

Environmental Product Declaration



THE INTERNATIONAL EPD® SYSTEM



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

Thermostatic Shower Mixers based on reference product 57480

from

damixa

This EPD covers multiple products.

Programme:	The International EPD® System, www.environdec.com
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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



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
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Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR): Construction products, 2019:14, version 1.3.1

PCR review was conducted by: *The Technical Committee of the International EPD® System. Chair of the PCR review: Claudia A. Peña. The review panel may be contacted via info@environdec.com*

Life Cycle Assessment (LCA)

LCA accountability: Uniben Tettey, RISE Research Institutes of Sweden

Third-party verification

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

EPD verification by individual verifier

Third-party verifier: Hannu Karppi, Ramboll Finland Oy

Approved by: The International EPD® System

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 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.

Company information

Owner of the EPD: FM Mattsson Denmark ApS

Contact: Phone: +45 88330034
Mail: danmark@fmmattssongroup.com
Web: www.damixa.dk

Description of the organisation: Damixa is a Danish design and engineering company and our mission is to create timeless design combined with practical features and good workmanship.

In 2014, Damixa became a part of the Swedish FM Mattsson Group, who is market leading in mixers and shower systems in the Nordic region.

FM Mattsson Group conducts the sale, manufacturing and product development of water mixers and related products under the established brands of FM Mattsson, Mora, Damixa, Hotbath, Aqualla and Adamsez.

The group's vision is to be the customer's first choice in the bathroom, kitchen and beyond.

In 2022 the business generated sales of more than 1.9 billion SEK from its companies in Sweden, Norway, Denmark, Finland, Benelux, UK, Germany and Italy and had 559 employees.

FM Mattsson Group is listed on Nasdaq Stockholm.

Product-related or management system-related certifications: Designation according to EN 1111.

Name and location of production site(s):

FM Mattsson Denmark ApS
Hvidkærvej 48
5250 Odense SV
Denmark

Product information

Product group name: Damixa Thermostatic Shower Mixers.

This EPD covers the product group - Damixa Thermostatic Shower Mixers. The EPD is based on the worst-case approach, where results per kg product for the worst-case product within the product group are declared. The criterion for defining the worst-case product is mainly based on the net weight of the included products in the product group.

Reference product and included products: This EPD covers the product group - Damixa Thermostatic Shower Mixers and the reference worst-case product is 57480 Zero thermostatic mixer. The complete list of products covered by the EPD is presented at the end of this EPD document.

Product group identification: Thermostatic Shower Mixer, according to EN 1111.

Product group description: Damixa Thermostatic Bath and Shower Mixers for installation in bathrooms. The mixers are mechanically operated to mix hot and cold water, as well as regulate the water flow. The products come with two different water inlet dimensions, 150cc and 160cc to accommodate installation requirements on different markets. Damixa bath and shower mixers include built-in features such as Eco-click for water saving and anti-scalding temperature limitation.

UN CPC code: 42911 – Sinks, washbasins, baths and other sanitary ware and parts thereof, of iron, steel, copper, and aluminum.

Geographical scope: The processes in modules A1-A3 have been modelled for China and Europe. The use phase (module B7) and end-of-life (module C) of the product's performance been modelled the European region.

LCA information

Functional unit / declared unit: 1 kg of Damixa Thermostatic Shower Mixer

Reference service life¹: 16 years

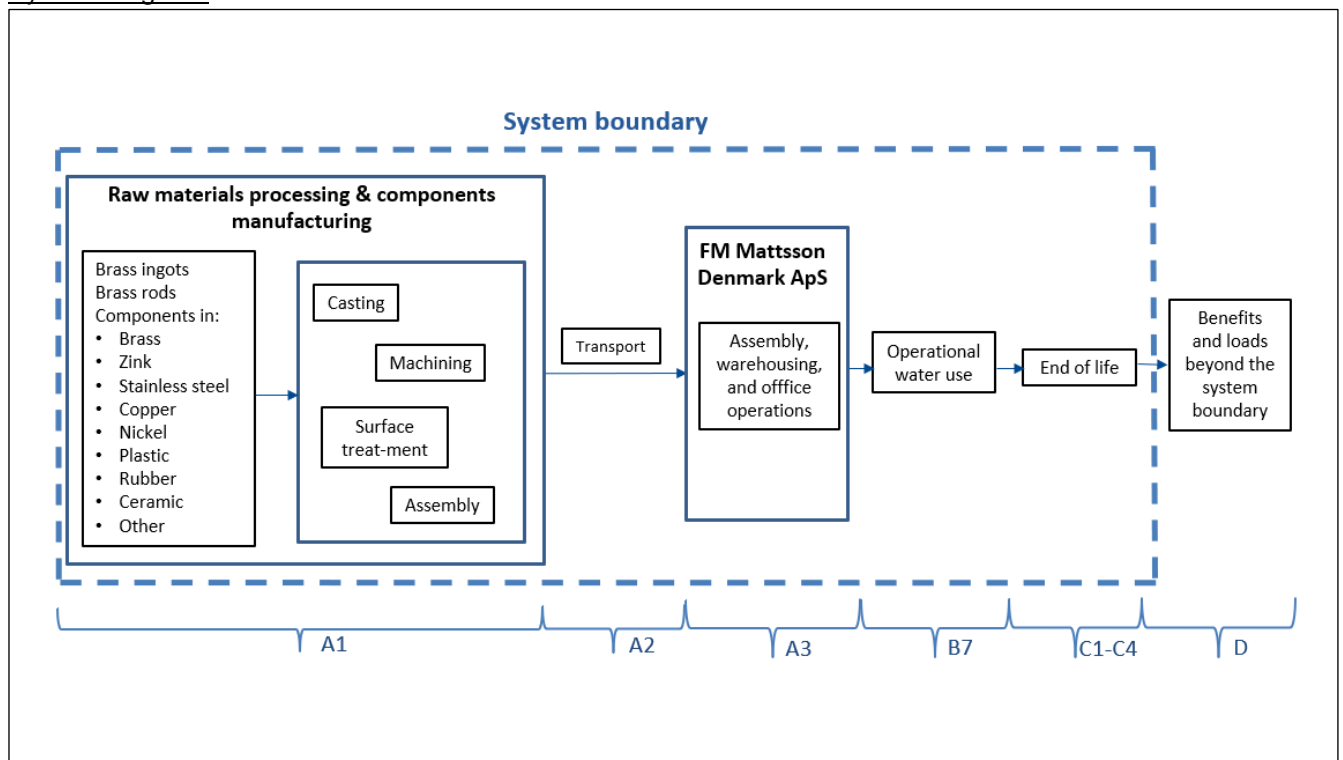
Time representativeness: The data used for the LCA calculation covers bill-of-materials as well as operations at FM Mattsson Denmark ApS for the year 2022.

Cut-off criteria: All materials and energy used to manufacture the thermostatic shower mixers are included.

Database(s) and LCA software used: Ecoinvent 3.8 and SimaPro 9.5.0.0

Description of system boundaries: Cradle to gate (A1-A3) with options, i.e., also operational water use module B7, waste management modules C1–C4 and beyond end-of-life module D.

System diagram:



¹ The reference service life is defined based on Cordella M. et al. (2014).

More information

LCA Practitioner: Uniben Tetley, RISE Research Institutes of Sweden

Additional information: Modelling of all product components are based on production bill-of-material for the year 2022.

Supplier specific electricity mixes and corresponding GWP impact: China, southwest region – Main supplier, (90% grid electricity and 10% solar power): 301 g CO₂/kWh; China, southwest region – other suppliers: 326 g CO₂/kWh; China – unknown location: 983 g CO₂/kWh; Italy: 445 g CO₂/kWh.

Electricity used in module A3: Purchased electricity for operations at FM Mattsson Denmark ApS is 100% renewable based, from wind power with a GWP impact of 14.5 g CO₂-eq/kWh.

Information about scenarios and additional technical information: Information about the scenario for operational water use for this product is provided under “Additional Information” below.

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	X	X	X	ND	X	ND	ND	ND	ND	ND	ND	X	X	X	X	X	X
Geography	Global /EU	Global /EU	DK		EU							EU	EU	EU	EU	EU	EU
Specific data used	90% for GWP in A1-A3					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	2% for GWP in A1-A3					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%, all A3 in one site					-	-	-	-	-	-	-	-	-	-	-	-

LCA MODULES

<p>A1 Raw material supply: This module relates to raw material extraction and processing, processing of secondary material input (e.g. recycling processes), transport to component manufacturing and component manufacturing.</p>	<p>C1 De-construction: This module relates to the dismantling of the thermostatic shower mixers at the end-of-life. It is assumed that the dismantling is done manually and the related impacts are assumed to be negligible.</p>
<p>A2 Transportation: This module relates to transport from raw material extraction and processing, and component manufacturing to suppliers and FM Mattsson Denmark ApS.</p>	<p>C2 Waste Transport: This module relates to the transport of the dismantled thermostatic shower mixer to final waste disposal. An average distance of 100 km from demolition site to waste processing site is assumed.</p>
<p>A3 manufacturing: This module covers operational activities at FM Mattsson Denmark ApS. The processes cover assembly, warehousing and office operations for the thermostatic shower mixers at FM Mattsson Denmark ApS.</p>	<p>C3 Waste processing: This module covers impacts related to sorting and recycling processes for the relevant material components of the thermostatic shower mixers. It is assumed that 90% of the brass and non-brass metals as well as 74% of the packaging wastes are recovered for recycling. The remaining portions of the brass, non-brass metals as well as all the plastics and rubber components are assumed to be incinerated with energy recovery.</p>
<p>A5 Construction installation: This module covers transport of cardboard and paper packaging wastes to waste management and their incineration. It is assumed that 26% of the packaging waste is incinerated.</p>	<p>C4 Waste disposal: This module relates to waste disposal processes such as landfilling. For the basin mixers it is assumed that the ceramic components in the studied products are landfilled.</p>
<p>B7 Operational: This module covers the production, heating and wastewater treatment of tap water use over the reference service life of one thermostatic shower mixer used by one person. Further details on the scenario for operational water use are given in "Additional Information" below.</p>	<p>D Benefits and loads beyond system boundary: This module covers benefits and loads associated with recovery/recycling beyond the defined system boundary for the thermostatic shower mixer. This includes benefits from recycling and waste incineration.</p>

Content information

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Brass	0.867	74	0
Zinc	0.065	0	0
Stainless steel	0.007	55	0
Copper	0.002	0	0
Nickel	0.004	0	0
Chromium	0.000	0	0
Plastic	0.051	0	0
Rubber	0.003	0	0
Ceramic	0.002	0	0
TOTAL	1.0000		0
Packaging materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
Corrugated board	0.056	5.55	0.028
Paper	0.012	1.17	0.006
TOTAL	0.068	6.73	0.034

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional unit
Lead	231-100-4	7439-92-1	1.48

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804

Results per kg thermostatic shower mixer									
Indicator	Unit	A1-A3	A5	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	4.02E+00	1.18E-02	3.51E+02	0.00E+00	1.90E-02	2.93E-01	2.63E-05	-1.45E+00
GWP-biogenic	kg CO ₂ eq.	-2.32E-01	1.20E-01	2.68E+01	0.00E+00	1.88E-05	3.66E-02	1.30E-07	1.33E-02
GWP-luluc	kg CO ₂ eq.	6.16E-03	4.53E-06	2.16E-01	0.00E+00	9.19E-06	1.64E-04	1.77E-08	-4.47E-03
GWP-total	kg CO ₂ eq.	4.04E+00	6.87E-02	3.78E+02	0.00E+00	1.90E-02	3.30E-01	2.65E-05	-1.44E+00
ODP	kg CFC 11 eq.	4.62E-07	3.57E-10	5.79E-06	0.00E+00	4.02E-10	2.59E-09	5.77E-13	-1.90E-08
AP	mol H ⁺ eq.	1.38E-01	5.75E-05	1.49E+00	0.00E+00	4.04E-05	5.07E-04	1.61E-07	-8.62E-02
EP-freshwater	kg P eq.	9.30E-03	1.40E-06	1.68E-01	0.00E+00	1.31E-06	5.78E-05	5.17E-09	-6.86E-03
EP-marine	kg N eq.	9.78E-03	2.47E-05	9.37E-01	0.00E+00	1.02E-05	1.65E-04	6.12E-08	-4.86E-03
EP-terrestrial	mol N eq.	1.19E-01	2.36E-04	2.32E+00	0.00E+00	1.04E-04	1.29E-03	6.55E-07	-6.37E-02
POCP	kg NMVOC eq.	3.46E-02	8.43E-05	1.16E+00	0.00E+00	6.27E-05	4.18E-04	2.21E-07	-1.81E-02
ADP-minerals&metal s*	kg Sb eq.	1.62E-03	4.53E-08	3.57E-04	0.00E+00	6.04E-08	6.19E-07	6.24E-11	-1.17E-03
ADP-fossil*	MJ	5.05E+01	1.28E-01	4.41E+03	0.00E+00	2.62E-01	1.72E+00	4.78E-04	-1.81E+01
WDP*	m ³	2.66E+01	1.10E-03	1.43E+02	0.00E+00	1.10E-03	1.93E-02	1.48E-05	-1.48E+00
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&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.

