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

Summary of	NIMBUS 90 S - ARIANEXT 90 S - AEROTOP SPLIT 09	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 90 S - ARIANEXT 90 S - AEROTOP SPLIT 09		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4.3 kg		
Certification Date	19.12.2017		



Model: AEROTOP SPLIT 09M-R

General Data		
Power supply 3x230V 50Hz		

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



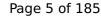


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

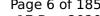
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





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PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





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This information was generated by the Hr KETMAKK database on 17 Dec 202			
COP Tj = -7°C	3.65	2.75	
Pdh Tj = +2°C	5.53 kW	4.86 kW	
COP Tj = +2°C	5.01	3.60	
Pdh Tj = +7°C	3.71 kW	3.61 kW	
$COP Tj = +7^{\circ}C$	6.51	5.09	
Pdh Tj = 12°C	4.44 kW	4.30 kW	
COP Tj = 12°C	9.48	7.53	
Pdh Tj = Tbiv	9.06 kW	8.30 kW	
COP Tj = Tbiv	3.65	2.75	
Pdh Tj = TOL	6.33 kW	2.07 kW	
COP Tj = TOL	2.17	0.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
РТО	19 W	19 W	
PSB	18 W	18 W	
PCK	18 W	18 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	6.00 kW	6.00 kW	
Annual energy consumption Qhe	9620 kWh	12389 kWh	



Model: ARIANEXT PLUS 90 S-T LINK

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 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	

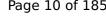
Average Climate



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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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





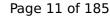
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Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

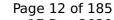
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
Low temperature	Medium temperature	
14.97 kW	13.72 kW	
150 %	106 %	
6.90 kW	6.20 kW	
3.84	2.73	
-7 °C	-7 °C	
-20 °C	-20 °C	
9.06 kW	8.30 kW	
	Low temperature 14.97 kW 150 % 6.90 kW 3.84 -7 °C -20 °C	



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COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh



Model: ARIANEXT PLUS 90 S-T

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 m³/h

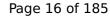
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



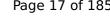


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

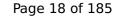
EN 14825		
	Low temperature	Medium temperature





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Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



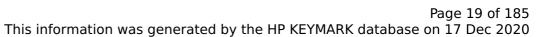


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
Low temperature	Medium temperature	
14.97 kW	13.72 kW	
150 %	106 %	
6.90 kW	6.20 kW	
3.84	2.73	
-7 °C	-7 °C	
-20 °C	-20 °C	
9.06 kW	8.30 kW	
	Low temperature 14.97 kW 150 % 6.90 kW 3.84 -7 °C -20 °C	





This information was generated by the HP RETMARK database on 17 Dec 2020			
COP Tj = -7°C	3.65	2.75	
Pdh Tj = +2°C	5.53 kW	4.86 kW	
COP Tj = +2°C	5.01	3.60	
Pdh Tj = +7°C	3.71 kW	3.61 kW	
$COP Tj = +7^{\circ}C$	6.51	5.09	
Pdh Tj = 12°C	4.44 kW	4.30 kW	
COP Tj = 12°C	9.48	7.53	
Pdh Tj = Tbiv	9.06 kW	8.30 kW	
COP Tj = Tbiv	3.65	2.75	
Pdh Tj = TOL	6.33 kW	2.07 kW	
COP Tj = TOL	2.17	0.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
РТО	19 W	19 W	
PSB	18 W	18 W	
PCK	18 W	18 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	6.00 kW	6.00 kW	
Annual energy consumption Qhe	9620 kWh	12389 kWh	
	·		



Model: NIMBUS PLUS 90 S-T NET

General Data	
Power supply 3x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 m³/h

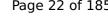
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





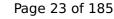
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Pdh Tj = Tbiv 9.18 kW 8.30 kW COP Tj = Tbiv 3.32 2.32 Pdh Tj = TOL 9.16 kW 9.73 kW COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW Annual energy consumption Qhe 4468 kWh 5700 kWh			
Pdh Tj = TOL 9.16 kW 9.73 kW COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	COP Tj = Tbiv	3.32	2.32
Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Pdh Tj = TOL	9.16 kW	9.73 kW
WTOL 60 °C 60 °C Poff 18 W 18 W 19 W 19 W PSB 18 W 18 W 18 W PCK 18 W 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	COP Tj = TOL	2.78	1.73
Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Cdh	0.90	0.90
PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity supplementary Heater: PSUP 1.22 kW 0.00 kW	WTOL	60 °C	60 °C
PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Poff	18 W	18 W
PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	РТО	19 W	19 W
Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	PSB	18 W	18 W
Supplementary Heater: PSUP 1.22 kW 0.00 kW	PCK	18 W	18 W
	Supplementary Heater: Type of energy input	electricity	electricity
Annual energy consumption Qhe 4468 kWh 5700 kWh	Supplementary Heater: PSUP	1.22 kW	0.00 kW
	Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





This information was generated by the HP RETMARK database on 17 Dec 2020			
$COP Tj = -7^{\circ}C$	3.65	2.75	
Pdh Tj = +2°C	5.53 kW	4.86 kW	
COP Tj = +2°C	5.01	3.60	
Pdh Tj = +7°C	3.71 kW	3.61 kW	
$COP Tj = +7^{\circ}C$	6.51	5.09	
Pdh Tj = 12°C	4.44 kW	4.30 kW	
COP Tj = 12°C	9.48	7.53	
Pdh Tj = Tbiv	9.06 kW	8.30 kW	
COP Tj = Tbiv	3.65	2.75	
Pdh Tj = TOL	6.33 kW	2.07 kW	
COP Tj = TOL	2.17	0.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
РТО	19 W	19 W	
PSB	18 W	18 W	
PCK	18 W	18 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	6.00 kW	6.00 kW	
Annual energy consumption Qhe	9620 kWh	12389 kWh	



Model: AEROTOP SPLIT 09M-CR

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 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	

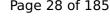
Average Climate



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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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





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Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

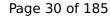
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



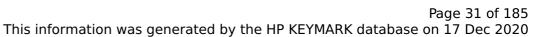


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)

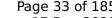
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	106 %
СОР	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	111 %
СОР	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248

Colder Climate





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EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 I



Model: ARIANEXT COMPACT 90 S-T LINK

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 m³/h

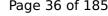
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	10.38 kW	9.38 kW	
η_{s}	189 %	133 %	
Prated	8.70 kW	7.70 kW	
SCOP	4.80	3.40	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	9.18 kW	8.30 kW	
COP Tj = -7°C	3.32	2.32	
Pdh Tj = +2°C	5.60 kW	5.31 kW	
COP Tj = +2°C	4.59	3.22	
Pdh Tj = +7°C	3.64 kW	3.47 kW	
COP Tj = +7°C	5.98	4.38	
Pdh Tj = 12°C	4.44 kW	4.22 kW	
COP Tj = 12°C	9.48	6.80	





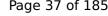
$$\operatorname{\textit{Page}}\ 36$$ of 185 This information was generated by the HP KEYMARK database on 17 Dec 2020

9.18 kW	8.30 kW
3.32	2.32
9.16 kW	9.73 kW
2.78	1.73
0.90	0.90
60 °C	60 °C
18 W	18 W
19 W	19 W
18 W	18 W
18 W	18 W
electricity	electricity
1.22 kW	0.00 kW
4468 kWh	5700 kWh
	3.32 9.16 kW 2.78 0.90 60 °C 18 W 19 W 18 W electricity 1.22 kW

Warmer Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	62 dB(A)	62 dB(A)		

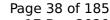
EN 14825			
	Low temperature	Medium temperature	





$$\operatorname{\textit{Page}}\xspace$ 37 of 185 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
Low temperature	Medium temperature	
14.97 kW	13.72 kW	
150 %	106 %	
6.90 kW	6.20 kW	
3.84	2.73	
-7 °C	-7 °C	
-20 °C	-20 °C	
9.06 kW	8.30 kW	
	Low temperature 14.97 kW 150 % 6.90 kW 3.84 -7 °C -20 °C	





