the pump.

LCA: Calculation rules

Declared Unit

The declared unit is a representative TPE2/3 100-180 (Cast iron) pump variant whose mass including packaging is provided in the table.

Declared unit

Name	Value	Unit
Declared unit	1	pce.
Mass reference	52	kg/pce
conversion factor	52	-

System boundary

This EPD is classified as a Cradle-to-Grave and module D. All major steps from the extraction of natural resources to the final disposal of the product are included in the scope of the study, following the modular approach of EN15804. Modules A1-A3 refer to the product stage and includes raw materials extraction and processing, transportation, and the manufacturing process. The product stage is included in this study, and according to EN 15804 the system boundary with nature is set to include those processes that provide the material and energy inputs into the system and the following manufacturing, transport up to the factory gate as well as the processing of waste arising from those processes. The assembly of the product, as well as the packaging, are included in A3. Wastes and losses are included in the modules where they occur according to the polluter pays principle and the modular approach of EN 15804. Module A4 regards the transportation from the production site to the regional distribution centre, and finally to the construction and product application site. Module A5 refers to the installation process of the pump including the transportation of packaging waste to the treatment site and the waste treatment of packaging. The use of energy during installation is negligible for the selected functional unit. Modules B1-B7 refer to the use stage. All use stage modules are assessed in the study, though B1, B2 and B7 are assessed to be zero. The modules B3, B4 and B5 are declared as

"MNR" (module not relevant) according to the PCR-B. Module B6 regards energy use during the operation of the pump and includes the electricity consumption of the product. The total electricity consumption over the reference service lifetime is assessed by calculating the average power input using a specified load profile and multiplying with the number of running hours per year and number of years of the RSL. Modules C1-C4 refer to the End-of-life stage. A product reaches the end-of-life of its service life when it no longer provides any functionality. This life cycle stage includes all activities from the end-of-life of the pump until all materials and components are processed, reused, recycled, or disposed of. C1 regards the dismantling of the pump, and this module is a manual activity. C2 regards the transport to waste processing, C3 refers to the processing (shredding) of waste for recycling, and C4 refers to waste disposal: landfilling and incineration. The End-of-Life assumption is that 95 % is collected as electronic waste, while 5 % goes to landfill. Module D refers to the burdens and benefits beyond the system boundaries. According to EN15804, module D includes the reuse, recovery and/or recycling potentials, expressed in net impacts and benefits. Contributions to module D come from waste incineration processes in A5 and C4 as well as material (metal) recycling in C3. The specific fractions and net flows are shown in the scenarios section of this declaration.

Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Europe

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. The primary database used for background data is Sphera, while Ecoinvent served as a secondary database.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

In the declared net product, there is no biogenic carbon exceeding the minimal reporting requirement of 5% of the mass of the net product. Biogenic carbon in the packaging (corrugated board and wood) is reported below.

Information on biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	3.85	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO₂.

In the following, technical scenario information is provided for modules A4, A5, B6, C1-C4, and D.

Transport from the gate to the site (A4)

Name	Value	Unit
Litres of fuel	1.7	l/100km
Transport distance	1900	km
Capacity utilisation (including empty runs)	61	%

Installation in building (A5)

Name	Value	Unit
Water consumption	-	m ³
Electricity consumption	-	kWh
Packaging waste for incineration (Corrugated board)	1.5	kg
Packaging waste for incineration (Pallet wood)	7.4	kg

Reference Service Life (RSL): For pump products like the declared unit, an RSL of 10 years can be assumed according to the guideline by Europump (2024). Therefore, to facilitate building reference calculations, an RSL of 10 years is declared. The pump running conditions during the service life are partially specified in the PCR-B: The number of running hours per year is assumed to be 3625 h according to the guideline Europump

(2024). The pump load profile for calculating the average power input during operation is specified in the PCR-B according to the two first columns of the following table, while the third column results when scaling with the annual running hours:

Load profile Q in % of Q _{100%}	Time in % of annual operating hours	Time (h) per year
100	6	217
75	15	544
50	35	1269
25	44	1595

Reference service life

Name	Value	Unit
Life Span according to the manufacturer	10	a
Usage conditions: Operating hours per year	3625	h

Operational energy use (B6) and Operational water use (B7)

The electricity consumption per year results from the average power input according to the load profile (Pump technical data table) and the number of annual running hours (Reference Service life table).

