

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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
η_s	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 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
Pdesignh	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

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
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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
Pdesignh	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
Pdesignh	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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
η_s	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
ηs	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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

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
Pdesignh	17.91 kW	17.01 kW
η_s	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 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
Pdesignh	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
Pdesignh	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
Pdesignh	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
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