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

#### Login

Summary of	NIMBUS 90 S - ARIANEXT 90 S - AEROTOP SPLIT 09	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 90 S - ARIANEXT 90 S - AEROTOP SPLIT 09				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R410A				
Mass of Refrigerant	4.3 kg				
Certification Date	19.12.2017				



# **Model: AEROTOP SPLIT 09M-R**

Configure model			
Model name	AEROTOP SPLIT 09M-R		
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	3x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	

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	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	10.38 kW	9.38 kW	
$\eta_{s}$	189 %	133 %	
Prated	10.38 kW	9.38 kW	
SCOP	4.80	3.40	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	9.18 kW	8.30 kW	
COP Tj = -7°C	3.32	2.32	
Pdh Tj = +2°C	5.60 kW	5.31 kW	
COP Tj = +2°C	4.59	3.22	
Pdh Tj = +7°C	3.64 kW	3.47 kW	
COP Tj = +7°C	5.98	4.38	
Pdh Tj = 12°C	4.44 kW	4.22 kW	
COP Tj = 12°C	9.48	6.80	



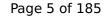


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	62 dB(A)	62 dB(A)		

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





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Time innermation was general		
COP Tj = -7°C	3.65	2.75
Pdh Tj = $+2$ °C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh



# **Model: ARIANEXT PLUS 90 S-T LINK**

Configure model		
Model name	ARIANEXT PLUS 90 S-T 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	3x230V 50Hz	

# Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	8.65 kW	7.67 kW		
El input	1.65 kW	2.39 kW		
СОР	5.25	3.21		

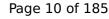
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



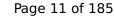


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

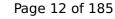
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COPTj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1		



# **Model: ARIANEXT PLUS 90 S-T**

Configure model		
Model name	ARIANEXT PLUS 90 S-T	
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 3x230V 50Hz		

# Heating

EN :	1451	L1-2
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	Low temperature Medium temperature		
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	

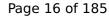
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



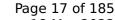


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

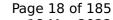
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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

	<u> </u>	
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh



# **Model: NIMBUS PLUS 90 S-T NET**

Configure model		
Model name	NIMBUS PLUS 90 S-T 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 3x230V 50Hz		

EN 14511-2

# Heating

Low temperature	Medium temperature
8.65 kW	7.67 kW

Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



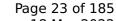


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



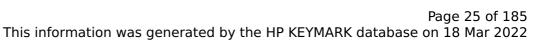


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





Time intermediation was general		
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh



# **Model: AEROTOP SPLIT 09M-CR**

Configure model		
Model name	AEROTOP SPLIT 09M-CR	
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 3x230V 50Hz		

# Heating

EN 14511	-2
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	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



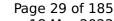


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

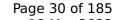
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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

	<u> </u>	
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)



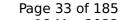
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248 I	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	



# **Model: ARIANEXT COMPACT 90 S-T LINK**

Configure model		
Model name	ARIANEXT COMPACT 90 S-T 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 3x230V 50Hz			

# Heating

COP

5.25

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW

3.21

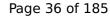
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



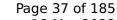


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Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

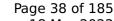
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature





<u> </u>	•	YMARK database on 18 Mar i
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
COP Tj = +7°C	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
Low temperature	Medium temperature	
14.97 kW	13.72 kW	
150 %	106 %	
14.97 kW	13.72 kW	
3.84	2.73	
-7 °C	-7 °C	
-20 °C	-20 °C	
9.06 kW	8.30 kW	
	Low temperature  14.97 kW  150 %  14.97 kW  3.84  -7 °C  -20 °C	





		T T T T T T T T T T T T T T T T T T T
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

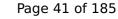
# Domestic Hot Water (DHW)

# Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	106 %
СОР	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 I

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
COP	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
	53.2 °C	
Reference hot water temperature		
Mixed water at 40°C	248 I	





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	

# **Model: ARIANEXT FLEX 90 S-T LINK**

Configure model		
Model name	ARIANEXT FLEX 90 S-T 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	3x230V 50Hz	

# Heating

COP

5.25

FIA 14211-5		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW

3.21

FN 14511-2

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



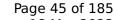


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

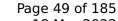
# Domestic Hot Water (DHW)

# Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	106 %
СОР	2.56
Heating up time	01:28 h:min
Standby power input	52.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	251 l

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 ℃	
Mixed water at 40°C	248	





EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 l



# **Model: ARIANEXT FLEX 90 S-T - 300 LINK**

Configure model		
Model name	ARIANEXT FLEX 90 S-T - 300 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	3x230V 50Hz	

# Heating

COP

5.25

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW

3.21

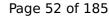
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



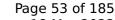


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

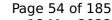
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

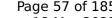
# Domestic Hot Water (DHW)

# Average Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	122 %	
СОР	3.06	
Heating up time	01:52 h:min	
Standby power input	53.0 W	
Reference hot water temperature	54.5 °C	
Mixed water at 40°C	434 I	

## Warmer Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	01:34 h:min	
Standby power input	48.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	430 I	





# $$\operatorname{\textit{Page}}\xspace$ 57 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	97 %	
СОР	2.43	
Heating up time	02:15 h:min	
Standby power input	63.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	422 I	



# **Model: NIMBUS COMPACT 90 S-T NET**

Configure model		
Model name	NIMBUS COMPACT 90 S-T 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	3x230V 50Hz	

# Heating

EN 14	<b>51</b>	1-	2
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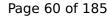
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



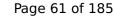


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

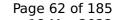
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825				
Low temperature Medium temperature				
14.97 kW	13.72 kW			
150 %	106 %			
14.97 kW	13.72 kW			
3.84	2.73			
-7 °C	-7 °C			
-20 °C	-20 °C			
9.06 kW	8.30 kW			
	Low temperature  14.97 kW  150 %  14.97 kW  3.84  -7 °C  -20 °C			





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

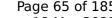
# Domestic Hot Water (DHW)

# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248 I	





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	



# **Model: NIMBUS FLEX 90 S-T NET**

Configure model		
Model name	NIMBUS FLEX 90 S-T 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	3x230V 50Hz	

# Heating

EN 14	<b>51</b>	1-	2
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	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

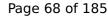
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



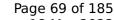


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



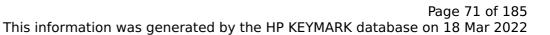


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = $+2$ °C	5.53 kW	4.86 kW
$COP Tj = +2^{\circ}C$	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
COP Tj = +7°C	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

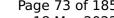
# Domestic Hot Water (DHW)

# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 l	

## Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	111 %
СОР	2.70
Heating up time	01:16 h:min
Standby power input	39.0 W
Reference hot water temperature	53.2 °C
Mixed water at 40°C	248 I





# $$\operatorname{\textit{Page}}\ 73$$ of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 I



# Model: NIMBUS FLEX 90 S-T - 300 NET

Configure model		
Model name	NIMBUS FLEX 90 S-T - 300 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 3x230V 50Hz		

# Heating

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	

3.21

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**

5.25



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



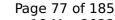


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COP Tj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



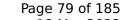


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





	<u> </u>	
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)

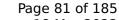
# Average Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	122 %	
СОР	3.06	
Heating up time	01:52 h:min	
Standby power input	53.0 W	
Reference hot water temperature	54.5 °C	
Mixed water at 40°C	434 I	

### Warmer Climate

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	01:34 h:min	
Standby power input	48.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	430 I	

### Colder Climate





EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	97 %	
СОР	2.43	
Heating up time	02:15 h:min	
Standby power input	63.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	422 I	



# **Model: ARIANEXT COMPACT 90 S-T**

Configure model			
Model name	ARIANEXT COMPACT 90 S-T		
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone n/a			
Reversibility No			
Cooling mode application (optional) n/a			

General Data		
Power supply 3x230V 50Hz		

# Heating

EN 14511-2				
Low temperature Medium temperature				
Heat output	8.65 kW	7.67 kW		
El input	1.65 kW	2.39 kW		
СОР	5.25	3.21		

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{S}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



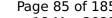
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Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Domestic Hot Water (DHW)

# Average Climate





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	3.01	
Heating up time	00:47 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	247 I	



# **Model: ARIANEXT FLEX 90 S-T**

Configure model		
Model name ARIANEXT FLEX 90 S-T		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

# Heating

COP

5.25

	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW

3.21

EN 14511-2

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 p		
Defrost test	passed	

## **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



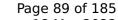
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Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	3.01	
Heating up time	00:47 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	247 I	



# **Model: ARIANEXT FLEX 90 S-T - 300**

Configure model		
Model name ARIANEXT FLEX 90 S-T - 300		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

# Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



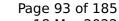
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Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:52 h:min	
Standby power input	61.0 W	
Reference hot water temperature	54.4 °C	
Mixed water at 40°C	434 I	



# **Model: AEROTOP SPLIT 09M-RX**

Configure model		
Model name	AEROTOP SPLIT 09M-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

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	

3.21

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**

5.25

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



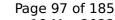


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

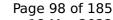
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

Low temperature	Medium temperature
14.97 kW	13.72 kW
150 %	106 %
14.97 kW	13.72 kW
3.84	2.73
-7 °C	-7 °C
-20 °C	-20 °C
9.06 kW	8.30 kW
	14.97 kW 150 % 14.97 kW 3.84 -7 °C -20 °C



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ring information was genera		
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COPTj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1		



# **Model: ARIANEXT PLUS 90 S LINK**

Configure model		
Model name   ARIANEXT PLUS 90 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

ΕN	14511-	2

	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{S}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = $+2^{\circ}$ C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



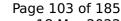


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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

ring information was genera		
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COPTj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh
1		



# **Model: ARIANEXT PLUS 90 S**

Configure model		
Model name	ARIANEXT PLUS 90 S	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW

3.21

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

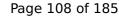
## **Average Climate**

5.25



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	62 dB(A)	62 dB(A)		

EN 14825				
	Low temperature	Medium temperature		
Pdesignh	10.38 kW	9.38 kW		
$\eta_{s}$	189 %	133 %		
Prated	10.38 kW	9.38 kW		
SCOP	4.80	3.40		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	9.18 kW	8.30 kW		
COP Tj = -7°C	3.32	2.32		
Pdh Tj = +2°C	5.60 kW	5.31 kW		
COP Tj = +2°C	4.59	3.22		
Pdh Tj = +7°C	3.64 kW	3.47 kW		
COP Tj = +7°C	5.98	4.38		
Pdh Tj = 12°C	4.44 kW	4.22 kW		
COP Tj = 12°C	9.48	6.80		



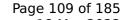


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

## Warmer Climate

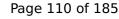
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825				
	Low temperature	Medium temperature		





Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COP Tj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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This information was generated by the HP KETMARK database on 18 Mar 2022		
COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = +7°C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh



# **Model: NIMBUS PLUS 90 S NET**

Configure model		
Model name	NIMBUS PLUS 90 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 :	145	L1-2
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	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

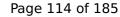
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



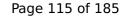


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

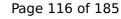
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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This information was generated by the HERLTMARK database on 16 Mar 2022			
COP Tj = -7°C	3.65	2.75	
Pdh Tj = +2°C	5.53 kW	4.86 kW	
COP Tj = +2°C	5.01	3.60	
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW	
$COP Tj = +7^{\circ}C$	6.51	5.09	
Pdh Tj = 12°C	4.44 kW	4.30 kW	
COP Tj = 12°C	9.48	7.53	
Pdh Tj = Tbiv	9.06 kW	8.30 kW	
COP Tj = Tbiv	3.65	2.75	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	18 W	18 W	
РТО	19 W	19 W	
PSB	18 W	18 W	
PCK	18 W	18 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	6.00 kW	6.00 kW	
Annual energy consumption Qhe	9620 kWh	12389 kWh	



# **Model: AEROTOP SPLIT 09M-CRX**

Configure model		
Model name	AEROTOP SPLIT 09M-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

5.25

EN 14511-2				
Low temperature Medium temperature				
Heat output	8.65 kW	7.67 kW		
El input	1.65 kW	2.39 kW		

3.21

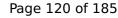
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



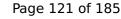


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

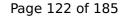
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COP Tj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



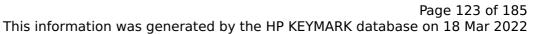


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)

53.6 °C

251 I

# **Average Climate**

**EN 16147** Declared load profile XLEfficiency ηDHW 106 % COP 2.56 Heating up time 01:28 h:min Standby power input 52.0 W

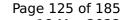
# Warmer Climate

Mixed water at 40°C

Reference hot water temperature

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248	

### Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	



# **Model: ARIANEXT COMPACT 90 S LINK**

Configure model		
Model name	ARIANEXT COMPACT 90 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

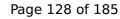
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



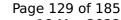


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

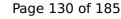
# EN 12102-1Low temperatureMedium temperatureSound power level indoor43 dB(A)43 dB(A)Sound power level outdoor62 dB(A)62 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W





PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

# Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW



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

COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)



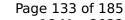
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 ℃	
Mixed water at 40°C	248	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 I	



# **Model: ARIANEXT FLEX 90 S - 300 LINK**

Configure model			
Model name ARIANEXT FLEX 90 S - 300 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	8.65 kW	7.67 kW		
El input	1.65 kW	2.39 kW		
СОР	5.25	3.21		

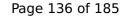
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{S}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = $+2^{\circ}$ C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



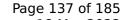


9.18 kW	8.30 kW
3.32	2.32
9.16 kW	9.73 kW
2.78	1.73
0.90	0.90
60 °C	60 °C
18 W	18 W
19 W	19 W
18 W	18 W
18 W	18 W
Electricity	Electricity
1.22 kW	0.00 kW
4468 kWh	5700 kWh
	3.32  9.16 kW  2.78  0.90  60 °C  18 W  19 W  18 W  Electricity  1.22 kW

# Warmer Climate

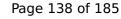
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





5	•	
Pdesignh	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.86 kW	6.27 kW
$COP Tj = +2^{\circ}C$	4.10	2.45
Pdh Tj = $+7$ °C	4.46 kW	4.05 kW
$COP Tj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



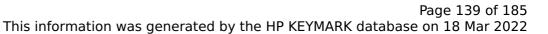


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
$COP Tj = +2^{\circ}C$	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)

434 I

# **Average Climate**

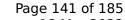
**EN 16147** Declared load profile XXL Efficiency ηDHW 122 % COP 3.06 01:52 h:min Heating up time Standby power input 53.0 W Reference hot water temperature 54.5 °C

# Warmer Climate

Mixed water at 40°C

EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	01:34 h:min	
Standby power input	48.0 W	
Reference hot water temperature	54.2 °C	
Mixed water at 40°C	430	

### Colder Climate





EN 16147		
Declared load profile	XXL	
Efficiency ηDHW	97 %	
СОР	2.43	
Heating up time	02:15 h:min	
Standby power input	63.0 W	
Reference hot water temperature	53.4 °C	
Mixed water at 40°C	422 I	



# **Model: ARIANEXT FLEX 90 S LINK**

Configure model		
Model name	ARIANEXT FLEX 90 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

COP

5.25

LN 14311-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	

3.21

FN 14511-2

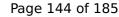
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



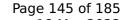


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





5	•	
Pdesignh	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.86 kW	6.27 kW
$COP Tj = +2^{\circ}C$	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
$COP Tj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



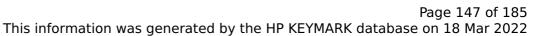


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = $+2$ °C	5.53 kW	4.86 kW
$COP Tj = +2^{\circ}C$	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)



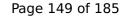
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251	

# Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248 I	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	



# **Model: NIMBUS COMPACT 90 S NET**

Configure model		
Model name	NIMBUS COMPACT 90 S NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511	-2
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	Low temperature	Medium temperature
Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

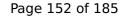
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

# **Average Climate**



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{S}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



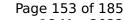


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

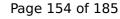
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COP Tj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



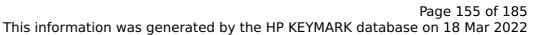


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
$COP Tj = +2^{\circ}C$	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)



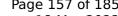
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

# Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248 I	

## Colder Climate





# $$\operatorname{\textit{Page}}\xspace$ 157 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XL
Efficiency ηDHW	89 %
СОР	2.15
Heating up time	01:49 h:min
Standby power input	57.0 W
Reference hot water temperature	53.6 °C
Mixed water at 40°C	250 I



# **Model: NIMBUS FLEX 90 S NET**

Configure model		
Model name	NIMBUS FLEX 90 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	

EN 14511-2

Low temperature

# Heating

Medium temperature
7.67 kW

Heat output	8.65 kW	7.67 kW
El input	1.65 kW	2.39 kW
СОР	5.25	3.21

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



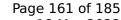


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Warmer Climate

# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 14825		
	Low temperature	Medium temperature





5	•	
Pdesignh	6.86 kW	6.27 kW
$\eta_s$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.86 kW	6.27 kW
$COP Tj = +2^{\circ}C$	4.10	2.45
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.05 kW
$COP Tj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



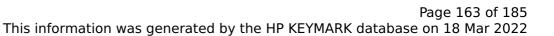


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

## Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = $+2$ °C	5.53 kW	4.86 kW
$COP Tj = +2^{\circ}C$	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)



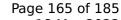
# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	106 %	
СОР	2.56	
Heating up time	01:28 h:min	
Standby power input	52.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	251 I	

## Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	111 %	
СОР	2.70	
Heating up time	01:16 h:min	
Standby power input	39.0 W	
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248 I	

## Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	89 %	
СОР	2.15	
Heating up time	01:49 h:min	
Standby power input	57.0 W	
Reference hot water temperature	53.6 °C	
Mixed water at 40°C	250 l	



# Model: NIMBUS FLEX 90 S - 300 NET

Configure model		
Model name	NIMBUS FLEX 90 S - 300 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

5.25

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	

3.21

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



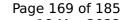


Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh
	*	·

# **Warmer Climate**

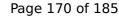
# EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 62 dB(A) 62 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.86 kW	6.27 kW
$\eta_{s}$	245 %	153 %
Prated	6.86 kW	6.27 kW
SCOP	6.20	3.90
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.86 kW	6.27 kW
COP Tj = +2°C	4.10	2.45
Pdh Tj = +7°C	4.46 kW	4.05 kW
$COPTj = +7^{\circ}C$	5.44	3.19
Pdh Tj = 12°C	4.36 kW	4.11 kW
COP Tj = 12°C	8.44	5.72
Pdh Tj = Tbiv	6.86 kW	6.27 kW
COP Tj = Tbiv	4.10	2.45
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.86 kW	6.27 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.10	2.45
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W



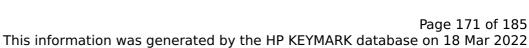


PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1477 kWh	2149 kWh

# Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	14.97 kW	13.72 kW
$\eta_{s}$	150 %	106 %
Prated	14.97 kW	13.72 kW
SCOP	3.84	2.73
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.06 kW	8.30 kW





COP Tj = -7°C	3.65	2.75
Pdh Tj = +2°C	5.53 kW	4.86 kW
COP Tj = +2°C	5.01	3.60
Pdh Tj = $+7^{\circ}$ C	3.71 kW	3.61 kW
$COP Tj = +7^{\circ}C$	6.51	5.09
Pdh Tj = 12°C	4.44 kW	4.30 kW
COP Tj = 12°C	9.48	7.53
Pdh Tj = Tbiv	9.06 kW	8.30 kW
COP Tj = Tbiv	3.65	2.75
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.33 kW	2.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.17	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
PTO	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9620 kWh	12389 kWh

# Domestic Hot Water (DHW)

# Average Climate

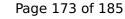
This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
Declared load profile	XXL
Efficiency ηDHW	122 %
СОР	3.06
Heating up time	01:52 h:min
Standby power input	53.0 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	434

# Warmer Climate

EN 16147	
Declared load profile	XXL
Efficiency ηDHW	132 %
СОР	3.30
Heating up time	01:34 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	430 I

## Colder Climate





EN 16147	
Declared load profile	XXL
Efficiency ηDHW	97 %
СОР	2.43
Heating up time	02:15 h:min
Standby power input	63.0 W
Reference hot water temperature	53.4 °C
Mixed water at 40°C	422 I



# **Model: ARIANEXT COMPACT 90 S**

Configure model	
Model name	ARIANEXT COMPACT 90 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

COP

5.25

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	

3.21

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



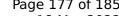
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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

Domestic Hot Water (DHW)

Average Climate





# $$\operatorname{\textit{Page}}\xspace$ 177 of 185 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	3.01	
Heating up time	00:47 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	247 I	



# **Model: ARIANEXT FLEX 90 S**

Configure model		
Model name ARIANEXT FLEX 90 S		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

# Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



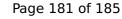
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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh

# Domestic Hot Water (DHW)

# Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	127 %	
СОР	3.01	
Heating up time	00:47 h:min	
Standby power input	38.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	247 I	



# **Model: ARIANEXT FLEX 90 S - 300**

Configure model		
Model name	ARIANEXT FLEX 90 S - 300	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

# Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.65 kW	7.67 kW	
El input	1.65 kW	2.39 kW	
СОР	5.25	3.21	

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	43 dB(A)	43 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.38 kW	9.38 kW
$\eta_{s}$	189 %	133 %
Prated	10.38 kW	9.38 kW
SCOP	4.80	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.18 kW	8.30 kW
COP Tj = -7°C	3.32	2.32
Pdh Tj = +2°C	5.60 kW	5.31 kW
COP Tj = +2°C	4.59	3.22
Pdh Tj = +7°C	3.64 kW	3.47 kW
COP Tj = +7°C	5.98	4.38
Pdh Tj = 12°C	4.44 kW	4.22 kW
COP Tj = 12°C	9.48	6.80



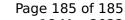
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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	9.18 kW	8.30 kW
COP Tj = Tbiv	3.32	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.16 kW	9.73 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	1.73
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	18 W	18 W
РТО	19 W	19 W
PSB	18 W	18 W
PCK	18 W	18 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.22 kW	0.00 kW
Annual energy consumption Qhe	4468 kWh	5700 kWh
	*	·

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:52 h:min	
Standby power input	61.0 W	
Reference hot water temperature	54.4 °C	
Mixed water at 40°C	434	