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Summary of	NIMBUS 50 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5	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 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.88 kg		
Certification Date	19.12.2017		



Model: AEROTOP MONO 05M-RX 1Z

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	
СОР	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



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

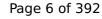
EN 14825		
	Low temperature	Medium temperature





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Pdesignh	3.47 kW	2.98 kW
l s	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
ГЬіν	2 °C	2 °C
ΓOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



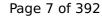


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was generated by the Hr KETMANK database on 17 Dec 2020			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = +7°C	1.95 kW	2.03 kW	
$COPTj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL	3.69 kW	3.18 kW	
COP Tj = TOL	2.29	1.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
РСК	13 W	13 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	3.96 kW	4.00 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	



Model: AEROTOP MONO 05M-RX 2Z

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
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

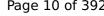
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





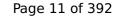
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5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
electricity	electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W electricity 0.77 kW

Warmer Climate

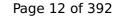
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



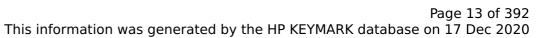


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





Inis information was	generated by the HP K	EYMARK database on 17 Dec 202
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: AEROTOP MONO 05M-RXL

Genera	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
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

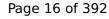
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	
	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



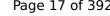


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

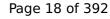
EN 1	4825	
	Low temperature	Medium temperature





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Pdesignh	3.47 kW	2.98 kW
l s	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
ГЬіν	2 °C	2 °C
ΓOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



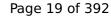


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: AEROTOP MONO 05M-X 1Z

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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

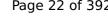
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





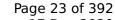
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5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
electricity	electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W electricity 0.77 kW

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



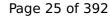


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





	enerated by the Hill KETI	TANK database on 17 Dec 202
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: AEROTOP MONO 05M-X 2Z

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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

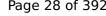
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate

 $$\operatorname{\textit{Page}}\xspace$ 27 of 392 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

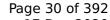
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

This information was ge	Terated by the Hi KETH	The database on 17 Dec 2020
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ARIANEXT LITE 50 M 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

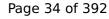
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



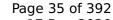


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



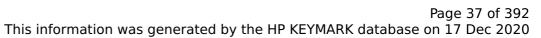


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was generated by the HP KEYMARK database on 17 Dec 2020				
COP Tj = -7°C	3.46	2.71		
Pdh Tj = +2°C	2.98 kW	3.17 kW		
$COP Tj = +2^{\circ}C$	5.11	3.89		
Pdh Tj = $+7$ °C	1.95 kW	2.03 kW		
$COP Tj = +7^{\circ}C$	6.93	4.95		
Pdh Tj = 12°C	1.61 kW	1.60 kW		
COP Tj = 12°C	7.88	6.35		
Pdh Tj = Tbiv	4.89 kW	5.19 kW		
COP Tj = Tbiv	3.46	2.71		
Pdh Tj = TOL	3.69 kW	3.18 kW		
COP Tj = TOL	2.29	1.54		
Cdh	0.90	0.90		
WTOL	60 °C	60 °C		
Poff	13 W	13 W		
РТО	13 W	13 W		
PSB	13 W	13 W		
PCK	13 W	13 W		
Supplementary Heater: Type of energy input	electricity	electricity		
Supplementary Heater: PSUP	3.96 kW	4.00 kW		
Annual energy consumption Qhe	5175 kWh	7004 kWh		
3, 11 11 , 11 11				



Model: ARIANEXT LITE 50 M

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	
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



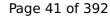


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
l s	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
ГЬіν	2 °C	2 °C
ΓOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



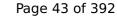


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was generated by the Hr KLIMAKK database on 17 Dec 2020			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = +7°C	1.95 kW	2.03 kW	
$COPTj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL	3.69 kW	3.18 kW	
COP Tj = TOL	2.29	1.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
РСК	13 W	13 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	3.96 kW	4.00 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	



Model: ARIANEXT PLUS 50 M 2Z H 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	
СОР	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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



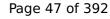


	·	
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



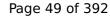


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ARIANEXT PLUS 50 M 2Z H

General Data	
Power supply	1x230V 50Hz

Heating

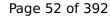
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



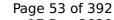


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

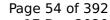
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



