

# $$\operatorname{\textit{Page}}\ 1$$ of 73 This information was generated by the HP KEYMARK database on 7 Jul 2022

#### <u>Login</u>

Summary of	NIMBUS 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X	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 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**

Configure model			
Model name	AEROTOP SPLIT 05M-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	
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	4.40 kW	3.80 kW		
El input	0.88 kW	1.32 kW		
СОР	5.02	2.88		

#### 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	3.48 kW	2.99 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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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			
erature	Medium temperatu	Low temperature	
	8.55 kW	7.98 kW	Pdesignh





# $$\operatorname{\textit{Page}}\xspace\:5\:\:\text{of}\:73\:$ This information was generated by the HP KEYMARK database on 7 Jul 2022

$\eta_{s}$	149 %	118 %
Prated	7.98 kW	8.55 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 = $+7^{\circ}$ C	1.94 kW	2.01 kW
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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

# 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	5.79 kW	6.05 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





	<b>,</b>	" " " Tar adtabase on 7 Jan 2021
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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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
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# **Model: ARIANEXT PLUS 50 S LINK**

Configure model		
Model name	ARIANEXT PLUS 50 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	

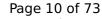
EN 14511-2		
Low temperature Medium temperature		
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

#### 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	3.48 kW	2.99 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



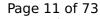


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy 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





This information was generated by the HP KEYMARK database on 7 Jul 202			
$\eta_{s}$	149 %	118 %	
Prated	7.98 kW	8.55 kW	
SCOP	3.81	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = $-7^{\circ}$ C	4.83 kW	5.17 kW	
COP Tj = -7°C	3.46	2.76	
Pdh Tj = +2°C	2.92 kW	3.27 kW	
COP Tj = +2°C	5.02	3.82	
Pdh Tj = +7°C	1.94 kW	2.01 kW	
COP Tj = +7°C	6.89	4.93	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	8.52	6.87	
Pdh Tj = Tbiv	4.83 kW	5.17 kW	
COP Tj = Tbiv	3.46	2.76	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	11 W	11 W	
РТО	11 W	11 W	



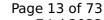


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PSB	11 W	11 W	
PCK	11 W	11 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	3.86 kW	4.00 kW	
Annual energy consumption Qhe	5160 kWh	6984 kWh	

# 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		
5.79 kW	6.05 kW		
189 %	138 %		
5.79 kW	6.05 kW		
4.79	3.52		
-7 °C	-7 °C		
-10 °C	-10 °C		
5.12 kW	5.35 kW		
	Low temperature  5.79 kW  189 %  5.79 kW  4.79  -7 °C  -10 °C		





ins mornation was gene		
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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
РСК	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
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# **Model: ARIANEXT PLUS 50 S**

Configure model			
Model name	ARIANEXT PLUS 50 S		
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	Colder Climate + Warmer Climate		
Reversibility	No		
Cooling mode application (optional)	n/a		

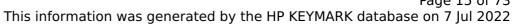
General Data		
Power supply	1x230V 50Hz	

### 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	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

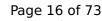
#### Warmer Climate





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	3.48 kW	2.99 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





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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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

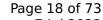
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825			
erature	Medium temperatu	Low temperature	
	8.55 kW	7.98 kW	Pdesignh





This information was ger	erated by the Hi KETI	TARK database on 7 Jul 2022
$\eta_{s}$	149 %	118 %
Prated	7.98 kW	8.55 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
$COPTj = +2^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W



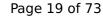


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

# 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	5.79 kW	6.05 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





		AIR database on 7 jul 202.
COP Tj = -7°C	3.19	2.32
Pdh Tj = $+2^{\circ}$ C	3.18 kW	3.55 kW
COP Tj = +2°C	4.63	3.43
Pdh Tj = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	6.09	4.50
Pdh Tj = 12°C	1.61 kW	1.58 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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
PSB PCK Supplementary Heater: Type of energy input Supplementary Heater: PSUP	11 W 11 W Electricity 0.55 kW	11 W 11 W Electricity 1.27 kW



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

Configure model		
Model name	NIMBUS PLUS 50 S NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

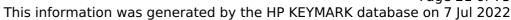
General Data		
Power supply	1x230V 50Hz	

### 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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

#### 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	3.48 kW	2.99 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



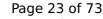


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy 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	7.98 kW	8.55 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
$COP Tj = -7^{\circ}C$	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COPTj = +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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W

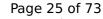


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

### 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	5.79 kW	6.05 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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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

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

Configure model		
Model name	AEROTOP SPLIT 05M-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	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

#### 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	3.48 kW	2.99 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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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

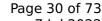
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.98 kW	8.55 kW





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$\eta_{s}$	149 %	118 %
Prated	7.98 kW	8.55 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 = $+2^{\circ}$ 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 or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
РТО	11 W	11 W



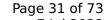


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

# 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	
5.79 kW	6.05 kW	
189 %	138 %	
5.79 kW	6.05 kW	
4.79	3.52	
-7 °C	-7 °C	
-10 °C	-10 °C	
5.12 kW	5.35 kW	
	Low temperature  5.79 kW  189 %  5.79 kW  4.79  -7 °C  -10 °C	





