

Subtype NIMBUS 110 M - ARIANEXT 110 M - AEROTOP MONO 11 - ENERGION M 11

Certificate Holder	Ariston Thermo Group
Address	Viale Aristide Merloni 45
ZIP	I-60044
City	Fabriano (AN)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	NIMBUS 110 M - ARIANEXT 110 M - AEROTOP MONO 11 - ENERGION M 11
Registration number	ICIM-PDC-000001
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.9 kg
Certification Date	19.12.2017

Model AEROTOP MONO 11M-R

Model name	AEROTOP MONO 11M-R
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model AEROTOP MONO 11M-RL

Model name	AEROTOP MONO 11M-RL
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT LITE 110 M-T LINK

Model name	ARIANEXT LITE 110 M-T LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT LITE 110 M-T

Model name	ARIANEXT LITE 110 M-T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT PLUS 110 M-T LINK

Model name	ARIANEXT PLUS 110 M-T LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
P _{rated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT PLUS 110 M-T

Model name	ARIANEXT PLUS 110 M-T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
P _{rated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS PLUS 110 M-T NET

Model name	NIMBUS PLUS 110 M-T NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
P _{rated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS POCKET 110 M-T NET

Model name	NIMBUS POCKET 110 M-T NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model AEROTOP MONO 11M-CR

Model name	AEROTOP MONO 11M-CR
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT COMPACT 110 M-T LINK

Model name	ARIANEXT COMPACT 110 M-T LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT FLEX 110 M-T - 300 LINK

Model name	ARIANEXT FLEX 110 M-T - 300 LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XXL
Efficiency η_{DHW}	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

EN 16147 | Colder Climate

Declared load profile	XXL
Efficiency η_{DHW}	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

EN 16147 | Warmer Climate

Declared load profile	XXL
Efficiency η_{DHW}	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

Model ARIANEXT FLEX 110 M-T LINK

Model name	ARIANEXT FLEX 110 M-T LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model NIMBUS COMPACT 110 M-T NET

Model name	NIMBUS COMPACT 110 M-T NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model NIMBUS FLEX 110 M-T - 300 NET

Model name	NIMBUS FLEX 110 M-T - 300 NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XXL
Efficiency η_{DHW}	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

EN 16147 | Colder Climate

Declared load profile	XXL
Efficiency η_{DHW}	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

EN 16147 | Warmer Climate

Declared load profile	XXL
Efficiency η_{DHW}	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

Model NIMBUS FLEX 110 M-T NET

Model name	NIMBUS FLEX 110 M-T NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT COMPACT 110 M-T

Model name	ARIANEXT COMPACT 110 M-T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

Model ARIANEXT FLEX 110 M-T - 300

Model name	ARIANEXT FLEX 110 M-T - 300
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:52 h:min
Standby power input	61.0 W
Reference hot water temperature	54.4 °C
Mixed water at 40°C	434 l

Model ARIANEXT FLEX 110 M-T

Model name	ARIANEXT FLEX 110 M-T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

Model AEROTOP MONO 11M-RX

Model name	AEROTOP MONO 11M-RX
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
P _{rated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model AEROTOP MONO 11M-RXL

Model name	AEROTOP MONO 11M-RXL
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT LITE 110 M LINK

Model name	ARIANEXT LITE 110 M LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT LITE 110 M

Model name	ARIANEXT LITE 110 M
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Pr _{ated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT PLUS 110 M LINK

Model name	ARIANEXT PLUS 110 M LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
P _{rated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT PLUS 110 M

Model name	ARIANEXT PLUS 110 M
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS PLUS 110 M NET

Model name	NIMBUS PLUS 110 M NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS POCKET 110 M NET

Model name	NIMBUS POCKET 110 M NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Pr _{ated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model AEROTOP MONO 11M-CRX

Model name	AEROTOP MONO 11M-CRX
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT COMPACT 110 M LINK

Model name	ARIANEXT COMPACT 110 M LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT FLEX 110 M LINK

Model name	ARIANEXT FLEX 110 M LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT FLEX 110 M - 300 LINK

Model name	ARIANEXT FLEX 110 M - 300 LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XXL
Efficiency η_{DHW}	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

EN 16147 | Colder Climate

Declared load profile	XXL
Efficiency η_{DHW}	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

EN 16147 | Warmer Climate

Declared load profile	XXL
Efficiency η_{DHW}	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

Model NIMBUS COMPACT 110 M NET

Model name	NIMBUS COMPACT 110 M NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model NIMBUS FLEX 110 M NET

Model name	NIMBUS FLEX 110 M NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model NIMBUS FLEX 110 M - 300 NET

Model name	NIMBUS FLEX 110 M - 300 NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XXL
Efficiency η_{DHW}	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

EN 16147 | Colder Climate

Declared load profile	XXL
Efficiency η_{DHW}	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

EN 16147 | Warmer Climate

Declared load profile	XXL
Efficiency η_{DHW}	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

Model ARIANEXT COMPACT 110 M

Model name	ARIANEXT COMPACT 110 M
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

Model ARIANEXT FLEX 110 M

Model name	ARIANEXT FLEX 110 M
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	127 %
COP	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247 l

Model ARIANEXT FLEX 110 M - 300

Model name	ARIANEXT FLEX 110 M - 300
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:52 h:min
Standby power input	61.0 W
Reference hot water temperature	54.4 °C
Mixed water at 40°C	434 l

Model ENERGION M PLUS 11

Model name	ENERGION M PLUS 11
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ENERGION M PLUS 11 T

Model name	ENERGION M PLUS 11 T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ENERGION M LIGHT 11

Model name	ENERGION M LIGHT 11
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ENERGION M LIGHT 11 T

Model name	ENERGION M LIGHT 11 T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ENERGION M FLEX 11 180 e

Model name	ENERGION M FLEX 11 180 e
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ENERGION M FLEX 11 T 180 e

Model name	ENERGION M FLEX 11 T 180 e
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ENERGION M FLEX 11 300 e

Model name	ENERGION M FLEX 11 300 e
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XXL
Efficiency η_{DHW}	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

EN 16147 | Colder Climate

Declared load profile	XXL
Efficiency η_{DHW}	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

EN 16147 | Warmer Climate

Declared load profile	XXL
Efficiency η_{DHW}	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

Model ENERGION M FLEX 11 T 300 e

Model name	ENERGION M FLEX 11 T 300 e
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XXL
Efficiency η_{DHW}	122 %
COP	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434 l

EN 16147 | Colder Climate

Declared load profile	XXL
Efficiency η_{DHW}	97 %
COP	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 l

EN 16147 | Warmer Climate

Declared load profile	XXL
Efficiency η_{DHW}	132 %
COP	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 l

Model ENERGION M COMPACT 11

Model name	ENERGION M COMPACT 11
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ENERGION M COMPACT 11 T

Model name	ENERGION M COMPACT 11 T
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ENERGION M HYBRIDall 11

Model name	ENERGION M HYBRIDall 11
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.45 kW	12.05 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ENERGION M HYBRIDall 11 T

Model name	ENERGION M HYBRIDall 11 T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.45 kW	12.05 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ATAG p ENERGION M HYBRIDzone 11

Model name	ATAG p ENERGION M HYBRIDzone 11
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.45 kW	12.05 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ATAG p ENERGION M HYBRIDzone 11 T

Model name	ATAG p ENERGION M HYBRIDzone 11 T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.45 kW	12.05 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ATAG i ENERGION M HYBRIDzone 11

Model name	ATAG i ENERGION M HYBRIDzone 11
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Pr _{ated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.45 kW	12.05 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ATAG i ENERGION M HYBRIDzone 11 T

Model name	ATAG i ENERGION M HYBRIDzone 11 T
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.45 kW	12.05 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS M HYBRID 11 NET

Model name	NIMBUS M HYBRID 11 NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS M HYBRID 11 T NET

Model name	NIMBUS M HYBRID 11 T NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS M HYBRID FLEX 11 NET

Model name	NIMBUS M HYBRID FLEX 11 NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model NIMBUS M HYBRID FLEX 11 T NET

Model name	NIMBUS M HYBRID FLEX 11 T NET
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model NIMBUS M HYBRID UNIVERSAL 11 NET

Model name	NIMBUS M HYBRID UNIVERSAL 11 NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS M HYBRID UNIVERSAL 11 T NET

Model name	NIMBUS M HYBRID UNIVERSAL 11 T NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
P _{rated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT M HYBRID 11 LINK

Model name	ARIANEXT M HYBRID 11 LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Pr _{ated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT M HYBRID 11 T LINK