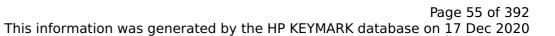


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





	enerated by the Hill KETI	TANK database on 17 Dec 202
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ARIANEXT PLUS 50 M 2Z 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	
СОР	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	

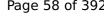
Average Climate



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





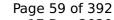
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5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
electricity	electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W electricity 0.77 kW

Warmer Climate

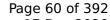
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was generated by the Hr KETMANK database on 17 Dec 2020			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = +7°C	1.95 kW	2.03 kW	
$COP Tj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL	3.69 kW	3.18 kW	
COP Tj = TOL	2.29	1.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
РСК	13 W	13 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	3.96 kW	4.00 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	



Model: ARIANEXT PLUS 50 M 2Z

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	
СОР	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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



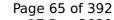


5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
electricity	electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W 13 W 0.77 kW

Warmer Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was generated by the Hir KETMAKK database on 17 Dec 2020			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = +7°C	1.95 kW	2.03 kW	
$COP Tj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL	3.69 kW	3.18 kW	
COP Tj = TOL	2.29	1.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
РСК	13 W	13 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	3.96 kW	4.00 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	



Model: ARIANEXT PLUS 50 M H 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

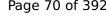
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





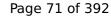
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		-
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



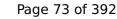


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ARIANEXT PLUS 50 M H

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	
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was ge	Heratea by the Hi KETH	ANN database on 17 Dec 2020
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ARIANEXT PLUS 50 M 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

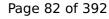
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



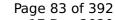


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



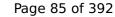


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was ge	Terated by the Hi KETH	The database on 17 Dec 2020
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ARIANEXT PLUS 50 M

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
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

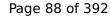
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

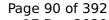
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



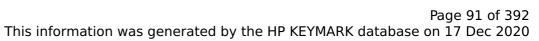


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





	Tierated by the HE KLIM	ARK database on 17 Dec 2020
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	1	·



Model: NIMBUS PLUS 50 M 2Z H 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	
СОР	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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



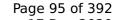


	T	Third database on 17 Bee 2020
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





ins mornation was gen	iciated by the in item.	Time database on 17 Dec 2020
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
t		



Model: NIMBUS PLUS 50 M 2Z 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

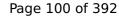
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



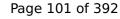


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: NIMBUS PLUS 50 M H 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	
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: NIMBUS PLUS 50 M 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

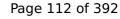
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



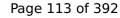


	,	THIN GUIDAGE ON 17 DEC 2020
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

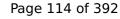
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



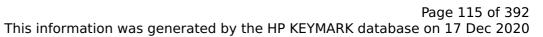


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





Inis information was	generated by the HP K	EYMARK database on 17 Dec 202
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Model: NIMBUS POCKET 50 M 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

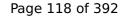
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



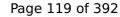


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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		2.71
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: AEROTOP MONO 05M-CRX 1Z

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
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

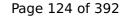
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



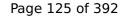


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



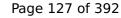


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

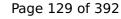
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246 I

Model: AEROTOP MONO 05M-CRX 2Z

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
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

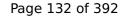
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



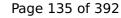


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)



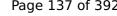
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246 I

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 137 of 392 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246



Model: ARIANEXT COMPACT 50 M 2Z 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

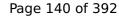
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



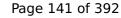


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



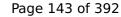


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
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Domestic Hot Water (DHW)

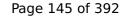
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

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	246 I

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246	



Model: ARIANEXT COMPACT 50 M 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
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



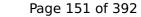


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
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Domestic Hot Water (DHW)



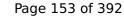
Average Climate

EN 16147	
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Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246



Model: ARIANEXT FLEX 50 M 2Z H 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	
СОР	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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



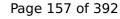


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)



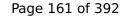
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246



Model: ARIANEXT FLEX 50 M 2Z 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
СОР	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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



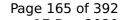


5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
electricity	electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W 13 W 0.77 kW

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



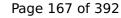


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)



Average Climate

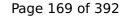
This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246	



Model: ARIANEXT FLEX 50 M H 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

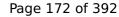
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



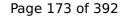


	,	THIN GUILDAGE ON 17 DEC 2020
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



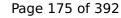


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





ins mornation was gen		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
<u> </u>		