For the calculation of Use stage Operational energy use, a European Consumption (Technology) grid mix was applied.

Name	Value	Unit
Water consumption	-	m ³
Annual Electricity consumption	3702	kWh

End of life (C1-C4)

Name	Value	Unit
Collected separately waste type [Electronics waste (WEEE)]	43.1	kg
Recycling (Steel, incl. cast iron)	31.9	kg
Recycling (Stainless steel)	1.4	kg
Recycling (Aluminium)	3.0	kg
Recycling (Brass/copper)	1.1	kg
Incineration (Plastics, electronics, paper)	3.4	kg
Landfilling	2.3	kg

Reuse, recovery and/or recycling potentials (D), relevant scenario information

The net output flow of metals for recycling was calculated as the surplus from C3 Recycling after subtracting Secondary materials applied as input for A1-A3.

Name	Value	Unit
A5, Packaging incineration w/ energy recovery (Electricity)	19.6	MJ
A5, Packaging incineration w/energy recovery (Thermal energy)	17.7	MJ
C3, Copper for recycling (net output flow)	1.04	kg
C3, Stainless Steel for recycling (net output flow)	0.87	kg
C3, Steel for recycling (net output flow)	8.31	kg
C4, Waste incineration w/energy recovery (Electricity)	7.5	MJ
C4, Waste incineration w/energy recovery (Thermal energy)	6.8	MJ

LCA: Results

Characterization model: EN 15804, based on EF 3.1.

The indicator results for module B6 have been calculated for the entire RSL of 10 years.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	MNR	MNR	MNR	X	X	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2:

Parameter	Unit	A1-A3	A4	A5	B1	B2	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	1.78E+02	8.88E+00	1.42E+01	0	0	1.12E+04	0	0	7.75E-01	8.01E-01	5.24E+00	-2.47E+01
GWP-fossil	kg CO ₂ eq	1.92E+02	8.71E+00	3.32E-01	0	0	1.11E+04	0	0	7.6E-01	7.93E-01	4.21E+00	-2.47E+01
GWP-biogenic	kg CO ₂ eq	-1.45E+01	2.1E-02	1.38E+01	0	0	9.95E+01	0	0	1.83E-03	7.13E-03	1.03E+00	2.01E-02
GWP-luluc	kg CO ₂ eq	2.41E-01	1.48E-01	1.48E-03	0	0	1.68E+00	0	0	1.29E-02	1.2E-04	3.92E-04	-2.4E-02
ODP	kg CFC11 eq	6.7E-08	1.29E-12	1.63E-12	0	0	2.51E-07	0	0	1.13E-13	1.8E-11	9.42E-13	-2.06E-11
AP	mol H ⁺ eq	6.7E-01	5.58E-02	3.08E-03	0	0	2.14E+01	0	0	4.87E-03	1.53E-03	2.56E-03	-1.26E-01
EP-freshwater	kg P eq	1.74E-03	3.75E-05	7.61E-07	0	0	4.59E-02	0	0	3.27E-06	3.29E-06	2.77E-06	-2.05E-05
EP-marine	kg N eq	1.27E-01	2.73E-02	1.05E-03	0	0	5.34E+00	0	0	2.38E-03	3.83E-04	1.03E-03	-1.6E-02
EP-terrestrial	mol N eq	1.28E+00	3.02E-01	1.38E-02	0	0	5.59E+01	0	0	2.64E-02	4.01E-03	1.2E-02	-1.71E-01
POCP	kg NMVOC eq	3.61E-01	5.4E-02	2.67E-03	0	0	1.41E+01	0	0	4.72E-03	1.01E-03	2.73E-03	-5.27E-02
ADPE	kg Sb eq	7.72E-03	7.65E-07	2.41E-08	0	0	2.07E-03	0	0	6.68E-08	1.48E-07	1.1E-08	-2.99E-03
ADPF	MJ	2.32E+03	1.16E+02	4.62E+00	0	0	2.32E+05	0	0	1.01E+01	1.66E+01	2.66E+00	-2.47E+02
WDP	m ³ world eq deprived	3.28E+01	1.36E-01	1.58E+00	0	0	3.06E+03	0	0	1.19E-02	2.19E-01	6.12E-01	-3.03E+00

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2:

Parameter	Unit	A1-A3	A4	A5	B1	B2	B6	B7	C1	C2	C3	C4	D
PERE	MJ	7.02E+02	9.97E+00	9.97E+00	0	0	1.68E+05	0	0	8.7E-01	1.2E+01	1.18E+01	-2.63E+01
PERM	MJ	2.01E+01	0	-8.87E+00	0	0	0	0	0	0	0	-1.12E+01	0
PERT	MJ	7.22E+02	9.97E+00	1.1E+00	0	0	1.68E+05	0	0	8.7E-01	1.2E+01	5.95E-01	-2.63E+01
PENRE	MJ	2.3E+03	1.16E+02	4.62E+00	0	0	2.32E+05	0	0	1.01E+01	1.66E+01	2.3E+01	-2.47E+02
PENRM	MJ	2.14E+01	0	0	0	0	0	0	0	0	0	-2.04E+01	0
PENRT	MJ	2.32E+03	1.16E+02	4.62E+00	0	0	2.32E+05	0	0	1.01E+01	1.66E+01	2.66E+00	-2.47E+02
SM	kg	3.16E+01	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0
FW	m ³	1.11E+00	1.11E-02	3.73E-02	0	0	1.28E+02	0	0	9.69E-04	9.2E-03	1.44E-02	-7.49E-02

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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2:

Parameter	Unit	A1-A3	A4	A5	B1	B2	B6	B7	C1	C2	C3	C4	D
HWD	kg	1.45E-01	4.43E-09	2.13E-09	0	0	3.35E-04	0	0	3.87E-10	2.4E-08	1.19E-09	-5.39E-04
NHWD	kg	6.87E+00	1.89E-02	3.03E-01	0	0	1.91E+02	0	0	1.65E-03	1.37E-02	2.71E+00	2.06E+00
RWD	kg	7.34E-02	2.11E-04	1.93E-04	0	0	3.71E+01	0	0	1.84E-05	2.66E-03	9.17E-05	-6.11E-03
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0	3.73E+01	0	0

MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	1.99E+01	0	0	0	0	0	0	0	7.48E+00	0
EET	MJ	1.32E-01	0	1.8E+01	0	0	0	0	0	0	0	6.82E+00	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional:

Parameter	Unit	A1-A3	A4	A5	B1	B2	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	1.13E-05	2.45E-07	1.87E-08	0	0	1.79E-04	0	0	2.14E-08	1.28E-08	1.66E-08	-1.66E-06
IR	kBq U235 eq	7.11E+00	3.06E-02	3.05E-02	0	0	6.11E+03	0	0	2.67E-03	4.38E-01	1.39E-02	-1.09E+00
ETP-fw	CTUe	8.62E+02	8.59E+01	2.32E+00	0	0	6.73E+04	0	0	7.5E+00	5.45E+00	1.53E+00	-6.36E+01
HTP-c	CTUh	2.4E-06	1.74E-09	1.59E-10	0	0	3.78E-06	0	0	1.52E-10	6.9E-10	8.13E-11	-1.45E-07
HTP-nc	CTUh	1.67E-06	7.79E-08	7.71E-09	0	0	5.79E-05	0	0	6.8E-09	4.39E-08	4.09E-09	-8.14E-08
SQP	SQP	3.21E+03	5.69E+01	1.64E+00	0	0	9.78E+04	0	0	4.97E+00	7.01E+00	6.85E-01	-5.31E+01

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

References

STANDARDS

EN 15804
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
EN ISO 14025:2011, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

FURTHER REFERENCES

Software: Sphera LCA for Experts, v. 10.9

Databases:

---- Sphera Professional database, v. 2024.2

---- Ecoinvent database, v. 3.10

IBU 2021

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V., Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021
www.ibu-epd.com

PCR-A

Product Category Rules for Building-Related Products and Services, Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019, Version 1.4, 2024.

PCR-B

PCR Guidance-Text for Building-Related Products and Services, Part B: Requirements on the EPD for Pumps for liquids and liquids with solids. Version 4, 2023.

Data booklet

TP, TPD, TPE, TPED, TPE2, TPE2 D, TPE3, TPE3 D. Inline circulator pumps, 50 Hz. Grundfos Data Booklet. Available from Grundfos Product Center

Europump (2024)

Use Phase GHG Emissions from Pump Units. A Europump Guide. Europump, 2024, 18p. Available from Publications - www.europump.net



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