		_
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1	1	

Domestic Hot Water (DHW)

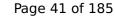
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 ℃	
Mixed water at 40°C	248	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 I	



Model: ARIANEXT FLEX 90 S-T LINK

General Data		
Power supply	3x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



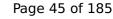


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



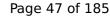


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





		_
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1	1	

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	106 %
СОР	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	111 %
СОР	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l

Model: ARIANEXT FLEX 90 S-T - 300 LINK

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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

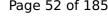
Average Climate



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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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





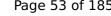
$$\operatorname{\textit{Page}}\xspace$ 52 of 185 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

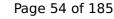
EN 1	4825	
	Low temperature	Medium temperature





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Pdesignh	6.86 kW	6.27 kW
ls	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Гbіv	2 °C	2 °C
ГОЬ	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W



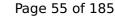


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





		_
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1	1	

Domestic Hot Water (DHW)

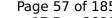
Average Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	122 %	
СОР	3.06	
Heating up time	01:52 h:min	
Standby power input	53.0 W	
Reference hot water temperature	54.5 °C	
Mixed water at 40°C	434	

Warmer Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	01:34 h:min	
Standby power input	48.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	430	

Colder Climate





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EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	97 %	
СОР	2.43	
Heating up time	02:15 h:min	
Standby power input	63.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	422 I	



Model: NIMBUS COMPACT 90 S-T NET

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

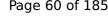
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





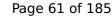
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9.18 kW	8.30 kW
3.32	2.32
9.16 kW	9.73 kW
2.78	1.73
0.90	0.90
60 °C	60 °C
18 W	18 W
19 W	19 W
18 W	18 W
18 W	18 W
electricity	electricity
1.22 kW	0.00 kW
4468 kWh	5700 kWh
	3.32 9.16 kW 2.78 0.90 60 °C 18 W 19 W 18 W electricity 1.22 kW

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





		_
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1	1	

Domestic Hot Water (DHW)

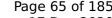
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	111 %
СОР	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	



Model: NIMBUS FLEX 90 S-T NET

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

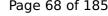
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





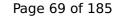
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Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



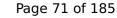


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)

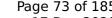
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248 I	

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	



Model: NIMBUS FLEX 90 S-T - 300 NET

General Data	
Power supply 3x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1	1	

Domestic Hot Water (DHW)

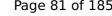
Average Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	122 %	
СОР	3.06	
Heating up time	01:52 h:min	
Standby power input	53.0 W	
Reference hot water temperature	54.5 °C	
Mixed water at 40°C	434	

Warmer Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	01:34 h:min	
Standby power input	48.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	430 I	

Colder Climate





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EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	97 %	
СОР	2.43	
Heating up time	02:15 h:min	
Standby power input	63.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	422 I	



Model: ARIANEXT COMPACT 90 S-T

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)

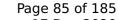
EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





	-	
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh
	*	

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	3.01	
Heating up time	00:47 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	247	



Model: ARIANEXT FLEX 90 S-T

General Data	
Power supply	3x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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



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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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



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

	-	
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh
	*	

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	127 %
СОР	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247



Model: ARIANEXT FLEX 90 S-T - 300

General Data	
Power supply	3x230V 50Hz

Heating

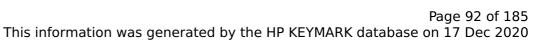
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 m³/h

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	62 dB(A)	62 dB(A)

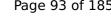
EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:52 h:min	
Standby power input	61.0 W	
Reference hot water temperature	54.4 °C	
Mixed water at 40°C	434 I	



Model: AEROTOP SPLIT 09M-RX

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



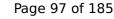


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



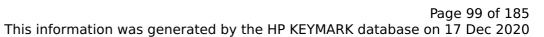


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





	ilerated by the HF KLTM	IARK database on 17 Dec 2020
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh



Model: ARIANEXT PLUS 90 S LINK

General Data	
Power supply	1x230V 50Hz

Heating

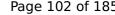
EN 14511-2			
Low temperature Medium temperature			
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





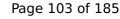
$$\operatorname{\textit{Page}}\ 102$ of $185$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



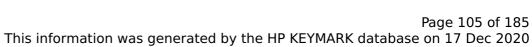


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



N. C	CEN heat pump KEYMARK
6	KEYMARK

This information was generated by the HP KEYMARK database on 17 Dec 2020			
COP Tj = -7°C	3.65	2.75	
Pdh Tj = +2°C	5.53 kW	4.86 kW	
COP Tj = +2°C	5.01	3.60	
Pdh Tj = +7°C	3.71 kW	3.61 kW	
$COPTj = +7^{\circ}C$	6.51	5.09	
Pdh Tj = 12°C	4.44 kW	4.30 kW	
COP Tj = 12°C	9.48	7.53	
Pdh Tj = Tbiv	9.06 kW	8.30 kW	
COP Tj = Tbiv	3.65	2.75	
Pdh Tj = TOL	6.33 kW	2.07 kW	
COP Tj = TOL	2.17	0.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
РТО	19 W	19 W	
PSB	18 W	18 W	
РСК	18 W	18 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	6.00 kW	6.00 kW	
Annual energy consumption Qhe	9620 kWh	12389 kWh	



Model: ARIANEXT PLUS 90 S

General Data	
Power supply 1x230V 50Hz	

Heating

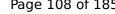
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 m³/h

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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





$$\operatorname{\textit{Page}}\xspace$ 108 of 185 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

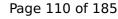
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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

COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
РСК	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1	1	



Model: NIMBUS PLUS 90 S NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

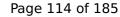
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



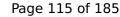


9.18 kW	8.30 kW
3.32	2.32
9.16 kW	9.73 kW
2.78	1.73
0.90	0.90
60 °C	60 °C
18 W	18 W
19 W	19 W
18 W	18 W
18 W	18 W
electricity	electricity
1.22 kW	0.00 kW
4468 kWh	5700 kWh
	3.32 9.16 kW 2.78 0.90 60 °C 18 W 19 W 18 W electricity 1.22 kW

Warmer Climate

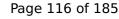
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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

COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COPTj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh



Model: AEROTOP SPLIT 09M-CRX

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 m³/h

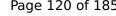
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





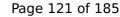
$$\operatorname{\textit{Page}}\ 120$ of $185$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

9.18 kW	8.30 kW
3.32	2.32
9.16 kW	9.73 kW
2.78	1.73
0.90	0.90
60 °C	60 °C
18 W	18 W
19 W	19 W
18 W	18 W
18 W	18 W
electricity	electricity
1.22 kW	0.00 kW
4468 kWh	5700 kWh
	3.32 9.16 kW 2.78 0.90 60 °C 18 W 19 W 18 W electricity 1.22 kW

Warmer Climate

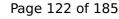
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



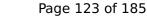


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





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COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)

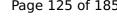
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	106 %
СОР	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	111 %
СОР	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 I

Colder Climate





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EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l



Model: ARIANEXT COMPACT 90 S LINK

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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$ 127 of 185 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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

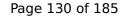
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



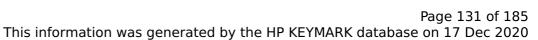


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)

Average Climate

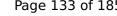
This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248	

