Subtype NIMBUS 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X

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 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X
Registration number	ICIM-PDC-000001
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.3 kg
Certification Date	19.12.2017

Model AEROTOP SPLIT 05M-RX

Model name	AEROTOP SPLIT 05M-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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW

COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %
Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Qhe	754 kWh	1018 kWh

Model ARIANEXT PLUS 50 S LINK	
Model name	ARIANEXT PLUS 50 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW

COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %
Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Qhe	754 kWh	1018 kWh

Model ARIANEXT PLUS 50 S	
Model name	ARIANEXT PLUS 50 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW

COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %
Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Qhe	754 kWh	1018 kWh

Model NIMBUS PLUS 50 S NET	
Model name	NIMBUS PLUS 50 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW

COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %
Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Annual energy consumption Qhe	754 kWh	1018 kWh

Model AEROTOP SPLIT 05M-CRX	
Model name	AEROTOP SPLIT 05M-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 ηDHW	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241 l

EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240 l

EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	242 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature

Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %

Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

Model ARIANEXT COMPACT 50 S LINK	
Model name	ARIANEXT COMPACT 50 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 ηDHW	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241 l

EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240 l

EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	242 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature

Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %

Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

Model ARIANEXT FLEX 50 S LINK	
Model name	ARIANEXT FLEX 50 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 ηDHW	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241 l

EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240 l

EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	242 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature

Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %

Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

Model NIMBUS COMPACT 50 S NET

Model name	NIMBUS COMPACT 50 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 ηDHW	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency ηDHW	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency ηDHW	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	242 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature

Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %

Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

Model NIMBUS FLEX 50 S NET	
Model name	NIMBUS FLEX 50 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 ηDHW	107 %
COP	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241 l

EN 16147 | Colder Climate	
Declared load profile	XL
Efficiency ηDHW	95 %
COP	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240 l

EN 16147 | Warmer Climate	
Declared load profile	XL
Efficiency ηDHW	133 %
COP	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	242 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature

Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
ηs	149 %	118 %
Prated	7.98 kW	8.55 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
Pdesignh	3.48 kW	2.99 kW
ηs	243 %	154 %

Prated	3.48 kW	2.99 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

Model ARIANEXT COMPACT 50 S	
Model name	ARIANEXT COMPACT 50 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 ηDHW	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW

SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

Model ARIANEXT FLEX 50 S

Model name	ARIANEXT FLEX 50 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 ηDHW	131 %
COP	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2.88

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
ηs	189 %	138 %
Prated	5.79 kW	6.05 kW

SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh