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



# **Model: AEROTOP SPLIT 05M-RX**

General Data		
Power supply	1x230V 50Hz	

## Heating

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

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

## **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33





Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Warmer Climate

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

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
n <sub>s</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W





PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

## Colder Climate

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

EN 14825							
Low temperature Medium							
Pdesignh	7.98 kW	8.55 kW					
$\eta_{S}$	149 %	118 %					
Prated	4.20 kW	3.90 kW					
SCOP	3.81	3.02					
Tbiv	-7 °C	-7 °C					
TOL	-20 °C	-20 °C					
Pdh Tj = -7°C	4.83 kW	5.17 kW					





This information was ge	Tieratea by the Till RETIN	ANN database on 17 Dec 2020
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
$COP Tj = +7^{\circ}C$	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh



# **Model: ARIANEXT PLUS 50 S LINK**

General Data			
Power supply	1x230V 50Hz		

## Heating

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

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

## **Average Climate**



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

EN 14825					
	Low temperature	Medium temperature 6.05 kW			
Pdesignh	5.79 kW				
$\eta_{s}$	189 %	138 %			
Prated	4.40 kW	3.80 kW			
SCOP	4.79	3.52			
Tbiv	-7 °C	-7 °C			
TOL	-10 °C	-10 °C			
Pdh Tj = -7°C	5.12 kW	5.35 kW			
COP Tj = -7°C	3.19	2.32			
Pdh Tj = +2°C	3.18 kW	3.55 kW			
COP Tj = +2°C	4.63	3.43			
Pdh Tj = +7°C	2.03 kW	2.14 kW			
COP Tj = +7°C	6.09	4.50			
Pdh Tj = 12°C	1.61 kW	1.58 kW			
COP Tj = 12°C	8.52	6.33			





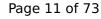
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Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Warmer Climate

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

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
N <sub>S</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
$COP Tj = +7^{\circ}C$	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W





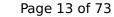
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PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

## Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
$\eta_{S}$	149 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW





This information was generated by the HP KETMARK database on 17 Dec 2020			
COP Tj = -7°C	3.46	2.76	
Pdh Tj = +2°C	2.92 kW	3.27 kW	
COP Tj = +2°C	5.02	3.82	
Pdh Tj = +7°C	1.94 kW	2.01 kW	
COP Tj = +7°C	6.89	4.93	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	8.52	6.87	
Pdh Tj = Tbiv	4.83 kW	5.17 kW	
COP Tj = Tbiv	3.46	2.76	
Pdh Tj = TOL	3.70 kW	3.18 kW	
COP Tj = TOL	2.30	1.54	
Cdh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	11 W	11 W	
РТО	11 W	11 W	
PSB	11 W	11 W	
PCK	11 W	11 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	3.86 kW	4.00 kW	
Annual energy consumption Qhe	5160 kWh	6984 kWh	



# **Model: ARIANEXT PLUS 50 S**

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33





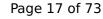
# $$\operatorname{\textit{Page}}\ 16$$ of 73 This information was generated by the HP KEYMARK database on 17 Dec 2020

5.12 kW	5.35 kW
3.19	2.32
5.12 kW	4.78 kW
2.84	2.04
0.90	0.90
60 °C	60 °C
11 W	11 W
electricity	electricity
0.55 kW	1.27 kW
2497 kWh	3545 kWh
	3.19 5.12 kW 2.84 0.90 60 °C 11 W 11 W 11 W 11 W 0.55 kW

## Warmer Climate

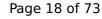
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
n <sub>s</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W



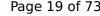


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

## Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
$\eta_{S}$	149 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW





# $$\operatorname{\textit{Page}}\ 19$ of 73$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

Time information was get		
COP Tj = -7°C	3.46	2.76
Pdh Tj = $+2$ °C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = $+7^{\circ}$ C	1.94 kW	2.01 kW
$COP Tj = +7^{\circ}C$	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh
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# **Model: NIMBUS PLUS 50 S NET**

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33





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Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Warmer Climate

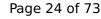
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
N <sub>S</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
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Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W





PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

## Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
$\eta_{s}$	149 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW





This information was ge	Tieratea by the Till RETIN	ANN database on 17 Dec 2020
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
$COP Tj = +7^{\circ}C$	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh



# **Model: AEROTOP SPLIT 05M-CRX**

General Data	
Power supply 1x230V 50Hz	

## Heating

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

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

## **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33





Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
n <sub>s</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W



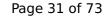


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

## Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
$\eta_{s}$	149 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW





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COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
COP Tj = +7°C	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh
	i .	

## Domestic Hot Water (DHW)

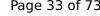
## Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241

## Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	242

#### Colder Climate





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



# **Model: ARIANEXT COMPACT 50 S LINK**

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## **Average Climate**



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

	EN 14825	
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33



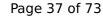


Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Warmer Climate

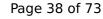
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
N <sub>S</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
$COP Tj = +7^{\circ}C$	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W



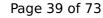


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

#### Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
$\eta_{S}$	149 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW





Time information was get		
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = $+7^{\circ}$ C	1.94 kW	2.01 kW
$COP Tj = +7^{\circ}C$	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh
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#### Domestic Hot Water (DHW)



#### Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	242 I	

#### Colder Climate





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



# **Model: ARIANEXT FLEX 50 S LINK**

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33





	,	, in it database on 17 Dec 2020
Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

#### Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
n <sub>s</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W





PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

#### Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
$\eta_{s}$	149 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW





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COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = $+7^{\circ}$ C	1.94 kW	2.01 kW
$COP Tj = +7^{\circ}C$	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

#### Domestic Hot Water (DHW)



#### Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	241

#### Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	242 I

#### Colder Climate





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



# **Model: NIMBUS COMPACT 50 S NET**

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33



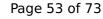


Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

#### Warmer Climate

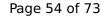
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 1	4825	
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
n <sub>s</sub>	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Гbіv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W



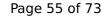


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

#### Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW
$\eta_{s}$	149 %	118 %
Prated	4.20 kW	3.90 kW
SCOP	3.81	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.83 kW	5.17 kW





COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = +7°C	1.94 kW	2.01 kW
$COP Tj = +7^{\circ}C$	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh
1	·	

#### Domestic Hot Water (DHW)

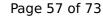
#### Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	241	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	242 I	

#### Colder Climate





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



# **Model: NIMBUS FLEX 50 S NET**

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

## **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33





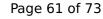
# $$\operatorname{\textit{Page}}\xspace$ 60 of 73 This information was generated by the HP KEYMARK database on 17 Dec 2020

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

#### Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature





Pdesignh	3.48 kW	2.99 kW
$\eta_{s}$	243 %	154 %
Prated	4.50 kW	3.80 kW
SCOP	6.16	3.93
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.48 kW	2.99 kW
COP Tj = +2°C	4.08	2.45
Pdh Tj = +7°C	2.24 kW	1.96 kW
COP Tj = +7°C	5.65	3.21
Pdh Tj = 12°C	1.59 kW	1.58 kW
COP Tj = 12°C	7.80	5.69
Pdh Tj = Tbiv	3.48 kW	2.99 kW
COP Tj = Tbiv	4.08	2.45
Pdh Tj = TOL	3.48 kW	2.99 kW
COP Tj = TOL	4.08	2.45
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W



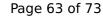


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

#### Colder Climate

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

EN 14825		
temperature	Medium temperature	
kW	8.55 kW	
%	118 %	
kW	3.90 kW	
	3.02	
	-7 °C	
°C	-20 °C	
kW	5.17 kW	
	kW	





Time information was get		
COP Tj = -7°C	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COP Tj = +2°C	5.02	3.82
Pdh Tj = $+7^{\circ}$ C	1.94 kW	2.01 kW
$COP Tj = +7^{\circ}C$	6.89	4.93
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	8.52	6.87
Pdh Tj = Tbiv	4.83 kW	5.17 kW
COP Tj = Tbiv	3.46	2.76
Pdh Tj = TOL	3.70 kW	3.18 kW
COP Tj = TOL	2.30	1.54
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh
1		

#### Domestic Hot Water (DHW)



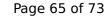
#### Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	241	

#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	242 I	

#### Colder Climate





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



# **Model: ARIANEXT COMPACT 50 S**

General Data		
Power supply	1x230V 50Hz	

## Heating

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

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

#### **Average Climate**



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

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33

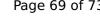




Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Domestic Hot Water (DHW)

### **Average Climate**





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 l	



# **Model: ARIANEXT FLEX 50 S**

General Data	
Power supply	1x230V 50Hz

## Heating

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

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

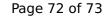
## **Average Climate**



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

CEN heat pump KEYMARK

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.79 kW	6.05 kW
$\eta_{s}$	189 %	138 %
Prated	4.40 kW	3.80 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.12 kW	5.35 kW
COP Tj = -7°C	3.19	2.32
Pdh Tj = +2°C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = +7°C	2.03 kW	2.14 kW
COP Tj = +7°C	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
COP Tj = 12°C	8.52	6.33

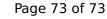




Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL	5.12 kW	4.78 kW
COP Tj = TOL	2.84	2.04
Cdh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

# Domestic Hot Water (DHW)

### **Average Climate**





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 l	