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

As this EPD includes module C, the use of the results of modules A1-A3 without considering the results of module C is discouraged.

Additional mandatory and voluntary impact category indicators

Results per kg thermostatic shower mixer									
Indicator	Unit	A1-A3	A5	B7	C1	C2	C3	C4	D
GWP-GHG ²	kg CO ₂ eq.	4.03E+00	1.18E-02	3.51E+02	0.00E+00	1.90E-02	2.93E-01	2.63E-05	-1.46E+00

Resource use indicators

Results per kg thermostatic shower mixer									
Indicator	Unit	A1-A3	A5	B7	C1	C2	C3	C4	D
PERE	MJ	1.54E+01	4.46E-03	5.41E+02	0.00E+00	4.12E-03	2.50E-01	9.77E-06	-5.10E+00
PERM	MJ	2.09E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.09E+00	0.00E+00	0.00E+00
PERT	MJ	1.75E+01	4.46E-03	5.41E+02	0.00E+00	4.12E-03	-1.84E+00	9.77E-06	-5.10E+00
PENRE	MJ	5.05E+01	1.28E-01	4.41E+03	0.00E+00	2.62E-01	1.72E+00	4.78E-04	-1.81E+01
PENRM	MJ	2.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.33E+00	0.00E+00	0.00E+00
PENRT	MJ	5.29E+01	1.28E-01	4.41E+03	0.00E+00	2.62E-01	-6.08E-01	4.78E-04	-1.81E+01
SM	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
RSF	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
NRSF	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
FW	m ³	3.47E-01	7.09E-05	6.63E+01	0.00E+00	7.94E-05	4.04E-03	2.54E-07	-1.37E-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 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								

² This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Waste indicators

Results per kg thermostatic shower mixer									
Indicator	Unit	A1-A3	A5	B7	C1	C2	C3	C4	D
Hazardous waste disposed	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
Non-hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	0.00E+00
Radioactive waste disposed	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

Output flow indicators

Results per kg thermostatic shower mixer									
Indicator	Unit	A1-A3	A5	B7	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	0.00E+00
Material for recycling	kg	0.00E+00	9.72E-02	0.00E+00	0.00E+00	0.00E+00	2.22E-01	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	3.41E-02	0.00E+00	0.00E+00	0.00E+00	7.78E-02	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	0.00E+00	0.00E+00	-2.67E-01
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.40E-01

Additional environmental information

Overall, the results for the potential environmental impacts over the entire life cycle of the thermostatic shower mixers show that the use phase (B7) related to operational water use is by far the most significant contributor. It illustrates the importance of the use phase in reducing environmental impacts associated with sanitary fitting products. Design of energy-efficient products, choice of renewable energy sources during the use phase as well as appropriate user behaviour can play a significant role in lowering the use phase impacts. Studies have shown that up to 40% energy savings can be realized through energy-efficient taps and showers (Dodoo et al. 2017; Folkesson et al., 2017).

