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Login

Summary of	NIMBUS 110 S - ARIANEXT 110 S - AEROTOP SPLIT 11	Reg. No.	ICIM-PDC-000001		
Certificate Holder	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.				
Subtype title	NIMBUS 110 S - ARIANEXT 110 S - AEROTOP SPLIT 11				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R410A				
Mass of Refrigerant	4.3 kg				
Certification Date	19.12.2017				

Model: AEROTOP SPLIT 11M-R

Configure model		
Model name	AEROTOP SPLIT 11M-R	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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 14511-2			
	Low temperature	Medium temperature	
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

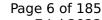
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	17.91 kW	17.01 kW	





η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COPTj = +2°C	4.91	3.76
Pdh Tj = $+7$ °C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



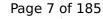


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	
12.29 kW	11.54 kW	
187 %	135 %	
12.29 kW	11.54 kW	
4.74	3.46	
-7 °C	-7 °C	
-10 °C	-10 °C	
10.87 kW	10.21 kW	
	12.29 kW 187 % 12.29 kW 4.74 -7 °C -10 °C	





		, aatababe 011 7 jai 2021
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh
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Model: ARIANEXT PLUS 110 S-T LINK

Configure model		
Model name ARIANEXT PLUS 110 S-T LINK		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	Power supply 3x230V 50Hz	

Heating

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	

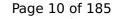
EN 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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 tempera				
Pdesignh	8.21 kW	7.46 kW		
η_{s}	250 %	161 %		
Prated	8.21 kW	7.46 kW		
SCOP	6.33	4.09		
Tbiv	2 °C	2 °C		
TOL	2 °C	2 °C		
Pdh Tj = +2°C	8.21 kW	7.46 kW		
COP Tj = +2°C	4.28	2.50		
Pdh Tj = +7°C	5.36 kW	4.90 kW		
COP Tj = +7°C	5.51	3.34		
Pdh Tj = 12°C	4.39 kW	4.14 kW		
COP Tj = 12°C	8.35	5.86		
Pdh Tj = Tbiv	8.21 kW	7.46 kW		
COP Tj = Tbiv	4.28	2.50		



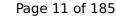


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

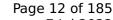
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor 62 dB(A) 62 dB(A)			

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





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η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





This information was generated by the HP KEYMARK database on 7 Jul 202.			
COP Tj = -7°C	3.21	2.32	
Pdh Tj = +2°C	6.67 kW	6.21 kW	
$COP Tj = +2^{\circ}C$	4.52	3.32	
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW	
$COP Tj = +7^{\circ}C$	6.12	4.38	
Pdh Tj = 12°C	4.42 kW	4.27 kW	
COP Tj = 12°C	9.15	6.59	
Pdh Tj = Tbiv	10.87 kW	10.21 kW	
COP Tj = Tbiv	3.21	2.32	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
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	3.08 kW	1.18 kW	
Annual energy consumption Qhe	5358 kWh	6891 kWh	
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Model: ARIANEXT PLUS 110 S-T

Configure model		
Model name	ARIANEXT PLUS 110 S-T	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

Heating

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	

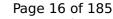
EN 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50



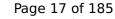


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

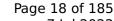
EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





This information was ger	ierated by the HP KET	MARK database on 7 Jul 202
η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



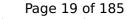


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





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COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model: NIMBUS PLUS 110 S-T NET

Configure model		
Model name NIMBUS PLUS 110 S-T NET		
Application	Heating (medium temp)	
Units Indoor + Outdoor		
Climate Zone Colder Climate + Warmer Climate		
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	8.21 kW	7.46 kW
$COP Tj = +2^{\circ}C$	4.28	2.50
Pdh Tj = $+7$ °C	5.36 kW	4.90 kW
$COP Tj = +7^{\circ}C$	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50



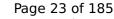


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

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			
erature	Medium temperatur	Low temperature	
	17.01 kW	17.91 kW	Pdesignh





η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

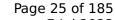


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model: AEROTOP SPLIT 11M-CR

Configure model		
Model name	AEROTOP SPLIT 11M-CR	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	1734 kWh	2436 kWh

Colder Climate

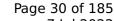
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
erature	Medium temperatur	Low temperature	
	17.01 kW	17.91 kW	Pdesignh





η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COPTj = +2°C	4.91	3.76
Pdh Tj = $+7$ °C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



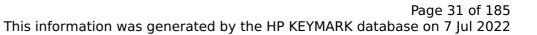


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{S}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)



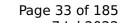
Warmer Climate

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	

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	

Model: ARIANEXT COMPACT 110 S-T LINK

Configure model		
Model name	ARIANEXT COMPACT 110 S-T LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

Heating

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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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 temper				
Pdesignh	8.21 kW	7.46 kW		
η_{s}	250 %	161 %		
Prated	8.21 kW	7.46 kW		
SCOP	6.33	4.09		
Tbiv	2 °C	2 °C		
TOL	2 °C	2 °C		
Pdh Tj = +2°C	8.21 kW	7.46 kW		
COP Tj = +2°C	4.28	2.50		
Pdh Tj = +7°C	5.36 kW	4.90 kW		
COP Tj = +7°C	5.51	3.34		
Pdh Tj = 12°C	4.39 kW	4.14 kW		
COP Tj = 12°C	8.35	5.86		
Pdh Tj = Tbiv	8.21 kW	7.46 kW		
COP Tj = Tbiv	4.28	2.50		



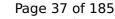


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

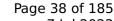
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COPTj = +2°C	4.91	3.76
Pdh Tj = $+7$ °C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{S}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





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COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

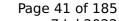


Warmer Climate

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	





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	

Model: ARIANEXT FLEX 110 S-T LINK

Configure model		
Model name	ARIANEXT FLEX 110 S-T LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

Heating

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

EN 14511-2		
Low temperature Medium temperature		
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50



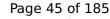


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

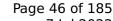
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
	1	





η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

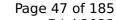




PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1			
	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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





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COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

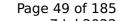


Warmer Climate

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	





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	

Model: ARIANEXT FLEX 110 S-T - 300 LINK

Configure model		
Model name	ARIANEXT FLEX 110 S-T - 300 LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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	

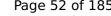
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





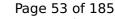
$$\operatorname{Page}\:52\:of\:185\:$ This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	1734 kWh	2436 kWh

Colder Climate

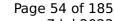
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
	1	





η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

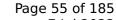




PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1		
	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	
12.29 kW	11.54 kW	
187 %	135 %	
12.29 kW	11.54 kW	
4.74	3.46	
-7 °C	-7 °C	
-10 °C	-10 °C	
10.87 kW	10.21 kW	
	12.29 kW 187 % 12.29 kW 4.74 -7 °C -10 °C	





COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

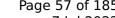


Warmer Climate

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

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





 $$\operatorname{\textit{Page}}\xspace$ 57 of 185 This information was generated by the HP KEYMARK database on 7 Jul 2022

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	

Model: NIMBUS COMPACT 110 S-T NET

Configure model		
Model name NIMBUS COMPACT 110 S-T NET		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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	

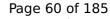
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50



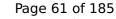


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

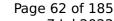
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
	1	





The same same same same same same same sam	, , , , , , , , , , , , , , , , , , ,	TARK database on 7 Jul 202.
η_s	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



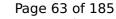


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





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COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

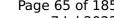


Warmer Climate

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





 $$\operatorname{\textit{Page}}\xspace$ 65 of 185 This information was generated by the HP KEYMARK database on 7 Jul 2022

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

Model: NIMBUS FLEX 110 S-T NET

Configure model	
Model name	NIMBUS FLEX 110 S-T NET
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	3x230V 50Hz	

Heating

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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	1734 kWh	2436 kWh

Colder Climate

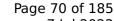
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
	1	





The same same same same same same same sam	, , , , , , , , , , , , , , , , , , ,	TARK database on 7 Jul 202.
η_s	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



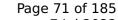


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





COP Tj = -7°C	3.21	2.32
Pdh Tj = $+2$ °C	6.67 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

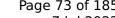


Warmer Climate

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	





 $$\operatorname{\textit{Page}}\xspace$ 73 of 185 This information was generated by the HP KEYMARK database on 7 Jul 2022

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	



Model: NIMBUS FLEX 110 S-T - 300 NET

Configure model		
Model name	NIMBUS FLEX 110 S-T - 300 NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

Heating

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operacing range outdoor exchanger/indoor exchanger lower inflictioner infliction	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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

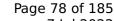
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





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COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh
	*	

Domestic Hot Water (DHW)



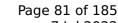
Warmer Climate

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

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

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	

Model: ARIANEXT COMPACT 110 S-T

Configure model		
Model name ARIANEXT COMPACT 110 S-T		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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	

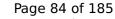
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59

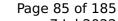




Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

Average Climate





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 I

Model: ARIANEXT FLEX 110 S-T

Configure model		
Model name	ARIANEXT FLEX 110 S-T	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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	

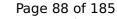
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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		
	Medium temperature	
Pdesignh	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59

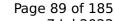




Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

Average Climate





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 I



Model: ARIANEXT FLEX 110 S-T - 300

Configure model		
Model name	ARIANEXT FLEX 110 S-T - 300	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59

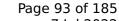




Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

Average Climate





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



Model: AEROTOP SPLIT 11M-RX

Configure model		
Model name AEROTOP SPLIT 11M-RX		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional) n/a		

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operacing range outdoor exchanger/indoor exchanger lower inflictioner infliction	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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

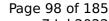
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





	crated by the fit KETI	TARK database on 7 Jul 2022
η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COPTj = -7^{\circ}C$	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





		·
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh
	•	

Model: ARIANEXT PLUS 110 S LINK

Configure model		
Model name	ARIANEXT PLUS 110 S LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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	

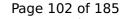
EN 14511-2		
Low temperature Medium temperature		
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50



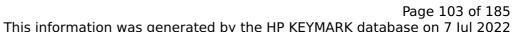


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

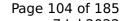
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





This information was generated by the HP KEYMARK database on 7 Ju			
η_s	149 %	112 %	
Prated	17.91 kW	17.01 kW	
SCOP	3.80	2.87	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	10.84 kW	10.30 kW	
COP Tj = -7°C	3.45	2.71	
Pdh Tj = +2°C	6.59 kW	6.21 kW	
COP Tj = +2°C	4.91	3.76	
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW	
$COP Tj = +7^{\circ}C$	6.56	5.04	
Pdh Tj = 12°C	4.42 kW	4.28 kW	
COP Tj = 12°C	9.15	7.64	
Pdh Tj = Tbiv	10.84 kW	10.30 kW	
COP Tj = Tbiv	3.45	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
PTO	19 W	19 W	





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	
12.29 kW	11.54 kW	
187 %	135 %	
12.29 kW	11.54 kW	
4.74	3.46	
-7 °C	-7 °C	
-10 °C	-10 °C	
10.87 kW	10.21 kW	
	12.29 kW 187 % 12.29 kW 4.74 -7 °C -10 °C	



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This information was generated by the HP KEYMARK database on 7 Jul 2022

This information was gene		
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model: ARIANEXT PLUS 110 S

Configure model		
Model name	ARIANEXT PLUS 110 S	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

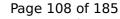
	EN 14511-2	
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

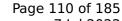
	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

	EN 14825		
erature	Medium temperat	Low temperature	
	17.01 kW	17.91 kW	designh
_			





This information was gene	erated by the Hi KETI	IANN database on 7 Jul 2022
η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{S}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW



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This information was gene	racea by the fit RETI	Third database on 7 jai 2022
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh
t		

Model: NIMBUS PLUS 110 S NET

Configure model		
Model name	NIMBUS PLUS 110 S NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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	

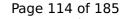
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	1734 kWh	2436 kWh

Colder Climate

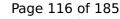
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





This information was ger	lerated by the HP KET	MARK database on 7 Jul 202
η_{S}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW



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This information was gene		TANK database on 7 Jul 2022
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Model: AEROTOP SPLIT 11M-CRX

Configure model		
Model name	AEROTOP SPLIT 11M-CRX	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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	

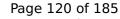
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

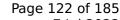
Colder Climate

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	17.91 kW	17.01 kW
	<u> </u>	<u> </u>

	CEN heat pump KEYMARK	rated by the HP KEYM	Page 121 of 185 ARK database on 7 Jul 2022	
η_s		149 %	112 %	

Inis information was generated by the HP KEYMARK database on 7 Jul 2022			
η_{s}	149 %	112 %	
Prated	17.91 kW	17.01 kW	
SCOP	3.80	2.87	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	10.84 kW	10.30 kW	
$COPTj = -7^{\circ}C$	3.45	2.71	
Pdh Tj = +2°C	6.59 kW	6.21 kW	
COP Tj = +2°C	4.91	3.76	
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW	
$COP Tj = +7^{\circ}C$	6.56	5.04	
Pdh Tj = 12°C	4.42 kW	4.28 kW	
COP Tj = 12°C	9.15	7.64	
Pdh Tj = Tbiv	10.84 kW	10.30 kW	
COP Tj = Tbiv	3.45	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
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	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





This information was gene		TANK database on 7 Jul 2022
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

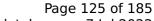


Warmer Climate

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	
Declared load profile	AL .	
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	





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	

Model: ARIANEXT COMPACT 110 S LINK

Configure model		
Model name	ARIANEXT COMPACT 110 S LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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	

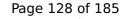
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

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)	

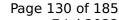
w temperature	Medium temperature
91 kW	17.01 kW
	-





				- 5 -	
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η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1		
	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		
Pdesignh	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW



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This information was generated by the HP KEYMARK database on 7 Jul 2022

This information was generated by the HF KETMARK database on 7 Jul 2022		
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

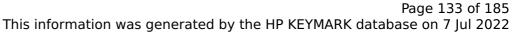


Warmer Climate

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 l



251 I



Mixed water at 40°C

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

Model: ARIANEXT FLEX 110 S LINK

Configure model		
Model name ARIANEXT FLEX 110 S LINK		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone Colder Climate + Warmer Climate		
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

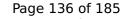
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	1734 kWh	2436 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)

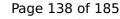
Low temperature	Medium temperature
17.91 kW	17.01 kW
	-



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	· ,	,
η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
$COP Tj = +2^{\circ}C$	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W

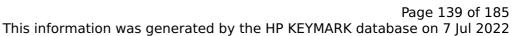




PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

EN 12102-1		
	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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

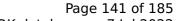


Warmer Climate

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





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

Model: ARIANEXT FLEX 110 S - 300 LINK

Configure model		
Model name	ARIANEXT FLEX 110 S - 300 LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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	

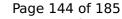
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

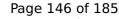
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW





η_{s}		
15	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7°C	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
	19 W	19 W



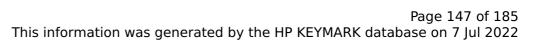


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

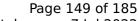


Warmer Climate

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

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





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	

Model: NIMBUS COMPACT 110 S NET

Configure model		
Model name	NIMBUS COMPACT 110 S NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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	

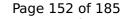
EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	8.21 kW	7.46 kW
$COP Tj = +2^{\circ}C$	4.28	2.50
Pdh Tj = $+7^{\circ}$ C	5.36 kW	4.90 kW
$COP Tj = +7^{\circ}C$	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50



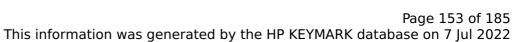


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

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)	

ature Medium temperature
17.01 kW
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η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
COP Tj = -7° C	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
$COPTj = +2^{\circ}C$	4.91	3.76
Pdh Tj = $+7^{\circ}$ C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W

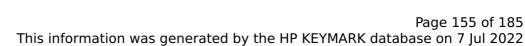




PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{S}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





$COP Tj = -7^{\circ}C$	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

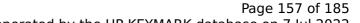


Warmer Climate

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 l	





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	

Model: NIMBUS FLEX 110 S NET

Configure model		
Model name	NIMBUS FLEX 110 S NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

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)

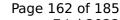
EN 14825		
	Low temperature	Medium temperature
Pdesignh	17.91 kW	17.01 kW
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This information was generated by the HP KEYMARK database on 7 Jul 2022

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η_s	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	10.84 kW	10.30 kW
$COP Tj = -7^{\circ}C$	3.45	2.71
Pdh Tj = +2°C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = $+7$ °C	4.37 kW	4.03 kW
$COP Tj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W

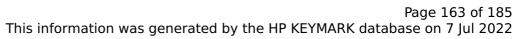




PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	
12.29 kW	11.54 kW	
187 %	135 %	
12.29 kW	11.54 kW	
4.74	3.46	
-7 °C	-7 °C	
-10 °C	-10 °C	
10.87 kW	10.21 kW	
	12.29 kW 187 % 12.29 kW 4.74 -7 °C -10 °C	





COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)



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 lead profile	XL
Declared load profile	AL .
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





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	



Model: NIMBUS FLEX 110 S - 300 NET

Configure model		
Model name	NIMBUS FLEX 110 S - 300 NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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 14511-2			
Low temperature Medium temperature			
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	8.21 kW	7.46 kW
η_{s}	250 %	161 %
Prated	8.21 kW	7.46 kW
SCOP	6.33	4.09
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.21 kW	7.46 kW
COP Tj = +2°C	4.28	2.50
Pdh Tj = +7°C	5.36 kW	4.90 kW
COP Tj = +7°C	5.51	3.34
Pdh Tj = 12°C	4.39 kW	4.14 kW
COP Tj = 12°C	8.35	5.86
Pdh Tj = Tbiv	8.21 kW	7.46 kW
COP Tj = Tbiv	4.28	2.50
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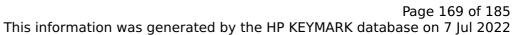


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.21 kW	7.46 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1734 kWh	2436 kWh

Colder Climate

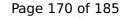
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

Medium temperature
17.01 kW
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η_{s}	149 %	112 %
Prated	17.91 kW	17.01 kW
SCOP	3.80	2.87
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	10.84 kW	10.30 kW
$COPTj = -7^{\circ}C$	3.45	2.71
Pdh Tj = $+2$ °C	6.59 kW	6.21 kW
COP Tj = +2°C	4.91	3.76
Pdh Tj = +7°C	4.37 kW	4.03 kW
$COPTj = +7^{\circ}C$	6.56	5.04
Pdh Tj = 12°C	4.42 kW	4.28 kW
COP Tj = 12°C	9.15	7.64
Pdh Tj = Tbiv	10.84 kW	10.30 kW
COP Tj = Tbiv	3.45	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.78 kW	4.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	0.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



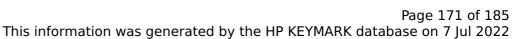


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	11631 kWh	14593 kWh

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW





$COP Tj = -7^{\circ}C$	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = $+7^{\circ}$ C	4.33 kW	3.99 kW
$COP Tj = +7^{\circ}C$	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59
Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)

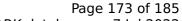


Warmer Climate

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

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





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



Model: ARIANEXT COMPACT 110 S

Configure model		
Model name	ARIANEXT COMPACT 110 S	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

Heating

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

EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

Average Climate



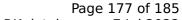
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59



Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 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 110 S

Configure model		
Model name ARIANEXT FLEX 110 S		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

Heating

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

EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	10.60 kW	9.55 kW	
El input	2.06 kW	3.02 kW	
СОР	5.15	3.17	

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59

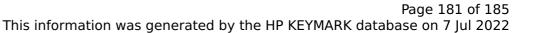


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Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 kWh

Domestic Hot Water (DHW)





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

Model: ARIANEXT FLEX 110 S - 300

Configure model		
Model name	ARIANEXT FLEX 110 S - 300	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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 14511-2		
	Low temperature	Medium temperature
Heat output	10.60 kW	9.55 kW
El input	2.06 kW	3.02 kW
СОР	5.15	3.17

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	12.29 kW	11.54 kW
η_{s}	187 %	135 %
Prated	12.29 kW	11.54 kW
SCOP	4.74	3.46
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.87 kW	10.21 kW
COP Tj = -7°C	3.21	2.32
Pdh Tj = +2°C	6.67 kW	6.21 kW
COP Tj = +2°C	4.52	3.32
Pdh Tj = +7°C	4.33 kW	3.99 kW
COP Tj = +7°C	6.12	4.38
Pdh Tj = 12°C	4.42 kW	4.27 kW
COP Tj = 12°C	9.15	6.59

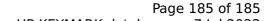


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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	10.87 kW	10.21 kW
COP Tj = Tbiv	3.21	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.08 kW	10.36 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.82
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
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	3.08 kW	1.18 kW
Annual energy consumption Qhe	5358 kWh	6891 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	