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Login

Summary of	NIMBUS 90 M - ARIANEXT 90 M - AEROTOP MONO 09 - ENERGION M 9	Reg. No.	ICIM-PDC- 000001
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 M - ARIANEXT 90 M - AEROTOP MONO 09 - ENERGIO	N M 9	
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.9 kg		
Certification Date	19.12.2017		



Model: AEROTOP MONO 09M-R

Configure model			
Model name AEROTOP MONO 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	

EN 14511-2

Heating

Medium temperature
7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)		
Sound power level outdoor	63 dB(A)	63 dB(A)		

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



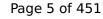


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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.65 kW	6.26 kW
COPTj = +2°C	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



This information was general	ted by the HI KLIMAN	in database on 10 Mai 2022
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
COP Tj = +7°C	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: AEROTOP MONO 09M-RL

Configure model	
Model name	AEROTOP MONO 09M-RL
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

5.10

COP

	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

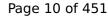
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



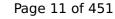


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

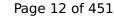
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.65 kW	6.26 kW
COPTj = +2°C	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT LITE 90 M-T LINK

Configure model		
Model name	ARIANEXT LITE 90 M-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

COP

5.10

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	

3.04

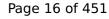
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



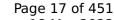


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

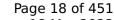
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

Low temperature	Medium temperature
15.17 kW	13.91 kW
152 %	109 %
15.17 kW	13.91 kW
3.88	2.81
-7 °C	-7 °C
-20 °C	-20 °C
9.18 kW	8.42 kW
	15.17 kW 152 % 15.17 kW 3.88 -7 °C -20 °C



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	<u> </u>	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
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WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT LITE 90 M-T

Configure model		
Model name	ARIANEXT LITE 90 M-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 14	51	1-	2
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	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



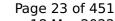


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

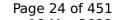
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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	<u> </u>	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT PLUS 90 M-T LINK

Configure model		
Model name	ARIANEXT PLUS 90 M-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

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	

3.04

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

5.10



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



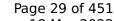


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

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$COP Tj = -7^{\circ}C$	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COPTj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
t		



Model: ARIANEXT PLUS 90 M-T

Configure model		
Model name	ARIANEXT PLUS 90 M-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	

EN 14511-2

Heating

_	
Low temperature	Medium temperature
8.49 kW	7.59 kW
8.49 kW	7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

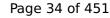
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{S}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = $+2^{\circ}$ C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81
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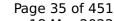


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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

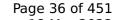
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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ins mornation was genera		
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COPTj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
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Model: NIMBUS PLUS 90 M-T NET

Configure model		
Model name	NIMBUS PLUS 90 M-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

Low temperature

Heating

•	Medium temperature
	7.59 kW

	1	
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



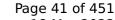


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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

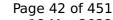
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

	<u> </u>	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: NIMBUS POCKET 90 M-T NET

Configure model		
Model name	NIMBUS POCKET 90 M-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		

Heating

COP

5.10

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81





Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Medium temperature	
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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	TR database on 10 Mai 202.
3.67	2.77
5.61 kW	5.12 kW
5.17	3.67
3.68 kW	3.75 kW
6.75	5.12
4.43 kW	4.30 kW
8.92	6.96
9.18 kW	8.42 kW
3.67	2.77
6.31 kW	2.06 kW
2.18	0.54
0.90	0.90
60 °C	60 °C
20 W	20 W
Electricity	Electricity
6.00 kW	6.00 kW
9625 kWh	12191 kWh
	3.67 5.61 kW 5.17 3.68 kW 6.75 4.43 kW 8.92 9.18 kW 3.67 6.31 kW 2.18 0.90 60 °C 20 W 20 W 20 W Electricity 6.00 kW



Model: AEROTOP MONO 09M-CR

Configure model		
Model name	AEROTOP MONO 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	

EN 14511-2

Heating

Low temperature	Medium temperature
8.49 kW	7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

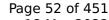
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



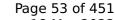


Pdh Tj = Tbiv 9.38 kW 8.31 kW COP Tj = Tbiv 3.29 2.32 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 9.14 kW 9.32 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.77 1.68 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 20 W 20 W PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.47 kW 0.07 kW Annual energy consumption Qhe 4561 kWh 5878 kWh		-	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.29	2.32
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
WTOL 60 °C 60 °C Poff 20 W 20 W PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W 20 W Electricity Electricity Supplementary Heater: Type of energy input 1.47 kW 0.07 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Poff 20 W 20 W PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.47 kW 0.07 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.47 kW 0.07 kW	WTOL	60 °C	60 °C
PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.47 kW 0.07 kW	Poff	20 W	20 W
PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.47 kW 0.07 kW	РТО	20 W	20 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 1.47 kW 0.07 kW	PSB	20 W	20 W
Supplementary Heater: PSUP 1.47 kW 0.07 kW	PCK	20 W	20 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 4561 kWh 5878 kWh	Supplementary Heater: PSUP	1.47 kW	0.07 kW
	Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

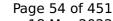
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

Average Climate

EN 1614	17
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





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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: ARIANEXT COMPACT 90 M-T LINK

Configure model	
Model name	ARIANEXT COMPACT 90 M-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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

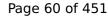
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