Operational water use scenario

For this product, the scenario for operational water use has been modelled based on average performance parameters for thermostatic shower mixers derived from a study by Cordella M. et al. (2014), on different sanitary products within the EU and information from the European Water Label (EWL, 2022). The parameters used to estimate the water use for the thermostatic shower mixers as well as the energy mix for water heating are given in the tables below. Based on the given parameters and assumptions, the annual average water consumption for this product is 2 555 liters per person. About 90% of this is assumed to be hot water use and the corresponding annual energy use to heat the water is about 60 kWh. Note that the corresponding climate impact for module B7, 378 kg CO₂-eq is based on an assumed flow rate of 1 liter/minute for 16 years of use by one person and also includes water production and distribution, as well as waste water treatment. In order to estimate the climate impact for B7 for a specific thermostatic shower mixer, the climate impact result of 378 kg CO₂-eq should be multiplied by the actual nominal flow rate and further information on the nominal flow rates of the listed thermostatic shower mixers is available at www.damixa.dk

Parameters used to model the operational water use for the thermostatic shower mixers

Parameter	Value	Unit
Reference flow	1	l/minute
Use cycles	1	Per person/day
Duration of use cycle	7	Minute
Share of hot water use	90	%
Cold water inlet temperature	15	°C
Outlet mixed water temperature	38	°C
Specific heat capacity of water	4.18	kJ/(kg·K)
Density of water	0.981	kg/l

The energy mix for the operational water use scenario is modelled based on data for different fuel mixes for water heating in EU households for 2020 (Eurostat, 2022). In 2020, 15% of the total final energy use in the EU was for water heating in the residential sector.

Energy mix for operational water heating modelling	
Energy source	Share, %
Solid fossil fuels and peat	8.97
Natural gas	22.18
Oil and petroleum products	16.78
Renewables and biofuels	11.84
Electricity	13.79
Heat	26.44
Total	100
Corresponding GWP	346 g CO ₂ -eq/kWh

Differences versus previous versions

This is the first version of the EPD so there are no differences versus previous versions of the EPD.

References

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Dodoo et al. (2017) Final energy savings and cost-effectiveness of deep energy renovation of a multi-storey residential building, *Energy*, Volume 135, 2017, Pages 563-576, ISSN 0360-5442, <https://doi.org/10.1016/j.energy.2017.06.123>.

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This EPD cover a group of products – Damixa Thermostatic Shower Mixers, and is based on the reference product 57480 Zero thermostatic mixer which, as a worst case, represents all the thermostatic mixers listed below:

Series	Article number	Description	Weight (g)
Thermixa Zero	57450	Thermostatic shower mixer, 150cc	1480
Thermixa Zero	57400	Thermostatic shower mixer, 150cc	1695
Thermixa Zero	57480	Thermostatic shower mixer, 160cc	1467
Core	59400	Thermostatic shower mixer, 150cc	1700
Core	59480	Thermostatic shower mixer, 160cc	1500
Core	59510	Thermostatic bath and shower mixer w. swing spout	2222
Pine, Thermixa 700	57407	Thermostatic shower mixer, 150cc	2459
Pine, Thermixa 700	57507	Thermostatic bath and shower mixer	2701
Pine, Thermixa 700	57477	Thermostatic shower mixer, 160cc	2196
Pine, Thermixa 700	57457	Thermostatic shower mixer, 150cc	2234
Pine, Thermixa 700	57557	Thermostatic bath and shower mixer	2463
Pine, Thermixa 700	57567	Thermostatic bath and shower mixer, 160cc	2427
Pine, Thermixa 700	57427	Thermostatic shower mixer, 150cc	2423
Mora LionX	391100	Thermostatic shower mixer, 150cc	2459
Mora LionX	390100	Thermostatic bath and shower mixer	2701
Viskan	49800000	Thermostatic shower mixer, 160cc	2196
Viskan	49801500	Thermostatic shower mixer, 150cc	2459
Viskan	49900000	Thermostatic bath and shower mixer,160cc	2427

Series	Article number	Description	Weight (g)
Viskan	49901500	Thermostatic bath and shower mixer, 150cc	2701
Silhouet	74400	Thermostatic shower mixer, 150cc	2024
Silhouet	74500	Thermostatic bath and shower mixer	2272
Silhouet	74510	Thermostatic bath and shower mixer, w. swing spout	2462
Silhouet	74475	Thermostatic shower mixer, 160cc	1805
Tradition	37403	Thermostatic shower mixer, 150cc	2129
Tradition	37483	Thermostatic shower mixer, 160cc	1967