Colder Climate





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	

Model: ARIANEXT FLEX 90 S - 300 LINK

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



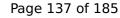


Pdh Tj = Tbiv 9.18 kW 8.30 kW COP Tj = Tbiv 3.32 2.32 Pdh Tj = TOL 9.16 kW 9.73 kW COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW Annual energy consumption Qhe 4468 kWh 5700 kWh		-	
Pdh Tj = TOL 9.16 kW 9.73 kW COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	COP Tj = Tbiv	3.32	2.32
Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Pdh Tj = TOL	9.16 kW	9.73 kW
WTOL 60 °C 60 °C 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W 18 W Supplementary Heater: Type of energy input electricity electricity 1.22 kW 0.00 kW	COP Tj = TOL	2.78	1.73
Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Cdh	0.90	0.90
PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	WTOL	60 °C	60 °C
PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Poff	18 W	18 W
PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	РТО	19 W	19 W
Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	PSB	18 W	18 W
Supplementary Heater: PSUP 1.22 kW 0.00 kW	PCK	18 W	18 W
	Supplementary Heater: Type of energy input	electricity	electricity
Annual energy consumption Qhe 4468 kWh 5700 kWh	Supplementary Heater: PSUP	1.22 kW	0.00 kW
	Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

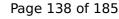
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



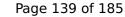


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
-		

Domestic Hot Water (DHW)



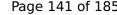
Average Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	122 %	
СОР	3.06	
Heating up time	01:52 h:min	
Standby power input	53.0 W	
Reference hot water temperature	54.5 °C	
Mixed water at 40°C	434 I	

Warmer Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	01:34 h:min	
Standby power input	48.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	430 I	

Colder Climate





$$\operatorname{\textit{Page}}\ 141\ \text{of}\ 185$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	97 %	
СОР	2.43	
Heating up time	02:15 h:min	
Standby power input	63.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	422 I	



Model: ARIANEXT FLEX 90 S LINK

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

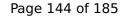
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



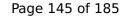


Pdh Tj = Tbiv 9.18 kW 8.30 kW COP Tj = Tbiv 3.32 2.32 Pdh Tj = TOL 9.16 kW 9.73 kW COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW Annual energy consumption Qhe 4468 kWh 5700 kWh		-	
Pdh Tj = TOL 9.16 kW 9.73 kW COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = TOL 2.78 1.73 Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	COP Tj = Tbiv	3.32	2.32
Cdh 0.90 0.90 WTOL 60 °C 60 °C Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Pdh Tj = TOL	9.16 kW	9.73 kW
WTOL 60 °C 60 °C 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W 18 W Supplementary Heater: Type of energy input electricity electricity 1.22 kW 0.00 kW	COP Tj = TOL	2.78	1.73
Poff 18 W 18 W PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Cdh	0.90	0.90
PTO 19 W 19 W PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	WTOL	60 °C	60 °C
PSB 18 W 18 W PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	Poff	18 W	18 W
PCK 18 W 18 W Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	РТО	19 W	19 W
Supplementary Heater: Type of energy input electricity electricity Supplementary Heater: PSUP 1.22 kW 0.00 kW	PSB	18 W	18 W
Supplementary Heater: PSUP 1.22 kW 0.00 kW	PCK	18 W	18 W
	Supplementary Heater: Type of energy input	electricity	electricity
Annual energy consumption Qhe 4468 kWh 5700 kWh	Supplementary Heater: PSUP	1.22 kW	0.00 kW
	Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
	Low temperature	Medium temperature	





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)



Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251	

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	111 %
СОР	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 I

Model: NIMBUS COMPACT 90 S NET

General Data	
Power supply 1x230V 50Hz	

Heating

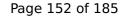
EN 14511-2			
Low temperature Medium temperature			
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

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	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



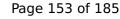


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

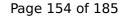
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η_{s}	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





This information was generated by the HERMARK database on 17 Dec 2020		
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COPTj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
РСК	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)



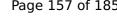
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	106 %
СОР	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	111 %
СОР	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 157 of 185 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l



Model: NIMBUS FLEX 90 S NET

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



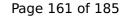


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

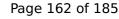
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



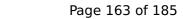


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
η_{s}	150 %	106 %
Prated	6.90 kW	6.20 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





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COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)



Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 l	

Warmer Climate

EN 16147		
Declared lead profile	XL	
Declared load profile	AL .	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 I	



Model: NIMBUS FLEX 90 S - 300 NET

General Data	
Power supply	1x230V 50Hz

Heating

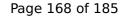
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

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		
Defrost test	passed	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80





Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Warmer Climate

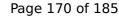
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
η _s	245 %	153 %
Prated	8.70 kW	8.30 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL	6.86 kW	6.27 kW
COP Tj = TOL	4.10	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
Low temperature	Medium temperature	
14.97 kW	13.72 kW	
150 %	106 %	
6.90 kW	6.20 kW	
3.84	2.73	
-7 °C	-7 °C	
-20 °C	-20 °C	
9.06 kW	8.30 kW	
	Low temperature 14.97 kW 150 % 6.90 kW 3.84 -7 °C -20 °C	





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL	6.33 kW	2.07 kW
COP Tj = TOL	2.17	0.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

Domestic Hot Water (DHW)

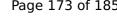
Average Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	122 %	
СОР	3.06	
Heating up time	01:52 h:min	
Standby power input	53.0 W	
Reference hot water temperature	54.5 °C	
Mixed water at 40°C	434	

Warmer Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	01:34 h:min	
Standby power input	48.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	430 I	

Colder Climate





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EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	97 %	
СОР	2.43	
Heating up time	02:15 h:min	
Standby power input	63.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	422 I	



Model: ARIANEXT COMPACT 90 S

General Data		
Power supply	1x230V 50Hz	

Heating

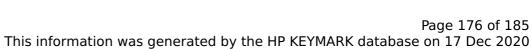
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	
Indoor water flow rate	1.49 m³/h	0.82 m³/h	

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	62 dB(A)	62 dB(A)

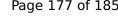
EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



	This information was generated by the first RETHAURIC database on 17 Dec 2020			
Pdh Tj = Tbiv	9.18 kW	8.30 kW		
COP Tj = Tbiv	3.32	2.32		
Pdh Tj = TOL	9.16 kW	9.73 kW		
COP Tj = TOL	2.78	1.73		
Cdh	0.90	0.90		
WTOL	60 °C	60 °C		
Poff	18 W	18 W		
РТО	19 W	19 W		
PSB	18 W	18 W		
PCK	18 W	18 W		
Supplementary Heater: Type of energy input	electricity	electricity		
Supplementary Heater: PSUP	1.22 kW	0.00 kW		
Annual energy consumption Qhe	4468 kWh	5700 kWh		

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





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EN 16147	
Declared load profile	L
Efficiency ηDHW	127 %
СОР	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247



Model: ARIANEXT FLEX 90 S

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
η_{s}	189 %	133 %
Prated	8.70 kW	7.70 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80

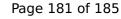


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This information was generated by the HP KEYMARK database on 17 Dec 2020

	-	
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh
	*	

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	127 %
СОР	3.01
Heating up time	00:47 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	247



Model: ARIANEXT FLEX 90 S - 300

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21
Indoor water flow rate	1.49 m³/h	0.82 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	62 dB(A)	62 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	10.38 kW	9.38 kW	
η_{s}	189 %	133 %	
Prated	8.70 kW	7.70 kW	
SCOP	4.80	3.40	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	9.18 kW	8.30 kW	
COP Tj = -7°C	3.32	2.32	
Pdh Tj = +2°C	5.60 kW	5.31 kW	
COP Tj = +2°C	4.59	3.22	
Pdh Tj = +7°C	3.64 kW	3.47 kW	
COP Tj = +7°C	5.98	4.38	
Pdh Tj = 12°C	4.44 kW	4.22 kW	
COP Tj = 12°C	9.48	6.80	



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

	-	
Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL	9.16 kW	9.73 kW
COP Tj = TOL	2.78	1.73
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh
	*	

Domestic Hot Water (DHW)





EN 16147			
Declared load profile	XL		
Efficiency ηDHW	131 %		
СОР	3.10		
Heating up time	01:52 h:min		
Standby power input	61.0 W		
Reference hot water temperature	54.4 °C		
Mixed water at 40°C	434		