

Subtype NIMBUS 110 S - ARIANEXT 110 S - AEROTOP SPLIT 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 S - ARIANEXT 110 S - AEROTOP SPLIT 11
Registration number	ICIM-PDC-000001
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	4.3 kg
Certification Date	19.12.2017

Model AEROTOP SPLIT 11M-R

Model name	AEROTOP SPLIT 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model ARIANEXT PLUS 110 S-T LINK

Model name	ARIANEXT PLUS 110 S-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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model ARIANEXT PLUS 110 S-T

Model name	ARIANEXT PLUS 110 S-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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model NIMBUS PLUS 110 S-T NET

Model name	NIMBUS PLUS 110 S-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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model AEROTOP SPLIT 11M-CR

Model name	AEROTOP SPLIT 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT COMPACT 110 S-T LINK

Model name	ARIANEXT COMPACT 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT FLEX 110 S-T LINK

Model name	ARIANEXT FLEX 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT FLEX 110 S-T - 300 LINK

Model name	ARIANEXT FLEX 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model NIMBUS COMPACT 110 S-T NET

Model name	NIMBUS COMPACT 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model NIMBUS FLEX 110 S-T NET

Model name	NIMBUS FLEX 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model NIMBUS FLEX 110 S-T - 300 NET

Model name	NIMBUS FLEX 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT COMPACT 110 S-T

Model name	ARIANEXT COMPACT 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
Prated	12.29 kW	11.54 kW

SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model ARIANEXT FLEX 110 S-T

Model name	ARIANEXT FLEX 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
Prated	12.29 kW	11.54 kW

SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model ARIANEXT FLEX 110 S-T - 300

Model name	ARIANEXT FLEX 110 S-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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
Prated	12.29 kW	11.54 kW

SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model AEROTOP SPLIT 11M-RX

Model name	AEROTOP SPLIT 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model ARIANEXT PLUS 110 S LINK

Model name	ARIANEXT PLUS 110 S 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model ARIANEXT PLUS 110 S

Model name	ARIANEXT PLUS 110 S
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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model NIMBUS PLUS 110 S NET

Model name	NIMBUS PLUS 110 S 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW

COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
ηs	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
COP Tj = +7°C	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 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	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	8.21 kW	7.46 kW
η_s	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Q_{he}

1734 kWh

2436 kWh

Model AEROTOP SPLIT 11M-CRX

Model name	AEROTOP SPLIT 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT COMPACT 110 S LINK

Model name	ARIANEXT COMPACT 110 S 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT FLEX 110 S LINK

Model name	ARIANEXT FLEX 110 S 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT FLEX 110 S - 300 LINK

Model name	ARIANEXT FLEX 110 S - 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model NIMBUS COMPACT 110 S NET

Model name	NIMBUS COMPACT 110 S 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model NIMBUS FLEX 110 S NET

Model name	NIMBUS FLEX 110 S 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model NIMBUS FLEX 110 S - 300 NET

Model name	NIMBUS FLEX 110 S - 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η _s	187 %	135 %
P _{rated}	12.29 kW	11.54 kW
SCOP	4.74	3.46
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	10.87 kW	10.21 kW
COP T _j = -7°C	3.21	2.32
P _{dh} T _j = +2°C	6.67 kW	6.21 kW
COP T _j = +2°C	4.52	3.32
P _{dh} T _j = +7°C	4.33 kW	3.99 kW
COP T _j = +7°C	6.12	4.38
P _{dh} T _j = 12°C	4.42 kW	4.27 kW
COP T _j = 12°C	9.15	6.59
P _{dh} T _j = T _{biv}	10.87 kW	10.21 kW
COP T _j = T _{biv}	3.21	2.32
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	12.08 kW	10.36 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.80	1.82
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Q _{he}	5358 kWh	6891 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
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Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
P _{designh}	17.91 kW	17.01 kW
η _s	149 %	112 %
P _{rated}	17.91 kW	17.01 kW
SCOP	3.80	2.87
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	10.84 kW	10.30 kW
COP T _j = -7°C	3.45	2.71
P _{dh} T _j = +2°C	6.59 kW	6.21 kW
COP T _j = +2°C	4.91	3.76
P _{dh} T _j = +7°C	4.37 kW	4.03 kW
COP T _j = +7°C	6.56	5.04
P _{dh} T _j = 12°C	4.42 kW	4.28 kW
COP T _j = 12°C	9.15	7.64
P _{dh} T _j = T _{biv}	10.84 kW	10.30 kW
COP T _j = T _{biv}	3.45	2.71
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	8.78 kW	4.30 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.20	0.92
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}	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Q _{he}	11631 kWh	14593 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
P _{designh}	8.21 kW	7.46 kW
η _s	250 %	161 %

Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Model ARIANEXT COMPACT 110 S

Model name	ARIANEXT COMPACT 110 S
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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
Prated	12.29 kW	11.54 kW

SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model ARIANEXT FLEX 110 S

Model name	ARIANEXT FLEX 110 S
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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
Prated	12.29 kW	11.54 kW

SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model ARIANEXT FLEX 110 S - 300

Model name	ARIANEXT FLEX 110 S - 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

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
COP	5.15	3.17

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
P _{designh}	12.29 kW	11.54 kW
η_s	187 %	135 %
Prated	12.29 kW	11.54 kW

SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh