





Environmental Product Declaration



LENO ASV-BD DN15-50

| EPD issued | 2025-11-03 |
|-------------------------------|---|
| EPD expires | 2030-11-03 |
| EPD author | Danfoss Climate Solutions |
| EPD type | Cradle-to-gate with options |
| Declared unit | One product over its Reference Service Life |
| Products included | Reference Product: LENO ASV-BD, DN 50, Internal thread (003Z4046). This EPD shows results for the reference model but covers multiple products. The table with products covered is available in Annex1. |
| Manufacturing Location | Sofia, Bulgaria |
| Use Location | European Union |
| Application | Balancing 2-pipe heating system |
| Mass | 2,53 kg without packaging 2,74 kg with packaging |
| Dimensions (H×W×D) | 190x190x92 mm without packaging |
| Verification | [] External [X] Internal [] None |
| Produced to | <u>Danfoss Product Category Rules</u> (2022-09) |
| Internal independent verifier | Danfoss Power Electronics & Drives A/S |
| | |

DISCLAIMER

This EPD was prepared to the best of knowledge of Danfoss A/S. The life cycle assessment calculations were performed in accordance with ISO 14040 & 14044 and EN15804+A2.

All results were internally reviewed by independent experts. While this declaration has followed the guidance of ISO 14025, it has not been externally verified or registered by an EPD programme and therefore does not fully comply with the ISO 14025 standard.

This EPD has been published by Danfoss A/S on Danfoss Product Store and Danfoss Website. For questions, feedback or requests please contact your Danfoss sales representative.



Introduction

This Environmental Product Declaration (EPD) follows the Danfoss Product Category Rules (PCR) (2022-09-20). These rules provide a consistent framework for calculating and reporting the environmental performance of Danfoss' products and is aligned with relevant international standards, particularly ISO 14025:2006 and EN 15804+A2:2019.

This document has been produced by Danfoss A/S following an internal verification process, but it is not a third-party verified document.

What is an EPD?

An EPD is a document used to communicate transparently, the quantified environmental impacts of a product over its lifecycle stages. This quantification is done by performing a Life Cycle Assessment (LCA) in line with a consistent set of rules known as a PCR (Product Category Rules).

An EPD provides:

- A product's carbon footprint together with other relevant environmental indicators, including air pollution, water use, energy consumption and waste, over its own life cycle (Modules A-C), as well as the expected benefits of reuse and recycling in reducing the impact of future products (Module D). See Table 1 for module descriptions.
- Environmental data allowing customers to calculate LCAs and produce EPDs for their own products.

Type of EPD

This EPD is of the type 'cradle-to-gate with options' and includes the following modules: production (A1-A3), shipping (A4) and installation (A5); deconstruction (C1), waste collection and transport (C2), treatment (C3) and disposal (C4). It also includes potential net benefits to future products from recycling or reusing post-consumer waste (D). The codes in brackets are the module labels from EN 15804+A2. Modules concerning use, maintenance, repair, replacement, refurbishment, operational energy and water use (B1-B7) are excluded, following the cut-off rules from EN 15804.

Table 1: Modules of the product's life cycle included in the EPD

| Prod | duct st | age | | llatio | Use stage | | | | End-of-life stage | | | Benefit | | | | |
|---------------|-----------|-------------|-----------|--------------|-----------|-------------|--------|-------------|-------------------|---------------------------|--------------------------|-------------|-----------|------------------|----------|--|
| | | | | n | | | | | | | | | | | | S |
| Raw materials | Transport | Manufacture | Transport | Installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-install. | Transport | Waste processing | Disposal | Benefits and loads outside system boundaries |
| A1 | A2 | А3 | A4 | A 5 | B1 | B2 | В3 | B4 | B5 | B6 | В7 | C 1 | C2 | С3 | C4 | D |
| Х | X | X | Х | Х | MNR | MNR | MNR | MNR | MNR | MNR | MNR | X | X | X | X | Х |

(X = declared module; MNR = module not relevant)



Product Description

LENO™ ASV-BD is a range of manual valves for balancing flow in heating and cooling systems. The production location is the Danfoss plant in Sofia, Bulgaria. See more information on <u>Danfoss Product</u> Store.

