Summary of	NIMBUS 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X	Reg. No.	ICIM-PDC-000001
Certificate Holder			
Name	Ariston Thermo Group		
Address	Viale Aristide Merloni 45	Zip	I-60044
City	Fabriano (AN)	Country	Italy
Certification Body	ICIM S.p.A.		
Name of testing laboratory	-Transition Rules-		
Subtype title	NIMBUS 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.3 kg		
Certification Date	19.12.2017		

Model: AEROTOP SPLIT 05M-RX

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Model: ARIANEXT PLUS 50 S LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Model: ARIANEXT PLUS 50 S

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Model: NIMBUS PLUS 50 S NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Model: AEROTOP SPLIT 05M-CRX

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

EN 16147	
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

Model: ARIANEXT COMPACT 50 S LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

EN 16147	
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

Model: ARIANEXT FLEX 50 S LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

EN 16147	
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

Model: NIMBUS COMPACT 50 S NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

EN 16147	
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

Model: NIMBUS FLEX 50 S NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Warmer Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**

Pdesignh	3.48 kW	2.99 kW
η_s	243 %	154 %
Prated	4.50 kW	3.80 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	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	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

Colder Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	7.98 kW	8.55 kW
η_s	149 %	118 %
Prated	4.20 kW	3.90 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	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Warmer Climate

EN 16147	
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

Colder Climate

EN 16147	
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

Model: ARIANEXT COMPACT 50 S

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Model: ARIANEXT FLEX 50 S

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.79 m³/h	0.42 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1		
	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		
	Low temperature	**Medium temperature**
Pdesignh	5.79 kW	6.05 kW
η_s	189 %	138 %
Prated	4.40 kW	3.80 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	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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