

Environmental Product Declaration - (EPD) PowerKon LT



The EPD data presented here is based on a verified EPD from the program holder EPD International AB. The data contained therein has been converted to the above-mentioned article number. (Verified EPD: EPD-IES-0012774)

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Fan Coils - PowerKon LT



Articlenumber: 129001120201N2

Basic data

| impact category | unit | A1 | A2 | A3 | A1-A3 | A4 | A5 | B2 | B3 | B4 | B6 | C1 | C2 | C3 | C4 | D |
|------------------|--------------|----------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| GWP - Total | kg CO2 eq | 8.34E+01 | 1.79E+00 | 7.54E+00 | 9.28E+01 | 3.36E+00 | 6.45E-01 | 5.50E-02 | 3.91E-02 | 1.57E+00 | 3.86E+01 | 0.00E+00 | 9.54E-02 | 2.61E+00 | 2.93E+00 | -2.91E+01 |
| GWP - fossil | kg CO2 eq | 8.27E+01 | 1.79E+00 | 7.92E+00 | 9.24E+01 | 3.36E+00 | 1.95E-01 | 5.24E-02 | 3.08E-02 | 1.56E+00 | 3.80E+01 | 0.00E+00 | 9.53E-02 | 2.61E+00 | 2.90E+00 | -2.87E+01 |
| GWP - Biogenic | kg CO2 eq | 2.22E-01 | 5.61E-04 | -4.09E-01 | -1.86E-01 | 5.53E-04 | 4.50E-01 | 2.11E-04 | 6.37E-05 | 3.91E-03 | 5.68E-01 | 0.00E+00 | 3.19E-05 | 2.67E-04 | 1.96E-02 | -6.71E-02 |
| GWP - Luluc | kg CO2 eq | 5.07E-01 | 8.63E-04 | 3.34E-02 | 5.41E-01 | 6.37E-04 | 1.10E-04 | 2.41E-03 | 8.28E-03 | 2.91E-03 | 6.31E-02 | 0.00E+00 | 4.65E-05 | 1.89E-04 | 6.34E-03 | -3.11E-01 |
| ODP | kg CFC-11 eq | 2.07E-06 | 3.91E-08 | 1.85E-07 | 2.30E-06 | 5.85E-08 | 2.07E-09 | 3.05E-09 | 1.03E-09 | 4.47E-08 | 3.50E-07 | 0.00E+00 | 2.16E-09 | 5.58E-08 | 3.49E-08 | -7.78E-07 |
| AP | mol H+ eq | 1.37E+00 | 7.52E-03 | 2.19E-02 | 1.40E+00 | 1.45E-02 | 7.71E-04 | 3.32E-04 | 2.37E-04 | 3.21E-02 | 8.31E-02 | 0.00E+00 | 2.36E-04 | 8.92E-04 | 1.96E-01 | -2.25E-01 |
| EP - fresh water | kg P eq | 8.64E-03 | 1.39E-05 | 6.62E-04 | 9.32E-03 | 1.18E-05 | 1.13E-05 | 4.39E-06 | 1.85E-06 | 2.39E-04 | 5.84E-03 | 0.00E+00 | 7.99E-07 | 5.66E-06 | 8.77E-04 | -1.66E-03 |
| EP - marine | kg P eq | 1.08E-01 | 2.01E-03 | 6.75E-03 | 1.17E-01 | 5.58E-03 | 1.57E-04 | 7.92E-05 | 5.24E-05 | 2.53E-03 | 1.56E-02 | 0.00E+00 | 6.29E-05 | 2.61E-04 | 1.02E-02 | -2.42E-02 |