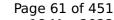


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

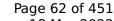
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature Medium temperature	





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperatu	re Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{S}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

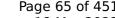
Average Climate

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$ 65 of 451 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: ARIANEXT FLEX 90 M-T - 300 LINK

Configure model		
Model name	ARIANEXT FLEX 90 M-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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

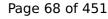
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



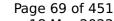


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

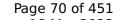
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
	•	

Domestic Hot Water (DHW)

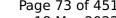
Average Climate

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	

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





$$\operatorname{\textit{Page}}\ 73$$ of 451 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: ARIANEXT FLEX 90 M-T LINK

Configure model		
Model name	ARIANEXT FLEX 90 M-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		

EN 14511-2

Heating

emperature	Medium temperature
V	7.59 kW

	Low temperature	Medidili telliperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



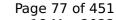


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

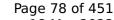
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825			
Low temperature Medium temperature			





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.65 kW	6.26 kW
COP Tj = +2°C	3.90	2.33
Pdh Tj = +7°C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperatu	re Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{S}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



CEN heat pump KEYMARK
 This information

COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

Average Climate

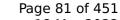
This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	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 COMPACT 90 M-T NET

Configure model		
Model name	NIMBUS COMPACT 90 M-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 14511-2				
Low temperature Medium temperature				
Heat output	8.49 kW	7.59 kW		
El input	1.66 kW	2.50 kW		
СОР	5.10	3.04		

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



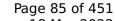


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825	
Low temperature Medium temperature	





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.65 kW	6.26 kW
COPTj = +2°C	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W



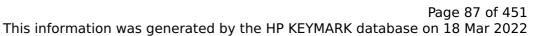


PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
COP Tj = +7°C	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



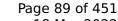
Average Climate

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

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 M-T - 300 NET

Configure model		
Model name	NIMBUS FLEX 90 M-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	

EN 14511-2

Heating

5.10

COP

	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



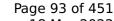


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

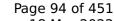
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C 3.67 2.77 Pdh Tj = +2°C 5.61 kW 5.12 kW COP Tj = +2°C 5.17 3.67 Pdh Tj = +7°C 3.68 kW 3.75 kW COP Tj = +7°C 6.75 5.12 Pdh Tj = 12°C 4.43 kW 4.30 kW COP Tj = 12°C 8.92 6.96 Pdh Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 6.31 kW 2.06 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.18 0.54 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 20 W 20 W PTO 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW Annual energy consumption Qhe 9625 kWh 12191 kWh			
COP Tj = +2°C	COP Tj = -7°C	3.67	2.77
Pdh Tj = +7°C 3.68 kW 3.75 kW COP Tj = +7°C 6.75 5.12 Pdh Tj = 12°C 4.43 kW 4.30 kW COP Tj = 12°C 8.92 6.96 Pdh Tj = Tbiv 9.18 kW 8.42 kW COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +7°C	COP Tj = +2°C	5.17	3.67
Pdh Tj = 12°C 4.43 kW 4.30 kW COP Tj = 12°C 8.92 6.96 Pdh Tj = Tbiv 9.18 kW 8.42 kW COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
COP Tj = 12°C	$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = Tbiv 9.18 kW 8.42 kW COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	8.92	6.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.67	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
WTOL 60 °C 60 °C Poff 20 W 20 W PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W Electricity Supplementary Heater: Type of energy input Electricity Electricity Electricity 6.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Poff 20 W 20 W PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Electricity 6.00 kW 6.00 kW	WTOL	60 °C	60 °C
PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	Poff	20 W	20 W
PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	РТО	20 W	20 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	PSB	20 W	20 W
Supplementary Heater: PSUP 6.00 kW 6.00 kW	PCK	20 W	20 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 9625 kWh 12191 kWh	Supplementary Heater: PSUP	6.00 kW	6.00 kW
	Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

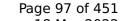
Average Climate

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: NIMBUS FLEX 90 M-T NET

Configure model		
Model name	NIMBUS FLEX 90 M-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		

EN 14511-2

Low temperature

Heating

	Medium temperature
_	7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

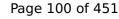
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



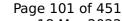


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

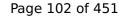
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W



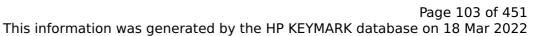


PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



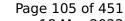
Average Climate

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 M-T

Configure model	
Model name	ARIANEXT COMPACT 90 M-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		

EN 14511-2

Heating

Medium temperature
7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)		
Sound power level outdoor	63 dB(A)	63 dB(A)		

	EN 14825	
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



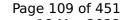
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This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 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 M-T - 300

Configure model	
Model name	ARIANEXT FLEX 90 M-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

COP

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input 1.66 kW 2.50 kW		2.50 kW

3.04

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

5.10



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



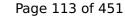
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This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 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



Model: ARIANEXT FLEX 90 M-T

Configure model		
Model name	ARIANEXT FLEX 90 M-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		

EN 14511-2

Heating

Low temperature	Medium temperature
8.49 kW	7.59 kW
8.49 kW	7.59 kW

	_	
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81

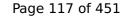


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This information was generated by the HF KETMAKK database on 16 Mar 202		
Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 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: AEROTOP MONO 09M-RX

Configure model		
Model name	AEROTOP MONO 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	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	

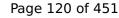
Average Climate

5.10



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



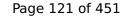


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

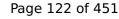
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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This information was genera	ted by the HE KLIMAI	N database on 10 Mai 202
$COP Tj = -7^{\circ}C$	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
COP Tj = +7°C	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: AEROTOP MONO 09M-RXL

Configure model		
Model name	AEROTOP MONO 09M-RXL	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

Heating

Heat output

El input

COP

1.66 kW

5.10

Low temperature	Medium temperature
8.49 kW	7.59 kW

2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



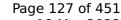


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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh
Annual energy consumption one	4501 KWII	JO70 KWII

Warmer Climate

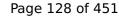
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
Low temperature Medium temperatur		
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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	<u> </u>	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COPTj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT LITE 90 M LINK

Configure model	
Model name	ARIANEXT LITE 90 M 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	

EN 14511-2

Low temperature

Heating

Medium temperature

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

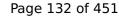
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



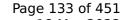


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

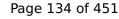
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
ηs	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Гbіv	-7 °C	-7 °C
ГОL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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	<u> </u>	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COPTj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT LITE 90 M

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

General Data	
Power supply	1x230V 50Hz

Heating

COP

5.10

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



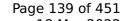


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

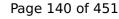
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT PLUS 90 M LINK

Configure model			
Model name	ARIANEXT PLUS 90 M 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	

EN 14511-2

Heating

Heat output

El input

COP

1.66 kW

5.10

Low temperature	Medium temperature
8.49 kW	7.59 kW

2.50 kW

3.04

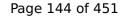
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



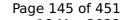


9.38 kW	8.31 kW
3.29	2.32
9.14 kW	9.32 kW
2.77	1.68
0.90	0.90
60 °C	60 °C
20 W	20 W
Electricity	Electricity
1.47 kW	0.07 kW
4561 kWh	5878 kWh
	3.29 9.14 kW 2.77 0.90 60 °C 20 W 20 W 20 W Electricity 1.47 kW

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η _s	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2^{\circ}$ C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT PLUS 90 M

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

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

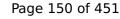
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



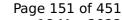


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

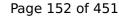
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
Low temperature Medium temp		Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: NIMBUS PLUS 90 M NET

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

General Data		
Power supply	1x230V 50Hz	

Heating

COP

5.10

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



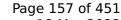


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

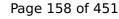
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COPTj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: NIMBUS POCKET 90 M NET

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

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

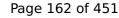
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



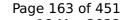


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COPTj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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	, -	in database on 10 Mai 2022
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: AEROTOP MONO 09M-CRX

Configure model		
Model name	AEROTOP MONO 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

EN 14511	-2
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	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

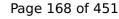
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



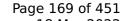


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

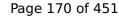
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

Low temperature	Medium temperature
15.17 kW	13.91 kW
152 %	109 %
15.17 kW	13.91 kW
3.88	2.81
-7 °C	-7 °C
-20 °C	-20 °C
9.18 kW	8.42 kW
	15.17 kW 152 % 15.17 kW 3.88 -7 °C



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

COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



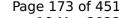
Average Climate

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 %	
COP	2.70	
Heating up time	01:16 h:min	
	39.0 W	
Standby power input		
Reference hot water temperature	53.2 °C	
Mixed water at 40°C	248	

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 173 of 451 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 l



Model: ARIANEXT COMPACT 90 M LINK

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

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

Heating

Heat output

5.10

El input

COP

Low temperature	Medium temperature	
8.49 kW	7.59 kW	
1.66 kW	2.50 kW	

3.04

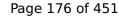
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



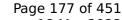


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

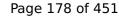
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W



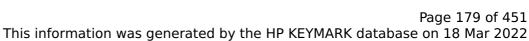


PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	15.17 kW	13.91 kW	
η_{s}	152 %	109 %	
Prated	15.17 kW	13.91 kW	
SCOP	3.88	2.81	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	9.18 kW	8.42 kW	





COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



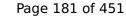
Average Climate

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 lead profile	XL	
Declared load profile	AL .	
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 FLEX 90 M LINK

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

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

Heating

Medium temperature
7.50.1.11

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

Low temperature

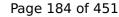
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



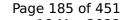


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

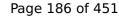
EN 12102-1Low temperatureMedium temperatureSound power level indoor15 dB(A)15 dB(A)Sound power level outdoor63 dB(A)63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



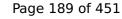
Average Climate

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	

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 FLEX 90 M - 300 LINK

Configure model		
Model name ARIANEXT FLEX 90 M - 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	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



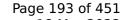


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C 3.67 2.77 Pdh Tj = +2°C 5.61 kW 5.12 kW COP Tj = +2°C 5.17 3.67 Pdh Tj = +7°C 3.68 kW 3.75 kW COP Tj = +7°C 6.75 5.12 Pdh Tj = 12°C 4.43 kW 4.30 kW COP Tj = 12°C 8.92 6.96 Pdh Tj = Tbiv 9.18 kW 8.42 kW COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 6.31 kW 2.06 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 20 W 20 W PTO 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW Annual energy consumption Qhe 9625 kWh 12191 kWh		I	
COP Tj = +2°C	COP Tj = -7°C	3.67	2.77
Pdh Tj = +7°C 3.68 kW 3.75 kW COP Tj = +7°C 6.75 5.12 Pdh Tj = 12°C 4.43 kW 4.30 kW COP Tj = 12°C 8.92 6.96 Pdh Tj = Tbiv 9.18 kW 8.42 kW COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +7°C	$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = 12°C 4.43 kW 4.30 kW COP Tj = 12°C 8.92 6.96 Pdh Tj = Tbiv 9.18 kW 8.42 kW COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
COP Tj = 12°C	$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = Tbiv 9.18 kW 8.42 kW COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = Tbiv 3.67 2.77 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	8.92	6.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.67	2.77
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
WTOL 60 °C 60 °C Poff 20 W 20 W PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W 20 W Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Poff 20 W 20 W PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
PTO 20 W 20 W PSB 20 W 20 W PCK 20 W 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Electricity 6.00 kW 6.00 kW	WTOL	60 °C	60 °C
PSB 20 W 20 W PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	Poff	20 W	20 W
PCK 20 W 20 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	РТО	20 W	20 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 6.00 kW 6.00 kW	PSB	20 W	20 W
Supplementary Heater: PSUP 6.00 kW 6.00 kW	PCK	20 W	20 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 9625 kWh 12191 kWh	Supplementary Heater: PSUP	6.00 kW	6.00 kW
	Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

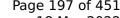
Average Climate

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

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

Colder Climate





$$\operatorname{\textit{Page}}\ 197$$ of 451 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 M NET

Configure model	
Model name	NIMBUS COMPACT 90 M 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

Heating

-	
Low temperature	Medium temperature
8.49 kW	7.59 kW

EN 14511-4		
СОР	5.10	3.04
El input	1.66 kW	2.50 kW
Heat output	8.49 kW	7.59 kW

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



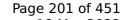


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

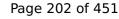
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
	•	

Domestic Hot Water (DHW)



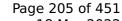
Average Climate

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 lead profile	XL	
Declared load profile	AL .	
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: NIMBUS FLEX 90 M NET

Configure model		
Model name	NIMBUS FLEX 90 M 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
7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

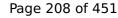
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



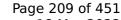


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

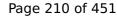
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

This information has general	_ · · · , · · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
	·	

Domestic Hot Water (DHW)



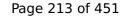
Average Climate

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	

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 M - 300 NET

Configure model		
Model name	NIMBUS FLEX 90 M - 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

5.10

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	

3.04

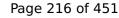
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	63 dB(A)	63 dB(A)		

EN 14825				
	Low temperature	Medium temperature		
Pdesignh	10.61 kW	9.39 kW		
η_{s}	189 %	129 %		
Prated	10.61 kW	9.39 kW		
SCOP	4.80	3.30		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	9.38 kW	8.31 kW		
COP Tj = -7°C	3.29	2.32		
Pdh Tj = +2°C	5.71 kW	5.33 kW		
COP Tj = +2°C	4.67	3.33		
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW		
COP Tj = +7°C	6.01	3.80		
Pdh Tj = 12°C	4.44 kW	4.02 kW		
COP Tj = 12°C	8.76	5.81		



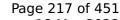


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

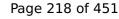
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

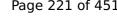
Average Climate

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





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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 M

Configure model		
Model name	ARIANEXT COMPACT 90 M	
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

5.10

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81

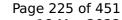


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This information was generated by the HF KETMAKK database on 16 Mai 202			
Pdh Tj = Tbiv	9.38 kW	8.31 kW	
COP Tj = Tbiv	3.29	2.32	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	20 W	20 W	
РТО	20 W	20 W	
PSB	20 W	20 W	
PCK	20 W	20 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	1.47 kW	0.07 kW	
Annual energy consumption Qhe	4561 kWh	5878 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 M

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

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

Heating

Heat output

El input

COP

1.66 kW

5.10

Low temperature	Medium temperature
8.49 kW	7.59 kW

2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



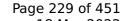
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This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 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 M - 300

Configure model	
Model name	ARIANEXT FLEX 90 M - 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		
		Medium temperature
Heat output	8.49 kW	7.59 kW
El input 1.66 kW 2.50 kW		
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



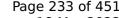
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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Domestic Hot Water (DHW)

Average Climate





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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: ENERGION M PLUS 9

Configure model	
Model name	ENERGION M PLUS 9
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply 1x230V 50Hz		

EN 14511-2

Heating

Low temperature	Medium temperature
8.49 kW	7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



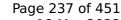


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

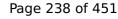
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

The internation was genera		
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
1		



Model: ENERGION M PLUS 9 T

Configure model		
Model name	ENERGION M PLUS 9 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		

FN 14511-2

Heating

5.10

COP

EN 14311-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	

3.04

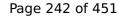
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η _s	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
$COP Tj = +2^{\circ}C$	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



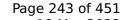


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

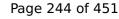
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

This information was genera		
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COPTj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
t-	·	



Model: ENERGION M LIGHT 9

Configure model		
Model name	ENERGION M LIGHT 9	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

Heating

Low temperature	Medium temperature
8.49 kW	7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



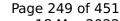


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ENERGION M LIGHT 9 T

Configure model			
Model name	ENERGION M LIGHT 9 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	

EN 14511-2

Heating

Medium temperature	
7.59 kW	

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

Low temperature

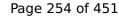
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



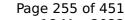


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

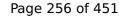
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	63 dB(A)	63 dB(A)		

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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	ted by the fit RETINA	tik database on 10 mai 2022
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ENERGION M FLEX 9 180 e

Configure model		
Model name	ENERGION M FLEX 9 180 e	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

ΕN	14511-2	

	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

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	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



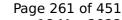


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

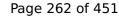
EN 12102-1Low temperatureMedium temperatureSound power level indoor15 dB(A)15 dB(A)Sound power level outdoor63 dB(A)63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



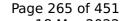
Average Climate

EN 16147		
Declared load profile	XL	
	106 %	
Efficiency ηDHW		
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	

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: ENERGION M FLEX 9 T 180 e

Configure model		
Model name	ENERGION M FLEX 9 T 180 e	
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	

	Low temperature	Medium temperature		
Heat output	8.49 kW	7.59 kW		
El input	1.66 kW	2.50 kW		
СОР	5.10	3.04		

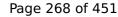
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



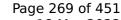


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

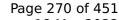
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



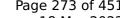
Average Climate

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	

Colder Climate





$$\operatorname{\textit{Page}}\xspace$ 273 of 451 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 l



Model: ENERGION M FLEX 9 300 e

Configure model		
Model name	ENERGION M FLEX 9 300 e	
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	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

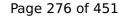
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



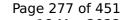


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

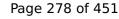
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η _s	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

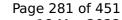
Average Climate

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: ENERGION M FLEX 9 T 300 e

Configure model		
Model name	ENERGION M FLEX 9 T 300 e	
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		

Heating

EN	14511	-2	

	Low temperature	temperature Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

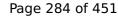
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



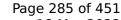


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W



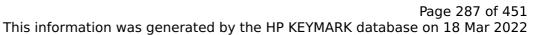


PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	15.17 kW	13.91 kW	
η_{s}	152 %	109 %	
Prated	15.17 kW	13.91 kW	
SCOP	3.88	2.81	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	9.18 kW	8.42 kW	





COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



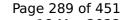
Average Climate

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	

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 l	

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: ENERGION M COMPACT 9

Configure model		
Model name	ENERGION M COMPACT 9	
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

7.59 kW Heat output 8.49 kW 1.66 kW 2.50 kW El input COP 5.10 3.04

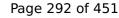
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



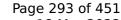


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
n _s	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Гріг	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



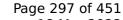
Average Climate

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	

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: ENERGION M COMPACT 9 T

Configure model		
Model name ENERGION M COMPACT 9 T		
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 :	145	1:	1-2
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	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



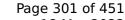


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825			
		Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825				
Low temperature Medium tempera				
Pdesignh	15.17 kW	13.91 kW		
η_{s}	152 %	109 %		
Prated	15.17 kW	13.91 kW		
SCOP	3.88	2.81		
Tbiv	-7 °C	-7 °C		
TOL	-20 °C	-20 °C		
Pdh Tj = -7°C	9.18 kW	8.42 kW		



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

COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



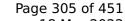
Average Climate

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 %	
COP	2.70	
Heating up time	01:16 h:min	
	39.0 W	
Standby power input		
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: ENERGION M HYBRIDall 9

Configure model		
Model name	ENERGION M HYBRIDall 9	
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	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	

3.04

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	

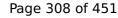
Average Climate

5.10



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	10.61 kW	9.39 kW	
η_{s}	189 %	129 %	
Prated	10.61 kW	9.39 kW	
SCOP	4.80	3.30	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7° C	9.38 kW	8.31 kW	
$COPTj = -7^{\circ}C$	3.29	2.32	
Pdh Tj = $+2$ °C	5.71 kW	5.33 kW	
COP Tj = +2°C	4.67	3.33	
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW	
$COP Tj = +7^{\circ}C$	6.01	3.80	
Pdh Tj = 12°C	4.44 kW	4.02 kW	
COP Tj = 12°C	8.76	5.81	



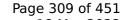


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

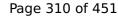
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	15.17 kW	13.91 kW	
η_{s}	152 %	109 %	
Prated	15.17 kW	13.91 kW	
SCOP	3.88	2.81	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	9.18 kW	8.42 kW	



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
COP Tj = +7°C	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.06 kW	11.11 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ENERGION M HYBRIDall 9 T

Configure model		
Model name	ENERGION M HYBRIDall 9 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 14511-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

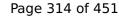
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



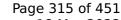


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

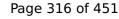
EN 12102-1Low temperatureMedium temperatureSound power level indoor15 dB(A)15 dB(A)Sound power level outdoor63 dB(A)63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
COP Tj = +2°C	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77	
Pdh Tj = +2°C	5.61 kW	5.12 kW	
COP Tj = +2°C	5.17	3.67	
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW	
$COP Tj = +7^{\circ}C$	6.75	5.12	
Pdh Tj = 12°C	4.43 kW	4.30 kW	
COP Tj = 12°C	8.92	6.96	
Pdh Tj = Tbiv	9.18 kW	8.42 kW	
COP Tj = Tbiv	3.67	2.77	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	20 W	20 W	
РТО	20 W	20 W	
PSB	20 W	20 W	
PCK	20 W	20 W	
Supplementary Heater: Type of energy input	Gas	Gas	
Supplementary Heater: PSUP	8.06 kW	11.11 kW	
Annual energy consumption Qhe	9625 kWh	12191 kWh	



Model: ATAG p ENERGION M HYBRIDzone 9

Configure model		
Model name	ATAG p ENERGION M HYBRIDzone 9	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

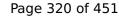
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



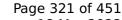


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

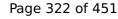
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	15.17 kW	13.91 kW	
η_{s}	152 %	109 %	
Prated	15.17 kW	13.91 kW	
SCOP	3.88	2.81	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	9.18 kW	8.42 kW	



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COPTj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.06 kW	11.11 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ATAG p ENERGION M HYBRIDzone 9 T

Configure model		
Model name	ATAG p ENERGION M HYBRIDzone 9 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	

EN 14511-2

Heating

Heat output

El input

COP

1.66 kW

5.10

EN 14311 2	
Low temperature	Medium temperature
8.49 kW	7.59 kW

2.50 kW

3.04

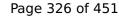
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = $+2$ °C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



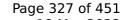


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

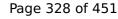
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 148	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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This information was general	.ca by the fit RETMAI	ik dalabase on 18 Mar 202.
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.06 kW	11.11 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ATAG i ENERGION M HYBRIDzone 9

Configure model		
Model name	ATAG i ENERGION M HYBRIDzone 9	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

EN 14511-2

Heating

-	
Low temperature	Medium temperature
8.49 kW	7.59 kW

Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

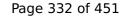
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	10.61 kW	9.39 kW	
η_{S}	189 %	129 %	
Prated	10.61 kW	9.39 kW	
SCOP	4.80	3.30	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	9.38 kW	8.31 kW	
COP Tj = -7°C	3.29	2.32	
Pdh Tj = $+2^{\circ}$ C	5.71 kW	5.33 kW	
COP Tj = +2°C	4.67	3.33	
Pdh Tj = +7°C	3.67 kW	3.48 kW	
COP Tj = +7°C	6.01	3.80	
Pdh Tj = 12°C	4.44 kW	4.02 kW	
COP Tj = 12°C	8.76	5.81	
	,	•	



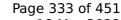


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	15.17 kW	13.91 kW	
η_{s}	152 %	109 %	
Prated	15.17 kW	13.91 kW	
SCOP	3.88	2.81	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	9.18 kW	8.42 kW	



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This information was genera	ted by the HE KLIMAI	N database on 10 Mai 202.
$COPTj = -7^{\circ}C$	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
COP Tj = +7°C	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	8.06 kW	11.11 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ATAG i ENERGION M HYBRIDzone 9 T

Configure model		
Model name	ATAG i ENERGION M HYBRIDzone 9 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

	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

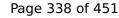
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	10.61 kW	9.39 kW	
η_{s}	189 %	129 %	
Prated	10.61 kW	9.39 kW	
SCOP	4.80	3.30	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	9.38 kW	8.31 kW	
COP Tj = -7°C	3.29	2.32	
Pdh Tj = +2°C	5.71 kW	5.33 kW	
$COP Tj = +2^{\circ}C$	4.67	3.33	
Pdh Tj = +7°C	3.67 kW	3.48 kW	
COP Tj = +7°C	6.01	3.80	
Pdh Tj = 12°C	4.44 kW	4.02 kW	
COP Tj = 12°C	8.76	5.81	



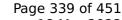


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

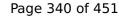
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

Low temperature	Medium temperature
15.17 kW	13.91 kW
152 %	109 %
15.17 kW	13.91 kW
3.88	2.81
-7 °C	-7 °C
-20 °C	-20 °C
9.18 kW	8.42 kW
	15.17 kW 152 % 15.17 kW 3.88 -7 °C



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This information was generated by the HP RETMARK database on 18 Mar 2022			
COP Tj = -7°C	3.67	2.77	
Pdh Tj = +2°C	5.61 kW	5.12 kW	
COP Tj = +2°C	5.17	3.67	
Pdh Tj = +7°C	3.68 kW	3.75 kW	
$COP Tj = +7^{\circ}C$	6.75	5.12	
Pdh Tj = 12°C	4.43 kW	4.30 kW	
COP Tj = 12°C	8.92	6.96	
Pdh Tj = Tbiv	9.18 kW	8.42 kW	
COP Tj = Tbiv	3.67	2.77	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	20 W	20 W	
РТО	20 W	20 W	
PSB	20 W	20 W	
PCK	20 W	20 W	
Supplementary Heater: Type of energy input	Gas	Gas	
Supplementary Heater: PSUP	8.06 kW	11.11 kW	
Annual energy consumption Qhe	9625 kWh	12191 kWh	



Model: NIMBUS M HYBRID 9 NET

Configure model		
Model name	NIMBUS M HYBRID 9 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	

EN 14511-2

Heating

Heat output

El input

COP

1.66 kW

5.10

Medium temperature
7.59 kW

2.50 kW

3.04

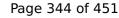
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = $+2$ °C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



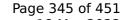


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

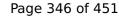
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825			
Low temperature Medium temperature			





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	63 dB(A)	63 dB(A)		

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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This information was general	ted by the Hi KETMAI	tit database on 10 mai 2022
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: NIMBUS M HYBRID 9 T NET

Configure model		
Model name	NIMBUS M HYBRID 9 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

Low temperature

Heating

	Medium	temperature

7.59 kW Heat output 8.49 kW 1.66 kW 2.50 kW El input COP 5.10 3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



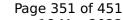


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

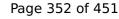
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
COP Tj = +7°C	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: NIMBUS M HYBRID FLEX 9 NET

Configure model		
Model name	NIMBUS M HYBRID FLEX 9 NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



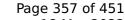


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
COP Tj = +2°C	3.90	2.33
Pdh Tj = +7°C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W



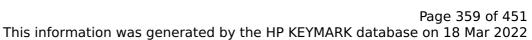


PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = $+2$ °C	5.61 kW	5.12 kW
$COP Tj = +2^{\circ}C$	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



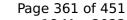
Average Climate

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 M HYBRID FLEX 9 T NET

Configure model		
Model name	NIMBUS M HYBRID FLEX 9 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	

EN 14511-2

Heating

5.10

COP

	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = $+2$ °C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



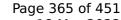


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



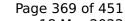
Average Climate

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 I	



Model: NIMBUS M HYBRID UNIVERSAL 9 NET

Configure model		
Model name	NIMBUS M HYBRID UNIVERSAL 9 NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
COP	5.10	3.04	

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



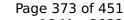


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

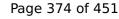
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_s	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	e Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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	*	
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: NIMBUS M HYBRID UNIVERSAL 9 T NET

Configure model		
Model name	NIMBUS M HYBRID UNIVERSAL 9 T NET	
Application Heating (medium temp)		
Jnits 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		Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

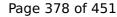
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



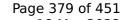


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
COP Tj = +7°C	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT M HYBRID 9 LINK

Configure model		
Model name	ARIANEXT M HYBRID 9 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		

EN 14511-2

Heating

Heat output

El input

COP

1.66 kW

5.10

Low temperature	Medium temperature
8.49 kW	7.59 kW

2.50 kW

3.04

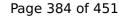
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



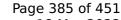


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

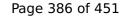
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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This information was genera	ted by the HE KLIMAI	N database on 10 Mai 202
$COP Tj = -7^{\circ}C$	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT M HYBRID 9 T LINK

Configure model		
Model name	ARIANEXT M HYBRID 9 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		

EN 14511-2

Heating

5.10

COP

	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



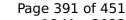


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COP Tj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT M HYBRID FLEX 9 LINK

Configure model	
Model name	ARIANEXT M HYBRID FLEX 9 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

5.10

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	

3.04

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	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
$COP Tj = -7^{\circ}C$	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



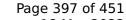


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1Low temperatureMedium temperatureSound power level indoor15 dB(A)15 dB(A)Sound power level outdoor63 dB(A)63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.65 kW	6.26 kW
COP Tj = +2°C	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	15.17 kW	13.91 kW	
η_{s}	152 %	109 %	
Prated	15.17 kW	13.91 kW	
SCOP	3.88	2.81	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	9.18 kW	8.42 kW	





$COP Tj = -7^{\circ}C$	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)

Average Climate

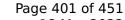
This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	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	

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 M HYBRID FLEX 9 T LINK

Configure model		
Model name	ARIANEXT M HYBRID FLEX 9 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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

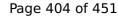
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



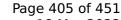


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W



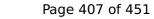


PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW





COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh

Domestic Hot Water (DHW)



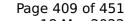
Average Climate

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	

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 M HYBRID UNIVERSAL 9 LINK

Configure model		
Model name ARIANEXT M HYBRID UNIVERSAL 9 LINK		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

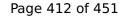
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



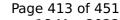


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

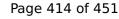
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COPTj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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

COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh
	•	



Model: AEROTOP HYBRID MINI EVO 9

Configure model		
Model name	AEROTOP HYBRID MINI EVO 9	
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	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

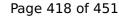
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = $+2$ °C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



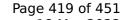


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

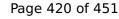
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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This information was general	ted by the Hi KETMAI	tit database on 10 mai 2022
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: AEROTOP HYBRID UNIVERSAL 9

Configure model		
Model name AEROTOP HYBRID UNIVERSAL 9		
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	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

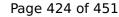
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor 63 dB(A) 63 dB(A)			

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



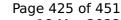


Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	6.65 kW	6.26 kW
$COPTj = +2^{\circ}C$	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
$COP Tj = +7^{\circ}C$	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W





PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	15.17 kW	13.91 kW
η_{s}	152 %	109 %
Prated	15.17 kW	13.91 kW
SCOP	3.88	2.81
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.18 kW	8.42 kW



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This information was general	ted by the Hi KETMAI	tit database on 10 mai 2022
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = $+7^{\circ}$ C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: ARIANEXT M HYBRID UNIVERSAL 9 T LINK

Configure model		
Model name ARIANEXT M HYBRID UNIVERSAL 9 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

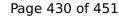
EN 14511-2			
Low temperature Medium temperature			
Heat output	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

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	15 dB(A)	15 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{S}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7 °C	9.38 kW	8.31 kW
$COP Tj = -7^{\circ}C$	3.29	2.32
Pdh Tj = $+2$ °C	5.71 kW	5.33 kW
$COP Tj = +2^{\circ}C$	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
$COP Tj = +7^{\circ}C$	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW

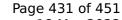




COP Tj = 12°C	8.76	5.81
Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.47 kW	0.07 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh

Warmer Climate

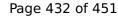
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 63 dB(A) 63 dB(A)





EN 14825

	Low temperature	Medium temperature
Pdesignh	6.65 kW	6.26 kW
η_{s}	234 %	153 %
Prated	6.65 kW	6.26 kW
SCOP	6.07	3.91
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.65 kW	6.26 kW
COP Tj = +2°C	3.90	2.33
Pdh Tj = $+7^{\circ}$ C	4.46 kW	4.18 kW
COP Tj = +7°C	5.44	3.31
Pdh Tj = 12°C	4.36 kW	4.12 kW
COP Tj = 12°C	8.45	5.73
Pdh Tj = Tbiv	6.65 kW	6.26 kW
COP Tj = Tbiv	3.90	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.65 kW	6.26 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.90	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W





РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1464 kWh	2142 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	63 dB(A)	63 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	15.17 kW	13.91 kW	
η_{s}	152 %	109 %	
Prated	15.17 kW	13.91 kW	
SCOP	3.88	2.81	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	



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Pdh Tj = -7°C	9.18 kW	8.42 kW
COP Tj = -7°C	3.67	2.77
Pdh Tj = +2°C	5.61 kW	5.12 kW
COP Tj = +2°C	5.17	3.67
Pdh Tj = +7°C	3.68 kW	3.75 kW
$COP Tj = +7^{\circ}C$	6.75	5.12
Pdh Tj = 12°C	4.43 kW	4.30 kW
COP Tj = 12°C	8.92	6.96
Pdh Tj = Tbiv	9.18 kW	8.42 kW
COP Tj = Tbiv	3.67	2.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.31 kW	2.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	0.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	9625 kWh	12191 kWh



Model: NIMBUS M FLEX IN 9 NET

Configure model		
Model name	NIMBUS M FLEX IN 9 NET	
Application	Heating (medium 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	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.50 kW	0.10 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh



Model: NIMBUS M FLEX IN 9 T NET

Configure model		
Model name	NIMBUS M FLEX IN 9 T NET	
Application	Heating (medium 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	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.50 kW	0.10 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh



Model: ARIANEXT M FLEX IN 9 LINK

Configure model		
Model name	ARIANEXT M FLEX IN 9 LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

COP

5.10

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW

3.04

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	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.50 kW	0.10 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh



Model: ARIANEXT M FLEX IN 9 T LINK

Configure model		
Model name	ARIANEXT M FLEX IN 9 T LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply		

Heating

EN	14511-2	

	Low temperature	Medium temperature
Heat output	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	9.38 kW	8.31 kW
$COP Tj = -7^{\circ}C$	3.29	2.32
Pdh Tj = $+2$ °C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = $+7^{\circ}$ C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.50 kW	0.10 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh



Model: AEROTOP MONO BUILT-IN 09M-CRX

Configure model	
Model name	AEROTOP MONO BUILT-IN 09M-CRX
Application	Heating (medium 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	8.49 kW	7.59 kW
El input	1.66 kW	2.50 kW
СОР	5.10	3.04

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	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η _s	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.38 kW	8.31 kW
COP Tj = -7°C	3.29	2.32
Pdh Tj = +2°C	5.71 kW	5.33 kW
$COP Tj = +2^{\circ}C$	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.50 kW	0.10 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh



Model: AEROTOP MONO BUILT-IN 09M-CR

Configure model			
Model name	AEROTOP MONO BUILT-IN 09M-CR		
Application	Heating (medium 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	8.49 kW	7.59 kW	
El input	1.66 kW	2.50 kW	
СОР	5.10	3.04	

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	0 dB(A)	0 dB(A)
Sound power level outdoor	63 dB(A)	63 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	10.61 kW	9.39 kW
η_{s}	189 %	129 %
Prated	10.61 kW	9.39 kW
SCOP	4.80	3.30
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
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Pdh Tj = +2°C	5.71 kW	5.33 kW
COP Tj = +2°C	4.67	3.33
Pdh Tj = +7°C	3.67 kW	3.48 kW
COP Tj = +7°C	6.01	3.80
Pdh Tj = 12°C	4.44 kW	4.02 kW
COP Tj = 12°C	8.76	5.81



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Pdh Tj = Tbiv	9.38 kW	8.31 kW
COP Tj = Tbiv	3.29	2.32
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.14 kW	9.32 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.68
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WTOL	60 °C	60 °C
Poff	20 W	20 W
РТО	20 W	20 W
PSB	20 W	20 W
PCK	20 W	20 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	1.50 kW	0.10 kW
Annual energy consumption Qhe	4561 kWh	5878 kWh