ASV valves are comprised of an ASV-PV differential pressure controller and an ASV-BD partner valve, connected with an impulse tube. Used together with Danfoss presetting radiator thermostatic valves, they form part of the integrated Danfoss two-pipe solution

The reference product used for this EPD is representative for all the LENO™ ASV-BD (with internal thread, 003Z4046). Valves covered by this EPD are presented in Annex 1, the mass of covered products range from 1,02kg to 2,74kg. Since the reference product is the biggest in the product group, this EPD provides a conservative scenario. This assumption is based on the mass and material composition of the product.

To calculate the environmental impacts for each product covered by this EPD, a conversion factor was calculated based on masses for each product. The conversion factors and an example of how to calculate the impacts are in Annex 1.



Figure 1: LENO ASV-BD

Reference Service Life

For the purpose of this EPD the reference service life (RSL) of the product is considered to be 10 years.

Intended market

The intended market of this study is European Union, and the baseline scenario involves the distribution, installation, and end-of-life in European Union. With regards to the use stage and the end-of-life stage, this EPD is not representative of regions other than European Union.

Table 2: Product composition



Product Description

| Material | Mass (kg) | Share (%) |
|-------------------------------|-----------|-----------|
| Metals | 2,17E+00 | 85,7% |
| Steel (excl, stainless steel) | 2,90E-03 | 0,1% |
| Iron | 3,40E-03 | 0,1% |
| Copper and its alloys (Brass) | 2,16E+00 | 85,5% |
| Plastics & Rubbers | 3,61E-01 | 14,3% |
| Plastic with no GF | 4,65E-02 | 1,8% |
| Rubbers | 8,31E-03 | 0,3% |
| Other materials | 4,75E-04 | 0,02% |
| Other | 4,75E-04 | 0,02% |
| Total product | 2,53E+00 | 100,0% |
| Paper and cardboard | 1,98E-01 | 91,7% |
| Plastics | 1,79E-02 | 8,3% |
| Other | 2,70E-05 | 0,01% |
| Total packaging | 2,16E-01 | 100,0% |
| Total product and packaging | 2,74E+00 | |

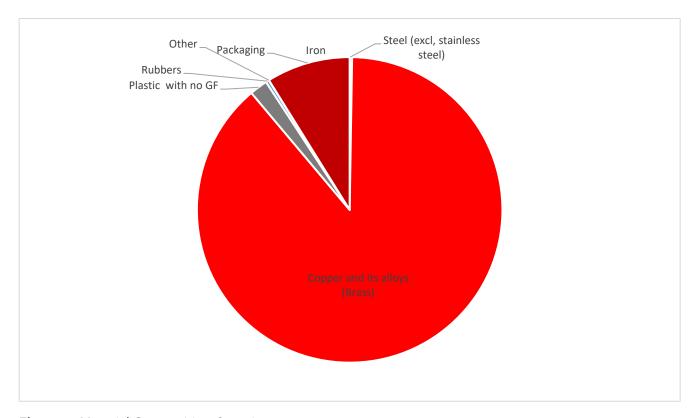


Figure 2: Material Composition Overview



Overview of LCA study

Data quality

Data quality of the selected datasets is generally assessed as good and very good in terms of geographical, time and technology representativeness and applicability. Background data is from *LCA* for Experts© database version 2025.2.

Allocation and cut-off criteria

The allocation is made in accordance with the provisions of EN 15804+A2. All major raw materials and all the essential energy are included. All hazardous materials and substances are considered in the inventory. Data sets within the system boundary are complete and fulfil the criteria for the exclusion of inputs and output criteria.

System boundaries

The results in this EPD are split into life cycle modules following EN 15804 (Figure 1): production (A1-A3), distribution (A4), installation (A5) and the end of the product's life (C1-C4). Module D represents environmental benefits and loads that occur beyond the system boundary (i.e., in future products).

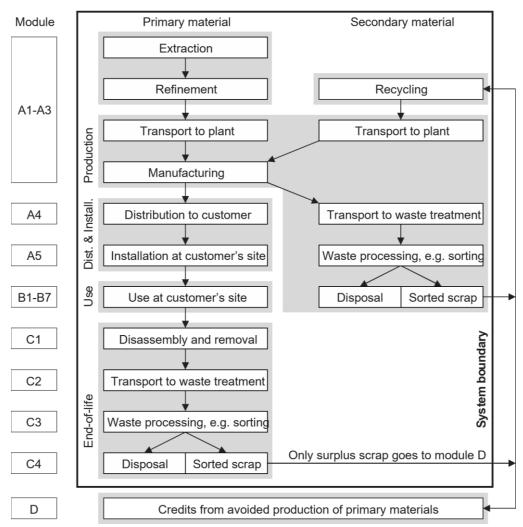


Figure 3: Modular structure used in this EPD (following EN 15804+A2)