Model name	ARIANEXT M HYBRID 11 T LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT M HYBRID FLEX 11 LINK

Model name	ARIANEXT M HYBRID FLEX 11 LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT M HYBRID FLEX 11 T LINK

Model name	ARIANEXT M HYBRID FLEX 11 T LINK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	106 %
COP	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	111 %
COP	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 l

Model ARIANEXT M HYBRID UNIVERSAL 11 LINK

Model name	ARIANEXT M HYBRID UNIVERSAL 11 LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model ARIANEXT M HYBRID UNIVERSAL 11 T LINK

Model name	ARIANEXT M HYBRID UNIVERSAL 11 T LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model AEROTOP HYBRID MINI EVO 11

Model name	AEROTOP HYBRID MINI EVO 11
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh
EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)
EN 14825 Warmer Climate		
	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model AEROTOP HYBRID UNIVERSAL 11

Model name	AEROTOP HYBRID UNIVERSAL 11
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.51 kW	0.08 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	18.17 kW	17.24 kW
η_s	150 %	113 %
Prated	18.17 kW	17.24 kW
SCOP	3.82	2.91
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	11.00 kW	10.44 kW
COP Tj = -7°C	3.46	2.73
Pdh Tj = +2°C	6.70 kW	6.35 kW
COP Tj = +2°C	3.46	3.83
Pdh Tj = +7°C	4.39 kW	4.19 kW
COP Tj = +7°C	6.60	5.06
Pdh Tj = 12°C	4.41 kW	4.27 kW
COP Tj = 12°C	8.45	7.06
Pdh Tj = Tbiv	11.00 kW	10.44 kW
COP Tj = Tbiv	3.46	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.76 kW	4.29 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W

Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11736 kWh	14608 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	7.96 kW	7.45 kW
η _s	245 %	161 %
P _{rated}	7.96 kW	7.45 kW
SCOP	6.21	4.10
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	7.96 kW	7.45 kW
COP T _j = +2°C	4.07	2.38
P _{dh} T _j = +7°C	5.36 kW	5.05 kW
COP T _j = +7°C	5.51	3.47
P _{dh} T _j = 12°C	4.40 kW	4.15 kW
COP T _j = 12°C	8.35	5.86
P _{dh} T _j = T _{biv}	7.96 kW	7.45 kW
COP T _j = T _{biv}	4.07	2.38
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	7.96 kW	7.45 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	4.07	2.38
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1714 kWh	2425 kWh

Model NIMBUS M FLEX IN 11 NET

Model name	NIMBUS M FLEX IN 11 NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.50 kW	0.10 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

Model NIMBUS M FLEX IN 11 T NET

Model name	NIMBUS M FLEX IN 11 T NET
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
P _{rated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.50 kW	0.10 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

Model ARIANEXT M FLEX IN 11 LINK

Model name	ARIANEXT M FLEX IN 11 LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Pr _{ated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.50 kW	0.10 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

Model ARIANEXT M FLEX IN 11 T LINK

Model name	ARIANEXT M FLEX IN 11 T LINK
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Pr _{ated}	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
P _{dh} T _j = +7°C	4.35 kW	4.00 kW
COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.50 kW	0.10 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

Model AEROTOP MONO BUILT-IN 11M-CRX

Model name	AEROTOP MONO BUILT-IN 11M-CRX
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.56 kW	11.55 kW
η _s	189 %	132 %
Prated	12.56 kW	11.55 kW
SCOP	4.80	3.38
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	11.11 kW	10.22 kW
COP T _j = -7°C	3.19	2.31
P _{dh} T _j = +2°C	6.77 kW	6.23 kW
COP T _j = +2°C	4.61	3.42
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COP T _j = 12°C	8.45	5.63
P _{dh} T _j = T _{biv}	11.11 kW	10.22 kW
COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.50 kW	0.10 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh

Model AEROTOP MONO BUILT-IN 11M-CR

Model name	AEROTOP MONO BUILT-IN 11M-CR
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825 | Average Climate

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COP T _j = +7°C	6.16	3.80
P _{dh} T _j = 12°C	4.41 kW	4.07 kW
COP T _j = 12°C	8.45	5.63
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COP T _j = T _{biv}	3.19	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.05 kW	11.47 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	2.05

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.50 kW	0.10 kW
Annual energy consumption Qhe	5411 kWh	7070 kWh