

This appendix refers to the EPD MD-23024-EN, developed according to EN15804+A2:2019. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

Small AHU's with airflow 3000 m³/hr
Small AHU's with airflow 3,000 m³/hr, EN15804+A1

ENVIRONMENTAL EFFECTS PER PRODUKT PER M ²							
Parameter	Unit	A1-A3	C1	C2	C3	C4	D
GWP	[kg CO2-eq.]	3,45E+03	0,00E+00	5,43E+00	3,20E+01	2,23E+00	-1,64E+03
ODP	[kg CFC11-eq.]	4,30E-08	0,00E+00	6,49E-13	5,81E-10	4,90E-12	-1,73E-09
AP	[kg SO2-eq.]	1,17E+01	0,00E+00	4,82E-03	3,50E-02	8,86E-03	-5,52E+00
EP	[kg PO43--eq.]	9,49E-01	0,00E+00	1,00E-03	6,36E-03	4,37E-03	-3,36E-01
POCP	[kg ethene-eq.]	1,04E+00	0,00E+00	-1,80E-04	3,08E-03	7,42E-04	-5,25E-01
ADPE	[kg Sb-eq.]	1,10E-01	0,00E+00	5,66E-07	9,58E-06	1,99E-07	-6,80E-02
ADPF	[MJ]	3,85E+04	0,00E+00	7,28E+01	3,30E+02	3,15E+01	-1,69E+04
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources						

Small AHU's with airflow 3,000 m³/hr, EN15804+A1

RESSOURCE CONSUMPTION PER PRODUKT PER M ²							
Parameter	Unit	A1-A3	C1	C2	C3	C4	D
PERE	[MJ]	9,77E+03	0,00E+00	5,10E+00	2,08E+02	3,54E+00	-4,46E+03
PERM	[MJ]	3,43E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	1,01E+04	0,00E+00	5,10E+00	2,08E+02	3,54E+00	-4,46E+03
PENRE	[MJ]	4,30E+04	0,00E+00	7,39E+01	4,99E+02	3,26E+01	-1,95E+04
PENRM	[MJ]	7,96E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	4,30E+04	0,00E+00	7,39E+01	4,99E+02	3,26E+01	-1,95E+04
SM	[kg]	6,83E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	2,32E-22	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	2,73E-21	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	3,21E+01	0,00E+00	5,90E-03	1,35E-01	3,49E-03	-1,25E+01
Caption	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 = Net use of fresh water						

Small AHU's with airflow 3,000 m³/hr, EN15804+A1

WASTE CATEGORIES AND OUTPUT FLOWS PER PRODUKT PER M ²							
Parameter	Unit	A1-A3	C1	C2	C3	C4	D
HWD	[kg]	8,06E-05	0,00E+00	3,91E-10	4,25E-08	3,72E-09	-7,97E-07
NHWD	[kg]	4,02E+02	0,00E+00	1,20E-02	4,61E-01	8,48E+01	-9,43E+01
RWD	[kg]	1,33E+00	0,00E+00	1,37E-04	6,63E-02	3,86E-04	-1,03E+00
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	1,64E+02	0,00E+00	0,00E+00	5,66E+02	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,75E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	8,81E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Caption	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						

Large AHU's with airflow 15,000 m³/hr, EN15804+A1

ENVIRONMENTAL EFFECTS PER PRODUKT PER M ²							
Parameter	Unit	A1-A3	C1	C2	C3	C4	D
GWP	[kg CO2-eq.]	8,99E+03	0,00E+00	1,41E+01	8,00E+01	7,35E+00	-4,20E+03
ODP	[kg CFC11-eq.]	6,13E-08	0,00E+00	1,69E-12	1,44E-09	1,62E-11	-4,24E-09
AP	[kg SO2-eq.]	2,97E+01	0,00E+00	1,25E-02	8,71E-02	2,93E-02	-1,31E+01
EP	[kg PO43--eq.]	2,34E+00	0,00E+00	2,61E-03	1,59E-02	1,43E-02	-8,47E-01
POCP	[kg ethene-eq.]	2,68E+00	0,00E+00	-4,69E-04	7,67E-03	2,45E-03	-1,29E+00
ADPE	[kg Sb-eq.]	2,04E-01	0,00E+00	1,47E-06	2,38E-05	6,57E-07	-1,05E-01
ADPF	[MJ]	1,01E+05	0,00E+00	1,89E+02	8,18E+02	1,04E+02	-4,33E+04
Caption	GWP = Global warming potential; ODP = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources						

Large AHU's with airflow 15,000 m³/hr, EN15804+A1

RESSOURCE CONSUMPTION PER PRODUKT PER M ²							
Parameter	Unit	A1-A3	C1	C2	C3	C4	D
PERE	[MJ]	2,45E+04	0,00E+00	1,33E+01	5,18E+02	1,17E+01	-1,16E+04
PERM	[MJ]	8,06E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	2,53E+04	0,00E+00	1,33E+01	5,18E+02	1,17E+01	-1,16E+04
PENRE	[MJ]	1,10E+05	0,00E+00	1,92E+02	1,24E+03	1,07E+02	-5,03E+04
PENRM	[MJ]	2,54E+03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	1,13E+05	0,00E+00	1,92E+02	1,24E+03	1,07E+02	-5,03E+04
SM	[kg]	1,65E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	[MJ]	1,91E-22	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	[MJ]	2,24E-21	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	8,18E+01	0,00E+00	1,53E-02	3,38E-01	1,16E-02	-3,19E+01
Caption	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 = Net use of fresh water						

Large AHU's with airflow 15,000 m³/hr, EN15804+A1

WASTE CATEGORIES AND OUTPUT FLOWS PER PRODUKT PER M ²							
Parameter	Unit	A1-A3	C1	C2	C3	C4	D
HWD	[kg]	1,85E-04	0,00E+00	1,02E-09	1,06E-07	1,22E-08	-1,93E-06
NHWD	[kg]	1,10E+03	0,00E+00	3,14E-02	1,21E+00	2,81E+02	-3,22E+02
RWD	[kg]	3,51E+00	0,00E+00	3,57E-04	1,64E-01	1,27E-03	-2,77E+00
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	3,97E+02	0,00E+00	0,00E+00	1,41E+03	0,00E+00	0,00E+00
MER	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	4,42E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EET	[MJ]	2,33E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Caption	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						

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