Domestic Hot Water (DHW)



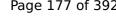
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	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	246	

Colder Climate





 $$\operatorname{\textit{Page}}\xspace$ 177 of 392 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246 I



Model: ARIANEXT FLEX 50 M 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	
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



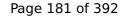


This information was generated by the Information of the Education of the		
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

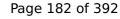
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



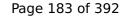


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	EN 14825		
Low temperature	Medium temperature		
8.08 kW	8.58 kW		
151 %	118 %		
4.20 kW	3.90 kW		
3.85	3.02		
-7 °C	-7 °C		
-20 °C	-20 °C		
4.89 kW	5.19 kW		
	8.08 kW 151 % 4.20 kW 3.85 -7 °C		





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

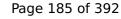
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	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	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246	



Model: NIMBUS COMPACT 50 M 2Z 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

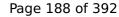
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
Shutting off the heat transfer medium flow		
Complete power supply failure		
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



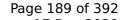


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



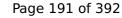


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
8.08 kW	8.58 kW	
151 %	118 %	
4.20 kW	3.90 kW	
3.85	3.02	
-7 °C	-7 °C	
-20 °C	-20 °C	
4.89 kW	5.19 kW	
	8.08 kW 151 % 4.20 kW 3.85 -7 °C	





	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

Average Climate

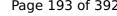
This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246 I

Colder Climate





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EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246

Model: NIMBUS COMPACT 50 M 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
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





	,	THIN GUILDAGE ON 17 DEC 2020
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





		2.71
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	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	246 I	

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246	



Model: NIMBUS FLEX 50 M 2Z H NET

General Data	
Power supply	1x230V 50Hz

Heating

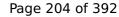
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



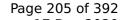


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

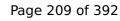
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	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	246 I	

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246



Model: NIMBUS FLEX 50 M 2Z 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

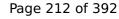
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure		
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



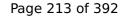


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

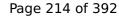
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



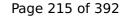


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





ins mornation was gen		
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
1		

Domestic Hot Water (DHW)



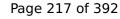
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	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	246	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246 I	



Model: NIMBUS FLEX 50 M H 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
СОР	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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



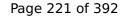


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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



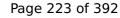


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)



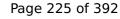
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246



Model: NIMBUS FLEX 50 M NET

General Data		
Power supply	1x230V 50Hz	

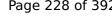
Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	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	

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





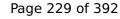
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5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
electricity	electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W electricity 0.77 kW

Warmer Climate

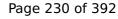
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



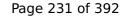


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

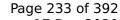
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246 I



Model: ARIANEXT COMPACT 50 M 2Z

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
СОР	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	

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

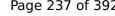
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	131 %
СОР	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 I



Model: ARIANEXT COMPACT 50 M

General Data	
Power supply	1x230V 50Hz

Heating

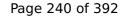
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

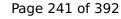
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	131 %
СОР	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 M 2Z H

General Data	
Power supply	1x230V 50Hz

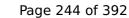
Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	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	

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

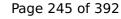
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	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 M 2Z

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	
СОР	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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





	·	
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	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 M H

General Data	
Power supply	1x230V 50Hz

Heating

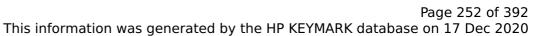
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

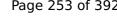
	EN 14825	
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	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 I	



Model: ARIANEXT FLEX 50 M

General Data		
Power supply	1x230V 50Hz	

Heating

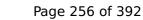
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

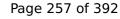
EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	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: ENERGION M PLUS 5

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	
СОР	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	

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



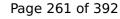


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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



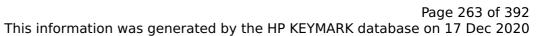


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





2.71 3.17 kW 3.89 2.03 kW 4.95 1.60 kW 6.35 5.19 kW
3.89 2.03 kW 4.95 1.60 kW 6.35 5.19 kW
2.03 kW 4.95 1.60 kW 6.35 5.19 kW
4.95 1.60 kW 6.35 5.19 kW
1.60 kW 6.35 5.19 kW
6.35 5.19 kW
5.19 kW
2.71
1
3.18 kW
1.54
0.90
60 °C
13 W
13 W
13 W
13 W
electricity
4.00 kW
7004 kWh