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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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)



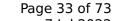
#### Warmer Climate

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

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	

### **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



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

Configure model		
Model name	ARIANEXT COMPACT 50 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	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

#### 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	3.48 kW	2.99 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



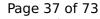


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

#### Colder Climate

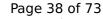
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825				
Low temperature Medium temperat				
Pdesignh	7.98 kW	8.55 kW		





Inis information was generated by the HP KEYMARK database on 7 Jul 2022			
$\eta_{s}$	149 %	118 %	
Prated	7.98 kW	8.55 kW	
SCOP	3.81	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = $-7^{\circ}$ C	4.83 kW	5.17 kW	
COP Tj = -7°C	3.46	2.76	
Pdh Tj = +2°C	2.92 kW	3.27 kW	
COP Tj = +2°C	5.02	3.82	
Pdh Tj = +7°C	1.94 kW	2.01 kW	
COP Tj = +7°C	6.89	4.93	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	8.52	6.87	
Pdh Tj = Tbiv	4.83 kW	5.17 kW	
COP Tj = Tbiv	3.46	2.76	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	11 W	11 W	
РТО	11 W	11 W	



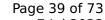


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This information was generated by the H	IP KEYMARK database on 7 Jul 2022

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

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	5.79 kW	6.05 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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Domestic Hot Water (DHW)

242 I

### Warmer Climate

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

### Colder Climate

Mixed water at 40°C

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



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



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

Configure model		
Model name	ARIANEXT FLEX 50 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	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

### 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	3.48 kW	2.99 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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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			
erature	Medium temperatu	Low temperature	
	8.55 kW	7.98 kW	Pdesignh





$\eta_{s}$	149 %	118 %
Prated	7.98 kW	8.55 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
$COP Tj = -7^{\circ}C$	3.46	2.76
Pdh Tj = +2°C	2.92 kW	3.27 kW
COPTj = +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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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

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	5.79 kW	6.05 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





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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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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
1	•	

## Domestic Hot Water (DHW)

Warmer Climate

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

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

EN 16147	
Declared load profile	XL
Deciared 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



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



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

Configure model		
Model name NIMBUS COMPACT 50 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

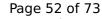
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

### 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		
Pdesignh	3.48 kW	2.99 kW
$\eta_{s}$	243 %	154 %
Prated	3.48 kW	2.99 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



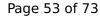


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy 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		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





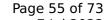
149 %	118 %
7.98 kW	8.55 kW
3.81	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.83 kW	5.17 kW
3.46	2.76
2.92 kW	3.27 kW
5.02	3.82
1.94 kW	2.01 kW
6.89	4.93
1.61 kW	1.60 kW
8.52	6.87
4.83 kW	5.17 kW
3.46	2.76
3.70 kW	3.18 kW
2.30	1.54
0.90	0.90
60 °C	60 °C
11 W	11 W
11 W	11 W
	-7 °C  -20 °C  4.83 kW  3.46  2.92 kW  5.02  1.94 kW  6.89  1.61 kW  8.52  4.83 kW  3.46  3.70 kW  2.30  0.90  60 °C  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

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	5.79 kW	6.05 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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	1.27 kW
Annual energy consumption Qhe	2497 kWh	3545 kWh

## Domestic Hot Water (DHW)



### 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

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	



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	



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

Configure model		
Model name	NIMBUS FLEX 50 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		
Shutting off the heat transfer medium flow		
Complete power supply failure		
Defrost test	passed	

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

### 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	3.48 kW	2.99 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 = $+7^{\circ}$ 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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.48 kW	2.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.08	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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





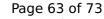
Inis information was generated by the HP KEYMARK database on 7 Jul 2022			
$\eta_{s}$	149 %	118 %	
Prated	7.98 kW	8.55 kW	
SCOP	3.81	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.83 kW	5.17 kW	
$COPTj = -7^{\circ}C$	3.46	2.76	
Pdh Tj = +2°C	2.92 kW	3.27 kW	
COP Tj = +2°C	5.02	3.82	
Pdh Tj = $+7^{\circ}$ C	1.94 kW	2.01 kW	
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	3.70 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	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

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	5.79 kW	6.05 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





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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 = $+7^{\circ}$ C	2.03 kW	2.14 kW
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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
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## Domestic Hot Water (DHW)



### 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

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



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



# **Model: ARIANEXT COMPACT 50 S**

Configure model		
Model name	ARIANEXT COMPACT 50 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	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	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

## **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	5.79 kW	6.05 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 or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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)



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



# **Model: ARIANEXT FLEX 50 S**

Configure model		
Model name	ARIANEXT FLEX 50 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		
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

## **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	5.79 kW	6.05 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 = Tbiv5.12 kW 5.35 kW 3.19 2.32 COP Tj = TbivPdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.12 kW 4.78 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.84 2.04 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 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

2497 kWh

3545 kWh

## Domestic Hot Water (DHW)

Annual energy consumption Qhe



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		