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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 14511-2				
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		

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 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°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





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

# 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 1482	25	
	Low temperature	Medium temperature





		THE WATER COLUMN TO THAT I
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
$COP Tj = +7^{\circ}C$	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
$\eta_{s}$	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





rine information was genera		
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°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
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# **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 1x230V 50Hz		

# Heating

COP

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

2.82

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

## **Average Climate**

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



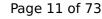


Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

## Warmer Climate

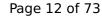
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 36 dB(A) 36 dB(A) Sound power level outdoor 56 dB(A) 56 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE WATER COLUMN TO THAT I
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
$COP Tj = +7^{\circ}C$	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 tempe			
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	





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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
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
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# **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	

EN 14511-2

# Heating

Low temperature	Medium temperature
3.50 kW	2.96 kW

Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82

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	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°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



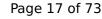


Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.05 kW	1.04 kW
Annual energy consumption Qhe	2215 kWh	2866 kWh

## Warmer Climate

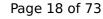
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE WATER COLUMN TO THAT I
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
$COP Tj = +7^{\circ}C$	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



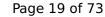


PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	640 kWh	848 kWh

## 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
$\eta_{s}$	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





ring information was genera		
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
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
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# **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

COP

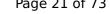
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EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW

2.82

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	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



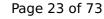


Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

## Warmer Climate

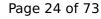
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	56 dB(A)	56 dB(A)	

EN 1482	25	
	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
COPTj = +2°C	4.12	2.30
Pdh Tj = $+7^{\circ}$ C	1.77 kW	1.56 kW
$COP Tj = +7^{\circ}C$	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
$\eta_{s}$	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
$COPTj = +7^{\circ}C$	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



# **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

COP

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

2.82

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**

5.11



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	





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

## 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 1482	25	
	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





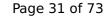
This	information	was gene	rated by	the HP k	<b>KEYMARK</b>	database o	n 18 Mar	2022

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	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			
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°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

# Domestic Hot Water (DHW)

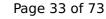
# Average Climate

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	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	



# **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 14511-2			
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	

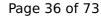
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **Average Climate**



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



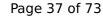


Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

## Warmer Climate

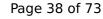
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature





	•	YMARK database on 18 Mar 2
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



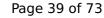


This information was generat	ed by the HP KEYMARk	K database on 18 Mar 2022

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	640 kWh	848 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	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°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

# Domestic Hot Water (DHW)

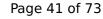


# Average Climate

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





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



# **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 14511-2			
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	

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	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





4.60 kW	4.23 kW
	4.23 KVV
3.34	2.35
4.15 kW	3.74 kW
3.01	2.04
0.90	0.90
60 °C	60 °C
11 W	11 W
Electricity	Electricity
1.05 kW	1.04 kW
2215 kWh	2866 kWh
	4.15 kW  3.01  0.90  60 °C  11 W  11 W  11 W  Electricity  1.05 kW

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

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°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

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





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	



# **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

	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	

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	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



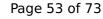


Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

## Warmer Climate

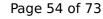
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 36 dB(A) 36 dB(A) Sound power level outdoor 56 dB(A) 56 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	•	YMARK database on 18 Mar 2
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

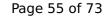




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	640 kWh	848 kWh

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°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

# Domestic Hot Water (DHW)

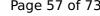


# Average Climate

EN 16147		
Declared lead profile	XL	
Declared load profile		
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	39.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	240	





 $$\operatorname{\textit{Page}}\xspace$  57 of 73 This information was generated by the HP KEYMARK database on 18 Mar 2022

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	



# **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

COP

5.11

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

2.82

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	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



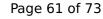


Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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

## 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
COPTj = +2°C	4.12	2.30
Pdh Tj = $+7^{\circ}$ C	1.77 kW	1.56 kW
$COP Tj = +7^{\circ}C$	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

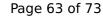




PSB	11 W	11 W
PCK	11 W	11 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	640 kWh	848 kWh

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
Pan IJ = -/°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

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





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	



# **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 14511-2		
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

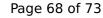
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



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





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)

# **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 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		

EN 14511-2

# Heating

Low temperature	Medium temperature
3.50 kW	2.96 kW

Heat output	3.50 kW	2.96 kW
El input	0.69 kW	1.05 kW
СОР	5.11	2.82

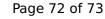
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



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

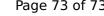




Pdh Tj = Tbiv	4.60 kW	4.23 kW
COP Tj = Tbiv	3.34	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.15 kW	3.74 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.01	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	11 W	11 W
РТО	11 W	11 W
PSB	11 W	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)

# **Average Climate**





# $$\operatorname{\textit{Page}}\xspace$ 73 of 73 This information was generated by the HP KEYMARK database on 18 Mar 2022

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		