| EP - country | mol N eq | 1.37E+00 | 2.16E-02 | 6.75E-02 | 1.46E+00 | 5.99E-02 | 1.59E-03 | 6.44E-04 | 3.54E-04 | 3.24E-02 | 1.97E-01 | 0.00E+00 | 6.60E-04 | 2.94E-03 | 1.45E-01 | -2.86E-01 |
| POCP | kg NMVOC | 4.99E-01 | 9.36E-03 | 1.89E-02 | 5.27E-01 | 2.00E-02 | 7.20E-04 | 1.88E-04 | 1.40E-04 | 1.11E-02 | 5.48E-02 | 0.00E+00 | 3.85E-04 | 8.32E-04 | 4.08E-02 | -1.34E-01 |
| ADPE | kg Sb eq | 1.67E-02 | 4.56E-06 | 1.03E-05 | 1.67E-02 | 2.93E-06 | 8.01E-07 | 3.96E-07 | 3.26E-07 | 5.60E-04 | 6.39E-05 | 0.00E+00 | 2.66E-07 | 9.12E-07 | 2.97E-03 | -1.23E-03 |
| ADPF | MJ | 1.18E+03 | 2.67E+01 | 1.20E+02 | 1.33E+03 | 4.61E+01 | 5.05E+00 | 1.00E+00 | 4.08E-01 | 2.57E+01 | 5.74E+02 | 0.00E+00 | 1.45E+00 | 1.41E+00 | 3.70E+01 | -3.74E+02 |
| WDP | m³ depriv. | 3.39E+01 | 1.20E-01 | 2.45E+00 | 3.65E+01 | 1.17E-01 | 2.31E-01 | 3.93E-02 | 1.22E-02 | 8.34E-01 | 1.40E+00 | 0.00E+00 | 6.91E-03 | 9.38E-02 | 3.01E+00 | -3.25E+00 |
| GWP-GHG | kg CO2 eq | 8.35E+01 | 1.79E+00 | 8.00E+00 | 9.33E+01 | 3.37E+00 | 1.96E-01 | 5.50E-02 | 3.92E-02 | 1.57E+00 | 3.86E+01 | 0.00E+00 | 9.55E-02 | 2.61E+00 | 2.92E+00 | -2.91E+01 |
| PM | disease inc. | 7.11E-06 | 1.61E-07 | 1.77E-07 | 7.45E-06 | 1.06E-07 | 1.22E-08 | 2.66E-09 | 2.50E-09 | 1.21E-07 | 3.24E-07 | 0.00E+00 | 9.41E-09 | 7.59E-09 | 4.70E-07 | -2.07E-06 |
| IR | kBq U-235 eq | 3.88E+00 | 1.20E-02 | 2.77E-01 | 4.17E+00 | 1.16E-02 | 4.00E-03 | 5.15E-03 | 4.52E-04 | 6.79E-02 | 2.15E+00 | 0.00E+00 | 6.96E-04 | 4.90E-03 | 1.51E-01 | -1.33E+00 |
| ETP - FW | CTUe | 1.78E+03 | 1.28E+01 | 2.70E+01 | 1.82E+03 | 2.24E+01 | 1.05E+00 | 6.15E-01 | 8.65E-01 | 5.38E+01 | 1.23E+02 | 0.00E+00 | 6.95E-01 | 2.35E+01 | 2.93E+02 | -1.62E+02 |
| HTP - C | CTUh | 4.02E-07 | 7.62E-10 | 2.35E-09 | 4.05E-07 | 6.44E-10 | 1.21E-09 | 3.33E-11 | 2.11E-11 | 5.13E-09 | 8.22E-09 | 0.00E+00 | 4.24E-11 | 4.15E-10 | 3.96E-08 | -1.28E-07 |
| HTP - NC | CTUh | 1.46E-05 | 1.86E-08 | 6.35E-08 | 1.46E-05 | 3.59E-08 | 5.79E-09 | 7.47E-10 | 5.21E-10 | 3.62E-07 | 2.54E-07 | 0.00E+00 | 1.03E-09 | 4.08E-09 | 3.18E-06 | -1.92E-06 |
| SQP | - | 5.08E+02 | 2.46E+01 | 6.74E+01 | 6.00E+02 | 1.50E+01 | 3.48E-01 | 5.09E-01 | 5.01E-01 | 1.28E+01 | 8.17E+01 | 0.00E+00 | 1.47E+00 | 3.97E-01 | 6.61E+01 | -7.04E+01 |

Fan Coils - PowerKon LT



Articlenumber: 129001120201N2

Resource use

| impact category | unit | A1 | A2 | A3 | A1-A3 | A4 | A5 | B2 | B3 | B4 | B6 | C1 | C2 | C3 | C4 | D |
|-----------------|------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| PERE | MJ | 2.18E+02 | 3.66E-01 | 5.10E+00 | 2.23E+02 | 3.13E-01 | 1.84E+01 | 2.83E-01 | 1.10E-01 | 2.75E+00 | 1.16E+02 | 0.00E+00 | 2.12E-02 | 1.65E-01 | 9.00E-02 | -8.79E+01 |
| PERM | MJ | 0.00E+00 | 0.00E+00 | 1.83E+01 | 1.83E+01 | 0.00E+00 | -1.83E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| PERT | MJ | 2.18E+02 | 3.66E-01 | 2.34E+01 | 2.41E+02 | 3.13E-01 | 1.34E-01 | 2.83E-01 | 1.10E-01 | 2.75E+00 | 1.16E+02 | 0.00E+00 | 2.12E-02 | 1.65E-01 | 9.00E-02 | -8.79E+01 |
| PENRE | MJ | 1.18E+03 | 2.67E+01 | 1.20E+02 | 1.33E+03 | 4.61E+01 | 5.05E+00 | 1.00E+00 | 4.08E-01 | 2.57E+01 | 5.74E+02 | 0.00E+00 | 1.45E+00 | 1.41E+00 | 1.26E+00 | -3.74E+02 |
| PENRM | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| PENRT | MJ | 1.18E+03 | 2.67E+01 | 1.20E+02 | 1.33E+03 | 4.61E+01 | 5.05E+00 | 1.00E+00 | 4.08E-01 | 2.57E+01 | 5.74E+02 | 0.00E+00 | 1.45E+00 | 1.41E+00 | 1.26E+00 | -3.74E+02 |
| SM | kg | 2.18E+00 | 0.00E+00 | 0.00E+00 | 2.18E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 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 | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| FW | m³ | 1.01E+00 | 4.98E-03 | 1.03E-01 | 1.12E+00 | 5.09E-03 | 3.12E-03 | 1.76E-03 | 5.07E-04 | 2.35E-02 | 2.20E-01 | 0.00E+00 | 2.87E-04 | 9.34E-02 | 2.85E-02 | -1.41E-01 |

Waste & Output Flows

| impact category | unit | A1 | A2 | A3 | A1-A3 | A4 | A5 | B2 | B3 | B4 | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| NHWD | kg | 0.00E+00 | 0.00E+00 | 1.44E+00 | 1.44E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 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 | 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 | 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 | 2.86E+00 | 2.86E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E+01 | 0.00E+00 | 0.00E+00 |
| MER | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.97E-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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.98E-01 |

Fan Coils - PowerKon LT



Articlenumber: 129001120201N2

| impact category | unit | A1 | A2 | A3 | A1-A3 | A4 | A5 | B2 | B3 | B4 | B6 | C1 | C2 | C3 | C4 | D |
|-----------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E+01 |

Restriction Notice

| | | |
|----------------------|---|---|
| Restriction Notice 1 | IR | 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. |
| Restriction Notice 2 | ADPE, ADPF, WDP, ETP - FW, HTP - C, HTP - NC, SQP | The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. |
| Restriction Notice 3 | GWP-GHG | 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+A1:2013 |

List of terms

| | |
|--|---|
| GWP - Total Climate change - total | RSF Renewable secondary fuels |
| GWP - fossil Climate change - fossil | NRSF Non-renewable secondary fuels |
| GWP - Biogenic Climate change - biogenic | FW Net use of fresh water |
| GWP - Luluc Climate change - land use and land use change | HWD Hazardous waste disposed |
| ODP Ozone Depletion | NHWD Non-hazardous waste disposed |
| AP Acidification | RWD Radioactive waste disposed |
| EP - fresh water Eutrophication aquatic freshwater | CRU Components for reuse |
| EP - marine Eutrophication aquatic marine | MFR Material for recycling |
| EP - country Eutrophication terrestrial | MER Materials for energy recovery |
| POCP Photochemical ozone formation | EE (Electrical) Exported energy electrical |
| ADPE Depletion of abiotic resources - minerals and metals | EE (Thermal) Exported energy thermal |
| ADPF Abiotic resource depletion - fossil fuels | A1 Raw Material Supply |
| WDP Water use | A2 Raw Material Transport |
| GWP-GHG Global Warming Potential total excl. biogenic carbon following IPCC AR5 methodology | A3 Manufacturing |
| PM Particulate Matter emissions | A1-A3 A1-A3 |
| IR Ionizing radiation, human health | A4 Transport to Site |
| ETP - FW Ecotoxicity (fresh water) | A5 Installation |
| HTP - C Human toxicity, cancer effects | B2 Maintenance |
| HTP - NC Human toxicity, non-cancer effects | B3 Repair |
| SQP Land use related impacts/Soil quality | B4 Replacement |
| PERE Use of renewable primary energy excluding resources used as raw materials | B6 Operational Energy Use |
| PERM Use of renewable primary energy resources used as raw materials | C1 Deconstruction / Demolition |
| PERT Total use of renewable primary energy | C2 Transport |
| PENRE Use of non-renewable primary energy excluding resources used as raw materials | C3 Waste Processing |
| PENRM Use of non-renewable primary energy resources used as raw materials | C4 Disposal |
| PENRT Total use of non-renewable primary energy | D Future reuse, recycling orenergy recovery potentials |
| SM Secondary material | |

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Articlenumber: 129001120201N2



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