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Summary of	NIMBUS 40 S - ARIANEXT 40 S - AEROTOP SPLIT 04X	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 40 S - ARIANEXT 40 S - AEROTOP SPLIT 04X				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R410A				
Mass of Refrigerant	2.3 kg				
Certification Date	19.12.2017				



# **Model: AEROTOP SPLIT 04-RX**

Configure model			
Model name	AEROTOP SPLIT 04-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	3.50 kW	2.96 kW		
El input	0.69 kW	1.05 kW		
СОР	5.11	2.82		

#### Warmer Climate





EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	2.80 kW	2.33 kW	
$\eta_{s}$	231 %	144 %	
Prated	2.80 kW	2.33 kW	
SCOP	5.86	3.67	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	2.80 kW	2.33 kW	
COP Tj = +2°C	4.12	2.30	
Pdh Tj = +7°C	1.77 kW	1.56 kW	
COP Tj = +7°C	5.53	2.99	
Pdh Tj = 12°C	1.61 kW	1.61 kW	
COP Tj = 12°C	7.73	5.65	
Pdh Tj = Tbiv	2.80 kW	2.33 kW	
COP Tj = Tbiv	4.12	2.30	





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

### Colder Climate

EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	36 dB(A)	36 dB(A)		
Sound power level outdoor	56 dB(A)	56 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	7.65 kW	7.35 kW	
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$\eta_{s}$	148 %	117 %
Prated	7.65 kW	7.35 kW
SCOP	3.77	2.99
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.63 kW	4.45 kW
COP Tj = -7°C	3.59	2.79
Pdh Tj = +2°C	2.85 kW	2.82 kW
COP Tj = +2°C	4.97	3.71
Pdh Tj = +7°C	1.76 kW	1.73 kW
$COP Tj = +7^{\circ}C$	6.63	5.30
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	8.44	6.71
Pdh Tj = Tbiv	4.63 kW	4.45 kW
COP Tj = Tbiv	3.59	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52
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
		1



PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
Low temperature	Medium temperature	
5.20 kW	4.78 kW	
191 %	135 %	
5.20 kW	4.78 kW	
4.85	3.45	
-7 °C	-7 °C	
-10 °C	-10 °C	
4.60 kW	4.23 kW	
	Low temperature  5.20 kW  191 %  5.20 kW  4.85  -7 °C  -10 °C	





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COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
COP Tj = +2°C	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COP Tj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh



# **Model: ARIANEXT PLUS 40 S LINK**

Configure model		
Model name	ARIANEXT PLUS 40 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	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	

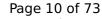
EN 14511-2		
Low temperature Medium temperature		
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82

#### Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.33 kW
$\eta_{s}$	231 %	144 %
Prated	2.80 kW	2.33 kW
SCOP	5.86	3.67
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.33 kW
COP Tj = +2°C	4.12	2.30
Pdh Tj = +7°C	1.77 kW	1.56 kW
COP Tj = +7°C	5.53	2.99
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.73	5.65
Pdh Tj = Tbiv	2.80 kW	2.33 kW
COP Tj = Tbiv	4.12	2.30



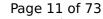


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	640 kWh	848 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.65 kW	7.35 kW
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$\eta_{s}$	148 %	117 %	
Prated	7.65 kW	7.35 kW	
SCOP	3.77	2.99	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = $-7^{\circ}$ C	4.63 kW	4.45 kW	
$COPTj = -7^{\circ}C$	3.59	2.79	
Pdh Tj = +2°C	2.85 kW	2.82 kW	
COP Tj = +2°C	4.97	3.71	
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW	
$COPTj = +7^{\circ}C$	6.63	5.30	
Pdh Tj = 12°C	1.62 kW	1.61 kW	
COP Tj = 12°C	8.44	6.71	
Pdh Tj = Tbiv	4.63 kW	4.45 kW	
COP Tj = Tbiv	3.59	2.79	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52	
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	



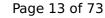


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PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

### Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW





COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
COP Tj = +2°C	4.69	3.37
Pdh Tj = +7°C	1.84 kW	1.72 kW
$COPTj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh

# **Model: ARIANEXT PLUS 40 S**

Configure model		
Model name	ARIANEXT PLUS 40 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	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82

#### Warmer Climate





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.33 kW
$\eta_{s}$	231 %	144 %
Prated	2.80 kW	2.33 kW
SCOP	5.86	3.67
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.33 kW
COP Tj = +2°C	4.12	2.30
Pdh Tj = +7°C	1.77 kW	1.56 kW
COP Tj = +7°C	5.53	2.99
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.73	5.65
Pdh Tj = Tbiv	2.80 kW	2.33 kW
COP Tj = Tbiv	4.12	2.30





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

### Colder Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.65 kW	7.35 kW





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$\eta_{s}$	148 %	117 %
Prated	7.65 kW	7.35 kW
SCOP	3.77	2.99
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = $-7^{\circ}$ C	4.63 kW	4.45 kW
$COPTj = -7^{\circ}C$	3.59	2.79
Pdh Tj = +2°C	2.85 kW	2.82 kW
COP Tj = +2°C	4.97	3.71
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW
$COPTj = +7^{\circ}C$	6.63	5.30
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	8.44	6.71
Pdh Tj = Tbiv	4.63 kW	4.45 kW
COP Tj = Tbiv	3.59	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52
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



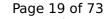


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

### Average Climate

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW





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$COP Tj = -7^{\circ}C$	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
COP Tj = +2°C	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COPTj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh

# **Model: NIMBUS PLUS 40 S NET**

Configure model		
Model name   NIMBUS PLUS 40 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	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	

#### Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.33 kW
$\eta_{s}$	231 %	144 %
Prated	2.80 kW	2.33 kW
SCOP	5.86	3.67
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.33 kW
COP Tj = +2°C	4.12	2.30
Pdh Tj = +7°C	1.77 kW	1.56 kW
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Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.73	5.65
Pdh Tj = Tbiv	2.80 kW	2.33 kW
COP Tj = Tbiv	4.12	2.30





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.65 kW	7.35 kW
	<u> </u>	





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$\eta_{s}$	148 %	117 %
Prated	7.65 kW	7.35 kW
SCOP	3.77	2.99
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = $-7^{\circ}$ C	4.63 kW	4.45 kW
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COP Tj = +2°C	4.97	3.71
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW
$COPTj = +7^{\circ}C$	6.63	5.30
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	8.44	6.71
Pdh Tj = Tbiv	4.63 kW	4.45 kW
COP Tj = Tbiv	3.59	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52
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

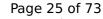


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

### Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW





COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
$COP Tj = +2^{\circ}C$	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COP Tj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh



# **Model: AEROTOP SPLIT 04M-CRX**

Configure model		
Model name	AEROTOP SPLIT 04M-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	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	

#### Warmer Climate





EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	2.80 kW	2.33 kW	
$\eta_{s}$	231 %	144 %	
Prated	2.80 kW	2.33 kW	
SCOP	5.86	3.67	
Tbiv	2 °C	2 °C	
TOL	2 °C	2 °C	
Pdh Tj = +2°C	2.80 kW	2.33 kW	
COP Tj = +2°C	4.12	2.30	
Pdh Tj = +7°C	1.77 kW	1.56 kW	
COP Tj = +7°C	5.53	2.99	
Pdh Tj = 12°C	1.61 kW	1.61 kW	
COP Tj = 12°C	7.73	5.65	
Pdh Tj = Tbiv	2.80 kW	2.33 kW	
COP Tj = Tbiv	4.12	2.30	





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

### Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

ature Medium temperature
ature Medium temperature
7.35 kW
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This information was generated by the HP KEYMARK database on 7 Jul 202				
$\eta_{s}$	148 %	117 %		
Prated	7.65 kW	7.35 kW		
SCOP	3.77	2.99		
Tbiv	-7 °C	-7 °C		
TOL	-20 °C	-20 °C		
Pdh Tj = $-7^{\circ}$ C	4.63 kW	4.45 kW		
$COPTj = -7^{\circ}C$	3.59	2.79		
Pdh Tj = +2°C	2.85 kW	2.82 kW		
COP Tj = +2°C	4.97	3.71		
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW		
$COPTj = +7^{\circ}C$	6.63	5.30		
Pdh Tj = 12°C	1.62 kW	1.61 kW		
COP Tj = 12°C	8.44	6.71		
Pdh Tj = Tbiv	4.63 kW	4.45 kW		
COP Tj = Tbiv	3.59	2.79		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52		
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		





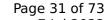
This information	was generated by	the HP	<b>KEYMARK</b>	database on 7	Jul 2022

PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

### Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.20 kW	4.78 kW	
$\eta_{s}$	191 %	135 %	
Prated	5.20 kW	4.78 kW	
SCOP	4.85	3.45	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	4.60 kW	4.23 kW	





COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
$COP Tj = +2^{\circ}C$	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COP Tj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh
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### Domestic Hot Water (DHW)



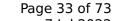
#### Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	240	

#### 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	242 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 40 S LINK**

Configure model		
Model name ARIANEXT COMPACT 40 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	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	

#### Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.33 kW
$\eta_{s}$	231 %	144 %
Prated	2.80 kW	2.33 kW
SCOP	5.86	3.67
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.33 kW
COP Tj = +2°C	4.12	2.30
Pdh Tj = +7°C	1.77 kW	1.56 kW
COP Tj = +7°C	5.53	2.99
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.73	5.65
Pdh Tj = Tbiv	2.80 kW	2.33 kW
COP Tj = Tbiv	4.12	2.30





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.65 kW	7.35 kW





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$\eta_{s}$	148 %	117 %
Prated	7.65 kW	7.35 kW
SCOP	3.77	2.99
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.63 kW	4.45 kW
COP Tj = -7°C	3.59	2.79
Pdh Tj = +2°C	2.85 kW	2.82 kW
COP Tj = +2°C	4.97	3.71
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW
$COP Tj = +7^{\circ}C$	6.63	5.30
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	8.44	6.71
Pdh Tj = Tbiv	4.63 kW	4.45 kW
COP Tj = Tbiv	3.59	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52
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

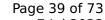




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PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW





COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
$COP Tj = +2^{\circ}C$	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COP Tj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 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	39.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	240	

## 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	242
Mixed water at 40 C	242 1



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 40 S LINK**

Configure model		
Model name	ARIANEXT FLEX 40 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		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure		
Defrost test	passed	

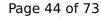
EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82

## Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.33 kW
$\eta_{s}$	231 %	144 %
Prated	2.80 kW	2.33 kW
SCOP	5.86	3.67
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.33 kW
COP Tj = +2°C	4.12	2.30
Pdh Tj = +7°C	1.77 kW	1.56 kW
COP Tj = +7°C	5.53	2.99
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.73	5.65
Pdh Tj = Tbiv	2.80 kW	2.33 kW
COP Tj = Tbiv	4.12	2.30





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.65 kW	7.35 kW





$\eta_{s}$	148 %	117 %
Prated	7.65 kW	7.35 kW
SCOP	3.77	2.99
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.63 kW	4.45 kW
$COP Tj = -7^{\circ}C$	3.59	2.79
Pdh Tj = $+2$ °C	2.85 kW	2.82 kW
COP Tj = +2°C	4.97	3.71
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW
$COPTj = +7^{\circ}C$	6.63	5.30
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	8.44	6.71
Pdh Tj = Tbiv	4.63 kW	4.45 kW
COP Tj = Tbiv	3.59	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52
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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW





COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
$COP Tj = +2^{\circ}C$	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COP Tj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh
	•	

# 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	39.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	240	

## 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	242	



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 40 S NET**

Configure model		
Model name	NIMBUS COMPACT 40 S NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

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

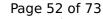
EN 14511-2			
Low temperature Medium temperature			
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	

## Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.33 kW
$\eta_{s}$	231 %	144 %
Prated	2.80 kW	2.33 kW
SCOP	5.86	3.67
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.33 kW
COP Tj = +2°C	4.12	2.30
Pdh Tj = +7°C	1.77 kW	1.56 kW
COP Tj = +7°C	5.53	2.99
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.73	5.65
Pdh Tj = Tbiv	2.80 kW	2.33 kW
COP Tj = Tbiv	4.12	2.30





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

## Colder Climate

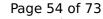
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.65 kW	7.35 kW





	<u> </u>	
$\eta_{s}$	148 %	117 %
Prated	7.65 kW	7.35 kW
SCOP	3.77	2.99
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.63 kW	4.45 kW
COP Tj = -7°C	3.59	2.79
Pdh Tj = +2°C	2.85 kW	2.82 kW
COP Tj = +2°C	4.97	3.71
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW
$COP Tj = +7^{\circ}C$	6.63	5.30
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	8.44	6.71
Pdh Tj = Tbiv	4.63 kW	4.45 kW
COP Tj = Tbiv	3.59	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52
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

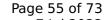




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW





COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
$COP Tj = +2^{\circ}C$	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COP Tj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh
	•	

# Domestic Hot Water (DHW)



## Warmer Climate

EN 16147		
	V.	
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	240	

## Colder Climate

EN 16147	
Declared load profile	XL
Deciared toda profile	
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	242 I



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 40 S NET**

Configure model		
Model name   NIMBUS FLEX 40 S NET		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone Colder Climate + Warmer Climate		
Reversibility No		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	

## Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	2.80 kW	2.33 kW
$\eta_{s}$	231 %	144 %
Prated	2.80 kW	2.33 kW
SCOP	5.86	3.67
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	2.80 kW	2.33 kW
COP Tj = +2°C	4.12	2.30
Pdh Tj = +7°C	1.77 kW	1.56 kW
COP Tj = +7°C	5.53	2.99
Pdh Tj = 12°C	1.61 kW	1.61 kW
COP Tj = 12°C	7.73	5.65
Pdh Tj = Tbiv	2.80 kW	2.33 kW
COP Tj = Tbiv	4.12	2.30





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.80 kW	2.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.12	2.30
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	640 kWh	848 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.65 kW	7.35 kW





This information was gen	lerated by the HP KETI	MARK database on 7 Jul 2022
$\eta_{s}$	148 %	117 %
Prated	7.65 kW	7.35 kW
SCOP	3.77	2.99
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.63 kW	4.45 kW
$COPTj = -7^{\circ}C$	3.59	2.79
Pdh Tj = +2°C	2.85 kW	2.82 kW
COP Tj = +2°C	4.97	3.71
Pdh Tj = $+7^{\circ}$ C	1.76 kW	1.73 kW
$COPTj = +7^{\circ}C$	6.63	5.30
Pdh Tj = 12°C	1.62 kW	1.61 kW
COP Tj = 12°C	8.44	6.71
Pdh Tj = Tbiv	4.63 kW	4.45 kW
COP Tj = Tbiv	3.59	2.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.92 kW	2.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.36	1.52
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	4.00 kW	4.00 kW
Annual energy consumption Qhe	5001 kWh	6057 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW





COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
$COP Tj = +2^{\circ}C$	4.69	3.37
Pdh Tj = $+7^{\circ}$ C	1.84 kW	1.72 kW
$COP Tj = +7^{\circ}C$	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19
Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh
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# 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	39.0 W
Reference hot water temperature	52.6 °C
Mixed water at 40°C	240

## 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	242 I



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 40 S**

Configure model		
Model name	ARIANEXT COMPACT 40 S	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

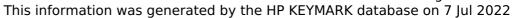
General Data			
Power supply 1x230V 50Hz			

# 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	passed	
Complete power supply failure		
Defrost test	passed	

EN 14511-2		
Low temperature Medium temperature		
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82

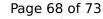
## **Average Climate**





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW
COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
COP Tj = +2°C	4.69	3.37
Pdh Tj = +7°C	1.84 kW	1.72 kW
COP Tj = +7°C	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19





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Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	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	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 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 40 S**

Configure model		
Model name ARIANEXT FLEX 40 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	passed	
Complete power supply failure		
Defrost test	passed	

EN 14511-2			
Low temperature Medium temperature			
Heat output	3.50 kW	2.96 kW	
El input	0.69 kW	1.05 kW	
СОР	5.11	2.82	

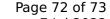
## **Average Climate**



EN 12102-1		
Low temperature Medium temperature		
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

CEN heat pump KEYMARK

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.20 kW	4.78 kW
$\eta_{s}$	191 %	135 %
Prated	5.20 kW	4.78 kW
SCOP	4.85	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.60 kW	4.23 kW
COP Tj = -7°C	3.34	2.35
Pdh Tj = +2°C	2.79 kW	2.76 kW
COP Tj = +2°C	4.69	3.37
Pdh Tj = +7°C	1.84 kW	1.72 kW
COP Tj = +7°C	6.28	4.26
Pdh Tj = 12°C	1.62 kW	1.58 kW
COP Tj = 12°C	8.44	6.19





This information was generated by the HP KEYMARK database on 7 Jul 2022 Pdh Tj = Tbiv4.60 kW 4.23 kW 3.34 2.35 COP Tj = TbivPdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 4.15 kW 3.74 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 3.01 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 1.05 kW 1.04 kW

2215 kWh

2866 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 I	