Model: ENERGION M PLUS 5 2Z

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
СОР	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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





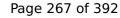
$$\operatorname{\textit{Page}}\xspace$ 266 of 392 This information was generated by the HP KEYMARK database on 17 Dec 2020

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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W



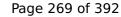


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
8.08 kW	8.58 kW	
151 %	118 %	
4.20 kW	3.90 kW	
3.85	3.02	
-7 °C	-7 °C	
-20 °C	-20 °C	
4.89 kW	5.19 kW	
	8.08 kW 151 % 4.20 kW 3.85 -7 °C	





<u> </u>	•	
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
		-



Model: ENERGION M COMPACT 5

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	
СОР	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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



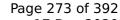


5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
electricity	electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W 13 W 0.77 kW

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



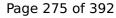


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)



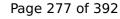
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	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	246	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246	



Model: ENERGION M COMPACT 5 2Z

General Data	
Power supply	1x230V 50Hz

Heating

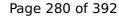
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



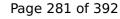


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Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Warmer Climate

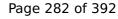
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W



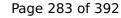


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

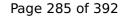
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246	

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	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246	



Model: ENERGION M FLEX 180 e

General Data	
Power supply	1x230V 50Hz

Heating

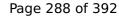
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



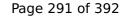


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
COP Tj = +7°C	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

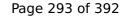
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

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	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246	



Model: ENERGION M FLEX 5 2Z 180 e

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	
СОР	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	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





This morniation was generated by the in RETHAMME database on 17 Dec 202		
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

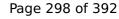
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W





PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Domestic Hot Water (DHW)

Average Climate

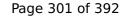
This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246



Model: ENERGION M LIGHT 5

General Data	
Power supply	1x230V 50Hz

Heating

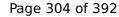
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



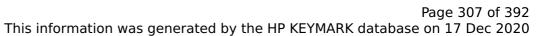


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





98 kW 11 95 kW	2.71 3.17 kW 3.89 2.03 kW
11 95 kW 93	3.89 2.03 kW
95 kW 93	2.03 kW
93	
	4.95
61 kW	
	1.60 kW
88	6.35
89 kW	5.19 kW
46	2.71
69 kW	3.18 kW
29	1.54
90	0.90
) °C	60 °C
3 W	13 W
ectricity	electricity
96 kW	4.00 kW
175 kWh	7004 kWh
88 41 66 21 91 33 1 1 ee	8 9 kW 6 9 kW 9 0 °C W W W w ctricity 6 kW



Model: ENERGION M HYBRIDall 5

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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

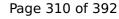
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



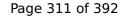


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

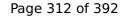
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ATAG p ENERGION M HYBRIDzone 5

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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

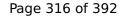
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



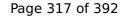


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

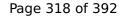
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





	illerated by the HF KLTM	IARK database on 17 Dec 2020
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	*	•



Model: ATAG i ENERGION M HYBRIDzone 5

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
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



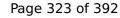


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	8.08 kW	8.58 kW	
η_{s}	151 %	118 %	
Prated	4.20 kW	3.90 kW	
SCOP	3.85	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.89 kW	5.19 kW	





This information was generated by the HP KETMARK database on 17 Dec 2020			
COP Tj = -7°C	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = +7°C	1.95 kW	2.03 kW	
$COP Tj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL	3.69 kW	3.18 kW	
COP Tj = TOL	2.29	1.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
PCK	13 W	13 W	
Supplementary Heater: Type of energy input	gas	gas	
Supplementary Heater: PSUP	3.96 kW	4.95 kW	
Annual energy consumption Qhe	5175 kWh	7004 kWh	
	•		



Model: NIMBUS M HYBRID 5 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

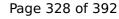
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

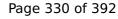
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
l s	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
ГЬіν	2 °C	2 °C
ΓOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	I .	