Overview of LCA study

Product and packaging manufacture (A1-A3)

Final manufacturing occurs in the Sofia plant, Bulgaria. The facility is certified according to IATF 16949, ISO 14001, ISO 45001, and ISO 9001. Where waste generated on-site is recyclable, it is separated and recycled. For further information, see here. The product is shipped in the packaging as described in Table 1. All packaging materials can be safely recycled or incinerated if appropriate local facilities are available. Onsite data was collected for 2023.

Table 3: Biogenic carbon content in product and packaging

| | Total (excluding recycling) |
|--|-----------------------------|
| Biogenic carbon content in product [kg] | - |
| Biogenic carbon content in accompanying packaging [kg] | 8,51E-02 |

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

Shipping and installation (A4-A5)

Distribution is assumed to occur to customers within European Union. Transportation at 3000 km distance by truck is assumed between the factory and the final customer.

Module A5 includes disposal of packaging materials only, the benefits from e.g., energy recovered after plastic incineration are allocated to module D. The product is assumed to be installed by hand. Energy use in handheld tools during installation is not included as it falls under the cut-off criteria.

End-of-life (C1-C4)

The following end-of-life procedure has been applied:

- Manual dismantling is used to separate recyclable bulk materials, e.g. bulk metals and plastics.
- Shredding is used for the remaining parts, such as printed circuit board assemblies.
- Ferrous metals, non-ferrous metals and bulk plastics are recovered through recycling.
- The remaining materials go to either energy recovery or landfill.

In line with EN 15804+A2, only the 'net scrap' (i.e., the leftover recyclable materials remaining after inputs of recycled content required in the manufacturing phase are first satisfied) is used to calculate the benefits and loads beyond the system boundary (Module D).

For this EPD an average scenario with 50% of the product sent to recycling & 50% of the product sent to landfill (C3, C4, D) was used. This scenario is designed to represent an average end-of-life scenario.

For the EPD this average scenario was chosen as it is assumed that it represents the majority of cases on average.



Overview of LCA study

Benefits and loads beyond the system boundary (D)

Module D considers the net benefit of recycling (including energy recovery) of materials in the product and packaging, taking account of losses in the recycling process and the recycled material used in the production of the product. Module D covers the two end-of-life scenarios, as described above. It does not cover energy recovery from incineration since the process used in LCA for Experts has an efficiency below 60%. Therefore, the impacts of this process are reported in module C4 and no benefits are claimed in module D.



This section presents the environmental performance of one ASV BD. Figure 4 presents the environmental impact of the LENO™ ASV-BD across a number of environmental impact categories (following EN 15804+A2:2019) per life cycle stage, including Global Warming Potential.

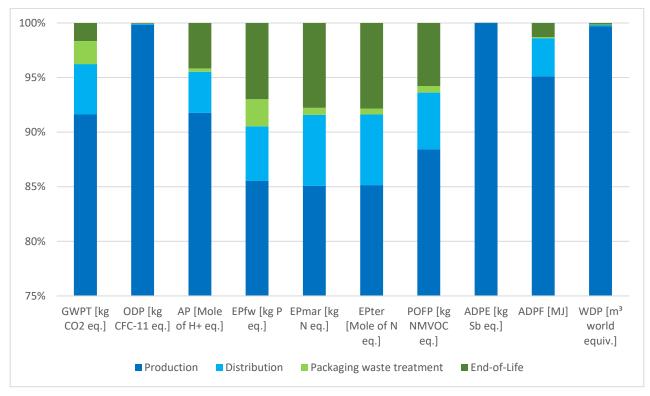


Figure 4: Breakdown of environmental impacts by life cycle stages. See Table 5 and 6 for descriptions of environmental impact indicators.

EPD for LENO™ ASV-BD © Danfoss | 2025.11



Table 5: Environmental impact indicators

| | Production | Distribution | Packaging waste treatment | | End-of-Life | | | |
|--|---|--|---|---|---|--------------------------------|---|---|
| Life cycle stages based on EN 15804+A2 | A1-A3 | A4 | A5 | C1 | C2 | С3 | C4 | D |
| Description Environmental Impact Indicators | Manufacture of the product from 'cradle- to-gate' | Transport of the product to the customer | Installation of the product and disposal of used packaging | Deinstallation of the product from the site | Transport of the product to waste treatment | Processing waste for recycling | Disposal of waste that cannot be recycled (through landfill and incineration) | Potential benefits and loads beyond the system boundary due to reuse, recycling, and energy recovery |
| GWPT [kg CO2 eq.] | 1,43E+01 | 7,17E-01 | 3,32E-01 | 0,00E+00 | 2,55E-02 | 1,88E-01 | 4,40E-02 | -3,23E+00 |
| GWPF [kg CO2 eq.] | 1,46E+01 | 7,10E-01 | 1,97E-02 | 0,00E+00 | 2,55E-02 | 1,86E-01 | 4,39E-02 | -3,23E+00 |
| GWPB [kg CO2 eq.] | -3,12E-01 | 0,00E+00 | 3,12E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| GWPLULUC [kg CO2 eq.] | 2,79E-02 | 7,37E-03 | 1,62E-05 | 0,00E+00 | 6,22E-07 | 1,92E-03 | 1,05E-04 | -4,25E-03 |
| ODP [kg CFC-11 eq.] | 1,50E-10 | 1,19E-13 | 1,77E-14 | 0,00E+00 | 3,01E-18 | 3,10E-14 | 7,68E-14 | -3,45E-11 |
| AP [Mole of H+ eq.] | 3,33E-02 | 1,37E-03 | 1,10E-04 | 0,00E+00 | 3,60E-05 | 1,18E-03 | 2,93E-04 | -8,32E-03 |
| EPfw [kg P eq.] | 3,30E-05 | 1,93E-06 | 9,61E-07 | 0,00E+00 | 5,58E-09 | 5,04E-07 | 2,18E-06 | -5,80E-06 |
| EPmar [kg N eq.] | 7,70E-03 | 5,89E-04 | 5,82E-05 | 0,00E+00 | 1,40E-05 | 5,88E-04 | 1,01E-04 | -1,61E-03 |
| EPter [Mole of N eq.] | 8,32E-02 | 6,31E-03 | 5,34E-04 | 0,00E+00 | 1,58E-04 | 6,39E-03 | 1,11E-03 | -1,75E-02 |
| POFP [kg NMVOC eq.] | 2,11E-02 | 1,24E-03 | 1,44E-04 | 0,00E+00 | 3,33E-05 | 1,10E-03 | 2,44E-04 | -4,73E-03 |
| ADPE [kg Sb eq.] | 2,87E-03 | 4,76E-08 | 2,33E-09 | 0,00E+00 | 9,17E-10 | 1,24E-08 | 2,30E-09 | -1,08E-03 |
| ADPF [MJ] | 2,50E+02 | 9,18E+00 | 2,69E-01 | 0,00E+00 | 3,72E-01 | 2,40E+00 | 6,15E-01 | -5,58E+01 |
| WDP [m³ world equiv.] | 2,69E+00 | 3,28E-03 | 7,10E-04 | 0,00E+00 | 4,35E-05 | 8,55E-04 | 2,98E-03 | -6,16E-01 |

How to read scientific numbers:

e.g. $2,05E02 = 2,05 \times 10^2 = 205$; $2,04E-01 = 2,04 \times 10^{-1} = 0,204$



Table 6: Environmental impact indicator descriptions

| Acronym | Unit | Indicator |
|----------|---------------|--|
| GWPT | kg CO₂ eq. | Carbon footprint (Global Warming Potential) – total |
| GWPF | kg CO₂ eq. | Carbon footprint (Global Warming Potential) – fossil |
| GWPB | kg CO₂ eq. | Carbon footprint (Global Warming Potential) – biogenic |
| GWPLULUC | kg CO₂ eq. | Carbon footprint (Global Warming Potential) – land use and land use change |
| ODP | kg CFC-11 eq. | Depletion potential of the stratospheric ozone layer |
| AP | Mole H+ eq. | Acidification potential |
| EPfw | kg P eq. | Eutrophication potential – aquatic freshwater |
| EPmar | kg N eq. | Eutrophication potential – aquatic marine |
| EPter | Mole of N eq. | Eutrophication potential – terrestrial |
| POFP | kg NMVOC eq. | Summer smog (photochemical ozone formation potential) |
| ADPE* | kg Sb eq. | Depletion of abiotic resources – minerals and metals |
| ADPF* | MJ | Depletion of abiotic resources – fossil fuels |
| WDP* | m³ world eq. | Water deprivation potential (deprivation-weighted water consumption) |

Results for module A1-A3 are specific to the product. All results from module A4 onwards should be considered as scenarios that represent one possible outcome. The true environmental performance of the product will depend on actual use.

The results in this section are relative expressions only and do not predict actual impacts, the exceeding of thresholds, safety margins, or risks. EPDs from others may not be comparable.

Carbon footprint

The total carbon footprint, cradle-to-grave, of the product is **1,56E+01kg CO2-eq (A1-C4)**. The carbon footprint of production of this product, cradle-to-gate, is **1,43E+01 kg CO2-eq (A1-A3)**.



Table 7: Resource use

| | A1-A3 | A4 | A5 | C1 | C2 | С3 | C4 | D |
|------------|----------|----------|----------|----------|----------|----------|----------|-----------|
| PERE [MJ] | 1,07E+02 | 6,92E-01 | 1,85E-02 | 0.00E+00 | 1,23E-03 | 1,81E-01 | 6,94E-02 | -2,20E+01 |
| PERM [MJ] | 0,00E+00 |
| PERT [MJ] | 1,07E+02 | 6,92E-01 | 1,85E-02 | 0.00E+00 | 1,23E-03 | 1,81E-01 | 6,94E-02 | -2,20E+01 |
| PENRE [MJ] | 2,41E+02 | 9,18E+00 | 2,69E-01 | 0.00E+00 | 3,72E-01 | 2,40E+00 | 6,15E-01 | -5,58E+01 |
| PENRM [MJ] | 8,94E+00 | 0,00E+00 |
| PENRT [MJ] | 2,50E+02 | 9,18E+00 | 2,69E-01 | 0.00E+00 | 3,72E-01 | 2,40E+00 | 6,15E-01 | -5,58E+01 |
| SM [kg] | 2,29E-01 | 0,00E+00 |
| RSF [MJ] | 0,00E+00 |
| NRSF [MJ] | 0,00E+00 |
| FW [m3] | 9,39E-02 | 3,42E-04 | 2,30E-05 | 0.00E+00 | 1,97E-06 | 8,92E-05 | 8,77E-05 | -1,84E-02 |

Table 8: Resource use indicator descriptions

| Acronym | Unit | Indicator |
|---------|------|---|
| PERE | MJ | Use of renewable primary energy excluding renewable primary energy resources used as raw materials |
| PERM | MJ | Use of renewable primary energy resources used as raw materials |
| PERT | MJ | Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials) |
| PENRE | MJ | Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials |
| PENRM | MJ | Use of non-renewable primary energy resources used as raw materials |
| PENRT | MJ | Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) |
| SM | kg | Use of secondary material |
| RSF | MJ | Use of renewable secondary fuels |
| NRSF | MJ | Use of non-renewable secondary fuels |
| FW | m³ | Net use of fresh water |



Table 9: Waste categories and output flows

| | A1-A3 | A4 | A5 | C1 | C2 | С3 | C4 | D |
|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| HWD [kg] | 2,35E-07 | 3,68E-10 | 4,49E-11 | 0,00E+00 | 2,56E-12 | 9,61E-11 | 8,17E-11 | -8,69E-09 |
| NHWD [kg] | 2,64E-01 | 1,28E-03 | 8,17E-02 | 0,00E+00 | 3,72E-05 | 3,34E-04 | 1,63E+00 | 5,91E-02 |
| RWD [kg] | 2,23E-02 | 1,73E-05 | 1,83E-06 | 0,00E+00 | 3,98E-07 | 4,52E-06 | 4,37E-06 | -4,94E-03 |
| CRU [kg] | 0,00E+00 |
| MFR [kg] | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,62E+00 | 0,00E+00 |
| MER [kg] | 0,00E+00 |
| EEE [MJ] | 2,51E-03 | 0,00E+00 |
| EET [MJ] | 0,00E+00 |

Table 10: Waste category and output flow descriptions

| Acronym | Unit | Indicator | |
|---------|------|-------------------------------|--|
| HWD | kg | Hazardous waste disposed | |
| NHWD | kg | Non-hazardous waste disposed | |
| RWD | kg | Radioactive waste disposed | |
| CRU | kg | Components for reuse | |
| MFR | kg | Materials for recycling | |
| MER | kg | Materials for energy recovery | |
| EEE | kg | Exported energy (electrical) | |
| EET | kg | ported energy (thermal) | |



Table 11: Additional indicators*

| | A1-A3 | A4 | A5 | C1 | C2 | С3 | C4 | D |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|
| PM [Disease incidences] | 4,30E-07 | 1,17E-08 | 7,99E-10 | 0,00E+00 | 2,14E-10 | 7,77E-09 | 2,88E-09 | -7,22E-08 |
| IRP [kBq U235 eq.] | 3,40E+00 | 2,49E-03 | 2,38E-04 | 0,00E+00 | 5,64E-05 | 6,49E-04 | 5,15E-04 | -7,34E-01 |
| ETPfw [CTUe] | 7,25E+01 | 1,19E+01 | 2,08E-01 | 0,00E+00 | 2,73E-01 | 3,11E+00 | 5,90E-01 | -1,88E+01 |
| HTPc [CTUh] | 7,95E-09 | 1,61E-10 | 3,59E-12 | 0,00E+00 | 5,01E-12 | 4,21E-11 | 9,39E-12 | -7,46E-10 |
| HTPnc [CTUh] | 1,16E-07 | 9,00E-09 | 2,41E-10 | 0,00E+00 | 1,64E-10 | 2,35E-09 | 2,96E-10 | -2,52E-08 |
| SQP [Pt] | 8,46E+01 | 4,06E+00 | 3,41E-02 | 0,00E+00 | 9,51E-04 | 1,06E+00 | 8,46E-02 | -1,40E+01 |

Table 12: Optional indicator descriptions

| Acronym | Unit | Indicator | | | | |
|---------|-------------------|--|--|--|--|--|
| PM | Disease incidence | Potential incidence of disease due to particulate matter emissions | | | | |
| IRP** | kBq U235 eq. | Potential human exposure efficiency relative to U235 | | | | |
| ETPfw* | CTUe | Potential Comparative Toxic Unit for ecosystems (fresh water) | | | | |
| HTPc* | CTUh | Potential Comparative Toxic Unit for humans (cancer) | | | | |
| HTPnc* | CTUh | Potential Comparative Toxic Unit for humans (non-cancer) | | | | |
| SQP* | Dimensionless | Potential soil quality index | | | | |

^{*}Disclaimer for ADPE, ADPE, WDP, ETPfw, HTPc, HTPnc, SQP: The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

^{**}Disclaimer for ionizing radiation: 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 nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.



Refrences

- CEN (2015). EN 50598-3:2015: Ecodesign for power drive systems, motor starters, power electronics and their driven applications Part 3: Quantitative eco design approach through life cycle assessment including product category rules and the content of environmental declarations. Brussels, Belgium: European Union Committee for Standardization.
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- ISO (2006a). ISO 14025:2006: Environmental labels and declarations Type III environmental declarations Principles and procedures. Geneva, Switzerland: International Organization for Standardization.
- ISO (2006b). ISO 14040:2006: Environmental management Life cycle assessment Principles and framework. Geneva, Switzerland: International Organization for Standardization.
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Danfoss Climate Solutions A/S

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Annex

Annex 1: The sales codes of all LENO™ ASV-BD covered in this EPD

Table 13: LENO™ ASV-BD codes, covered by this EPD

| Sales Code | Product Description | Total Gross Weight (kg) | Conversion factor |
|------------|---------------------|----------------------------|-------------------|
| 003Z4041 | ASV-BD DN15 Int. | 1,02 | 0,37 |
| 003Z4042 | ASV-BD DN20 | 1,12 | 0,41 |
| 003Z4043 | ASV-BD DN25 | 1,32 | 0,48 |
| 003Z4044 | ASV-BD DN32 | 2,11 | 0,77 |
| 003Z4045 | ASV-BD DN40 | 2,33 | 0,85 |
| 003Z4046 | ASV-BD DN50 | 2,74 | 1,00 |

To calculate the actual GWPT of purchased product, multiply the GWPT from this EPD with the conversion factor of the purchased product sales code.

Example:

Sales code: 003Z4044 Conversion factor: 0,77

GWPT A1-A3: 1,43E+01 kgCO2eq/product

Climate change A1-A3 0,77 x 1,43E+01 kgCO2eq = **1,10E+01 kgCO2eq**

GWPT A1-C4: 1,56E+01 kgCO2eq/product

Climate change A1-C4 0,77 x 1,56E+01 kgCO2eq = 1,20E+01 kgCO2eq