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Summary of	NIMBUS 50 S - ARIANEXT 50 S - AEROTOP SPLIT 05X	Reg. No.	ICIM-PDC-000001
Certificate Holder		<u>'</u>	
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 14511-2			
	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	

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	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

# 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





	-	The first ductabase on 10 Flair 25
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
$COP Tj = +2^{\circ}C$	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 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
$\eta_{s}$	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





This internation was general		
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 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



# **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

COP

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

2.88

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**

5.02



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



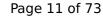


Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

# Warmer Climate

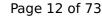
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 36 dB(A) 36 dB(A) Sound power level outdoor 58 dB(A) 58 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





<u> </u>	•	YMARK database on 18 Mar
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





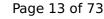
This information	n was generated by	v the HP KEYMARK	database on 18 Mar 2022

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





	<u> </u>	
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 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



# **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

COP

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

2.88

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**

5.02



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



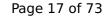


Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

## Warmer Climate

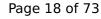
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

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
$COP Tj = +7^{\circ}C$	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 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



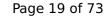


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

#### 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





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COP Tj = -7°C	3.46	2.76
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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	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh
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# **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

COP

5.02

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

2.88

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	5.79 kW	6.05 kW
SCOP	4.79	3.52
Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	5.12 kW	5.35 kW
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COP Tj = Tbiv	3.19	2.32
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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
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

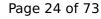
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





This information was gener	ated by the fill RE	YMARK database on 18 Mar
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
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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



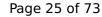


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

## 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





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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
$COPTj = +7^{\circ}C$	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
РСК	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: 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 14511-2			
	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	

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	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

# 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





<u> </u>	•	YMARK database on 18 Mar
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



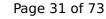


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

#### 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
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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
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	3.86 kW	4.00 kW
Annual energy consumption Qhe	5160 kWh	6984 kWh

# Domestic Hot Water (DHW)

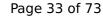
# Average Climate

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





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**

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	

EN 14511-2

# Heating

Low temperature	Medium temperature
4.40 kW	3.80 kW

Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

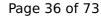
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **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	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



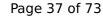


Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

# 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





<u> </u>	•	YMARK database on 18 Mar
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

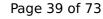




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

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°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
РСК	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)

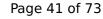


## Average Climate

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





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**

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 14511-2		
	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

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	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

### 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





<u> </u>	•	YMARK database on 18 Mar
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

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°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 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
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	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	





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**

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

ΕN	14511-2	

	I	
	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

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	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
$COP Tj = +2^{\circ}C$	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



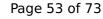


Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

## Warmer Climate

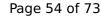
	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 1482	25	
	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
$COP Tj = +7^{\circ}C$	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 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

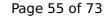




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

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 temperat	ure 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°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
РСК	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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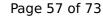
## Domestic Hot Water (DHW)

## 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	





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 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 14511-2			
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	

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	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°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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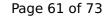


Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

### Warmer Climate

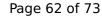
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature





<u> </u>	•	YMARK database on 18 Mar
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

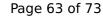




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	754 kWh	1018 kWh

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°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
РСК	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	





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**

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 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
COP	5.02	2 88

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

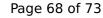
### **Average Climate**





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	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)

## 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	



# **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 14511-2		
	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

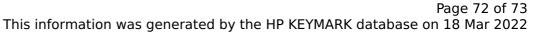
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

### **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	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		

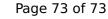




Pdh Tj = Tbiv	5.12 kW	5.35 kW
COP Tj = Tbiv	3.19	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.12 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.84	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	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)

## 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		