Model: NIMBUS M HYBRID FLEX 5 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	
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



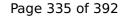


This information was generated by the Fire RETPARK database on 17 Dec 202			
Pdh Tj = Tbiv	5.13 kW	5.19 kW	
COP Tj = Tbiv	3.15	2.26	
Pdh Tj = TOL	5.03 kW	5.00 kW	
COP Tj = TOL	2.82	2.14	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
PCK	13 W	13 W	
Supplementary Heater: Type of energy input	gas	gas	
Supplementary Heater: PSUP	0.77 kW	0.86 kW	
Annual energy consumption Qhe	2678 kWh	3646 kWh	

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



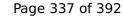


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	•	

Domestic Hot Water (DHW)



Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	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	246 I	

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	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	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	246 I	

Model: NIMBUS M HYBRID UNIVERSAL 5 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	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

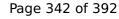
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



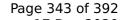


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: ARIANEXT M HYBRID 5 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
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
n _s	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
ГЬіν	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

3.46 2.98 kW	2.71
2.98 kW	
	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
gas	gas
3.96 kW	4.00 kW
5175 kWh	7004 kWh
	1.95 kW 6.93 1.61 kW 7.88 4.89 kW 3.46 3.69 kW 2.29 0.90 60 °C 13 W 13 W 13 W 13 W 13 W 3.96 kW



Model: ARIANEXT M HYBRID FLEX 5 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
СОР	5.02	2.88
Indoor water flow rate	0.79 m³/h	0.42 m³/h

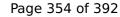
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



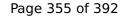


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
	•	

Domestic Hot Water (DHW)



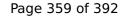
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	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	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	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	246 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	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	246



Model: ARIANEXT M HYBRID UNIVERSAL 5 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	
СОР	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	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





This information was g	generated by the HP KEYN	IARK database on 17 Dec 202
P Tj = -7°C	3.46	2.71
Tj = +2°C	2.98 kW	3.17 kW
PTj = +2°C	5.11	3.89
Tj = +7°C	1.95 kW	2.03 kW
PTj = +7°C	6.93	4.95
Tj = 12°C	1.61 kW	1.60 kW
PTj = 12°C	7.88	6.35
Tj = Tbiv	4.89 kW	5.19 kW
P Tj = Tbiv	3.46	2.71
Tj = TOL	3.69 kW	3.18 kW
P Tj = TOL	2.29	1.54
	0.90	0.90
DL	60 °C	60 °C
:	13 W	13 W
	13 W	13 W
	13 W	13 W
	13 W	13 W
plementary Heater: Type of energy input	gas	gas
plementary Heater: PSUP	3.96 kW	4.00 kW
ual energy consumption Qhe	5175 kWh	7004 kWh



Model: AEROTOP HYBRID MINI EVO 05X

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	
СОР	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



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





	T .	
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

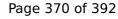
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: AEROTOP HYBRID MINI EVO 5

General Data	
Power supply	1x230V 50Hz

Heating

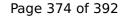
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	
Indoor water flow rate	0.79 m³/h	0.42 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



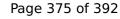


	·	
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

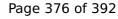
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW





	ineraced by the Hr KLIN	IARK database on 17 Dec 202
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL	3.69 kW	3.18 kW
COP Tj = TOL	2.29	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh
Annual energy consumption Qhe	5175 kWh	7004 kWh



Model: AEROTOP HYBRID UNIVERSAL 5

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
СОР	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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



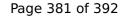


Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	4.50 kW	3.17 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
Pdh Tj = TOL	3.47 kW	2.98 kW
COP Tj = TOL	3.88	2.33
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
η_{s}	151 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW



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This information was generated by the HP KEYMARK database on 17 Dec 2020

3.46	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
gas	gas
3.96 kW	4.00 kW
5175 kWh	7004 kWh
	2.98 kW 5.11 1.95 kW 6.93 1.61 kW 7.88 4.89 kW 3.46 3.69 kW 2.29 0.90 60 °C 13 W 13 W 13 W 13 W 13 W 9as 3.96 kW



Model: NIMBUS M FLEX IN 5 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
СОР	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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



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This information was generated by the HP KEYMARK database on 17 Dec 2020

	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: ARIANEXT M FLEX IN 5 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
СОР	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



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



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This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: AEROTOP MONO BUILT-IN 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
СОР	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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	4.40 kW	3.80 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



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This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL	5.03 kW	5.00 kW
COP Tj = TOL	2.82	2.14
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	gas	gas
Supplementary Heater: PSUP	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh