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Login

Summary of	NIMBUS 70 M-T - ARIANEXT 70 M-T - AEROTOP MONO 07 - ENERGION M 7T	Reg. No.	ICIM-PDC- 000001	
Certificate Holder	-			
Name	me 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 70 M-T - ARIANEXT 70 M-T - AEROTOP MONO 07 - ENERGION M 7T			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410A			
Mass of Refrigerant	2.77 kg			
Certification Date	19.12.2017			

Model: AEROTOP MONO 07M 1Z

Configure model			
Model name	AEROTOP MONO 07M 1Z		
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	6.40 kW	5.70 kW		
El input	1.28 kW	2.04 kW		
СОР	5.00	2.80		

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	61 dB(A)	61 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	7.89 kW	7.45 kW	
η_{s}	178 %	128 %	
Prated	7.89 kW	7.45 kW	
SCOP	4.53	3.27	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	6.98 kW	6.59 kW	
COP Tj = -7°C	3.10	2.17	
Pdh Tj = +2°C	4.31 kW	4.18 kW	
COP Tj = +2°C	4.59	3.30	
Pdh Tj = +7°C	2.76 kW	2.58 kW	
COP Tj = +7°C	5.30	3.87	
Pdh Tj = 12°C	2.60 kW	2.54 kW	
COP Tj = 12°C	6.87	5.40	



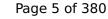


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	61 dB(A)	61 dB(A)		

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



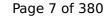


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





Time innermation was general		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh



Model: AEROTOP MONO 07M 2Z

Configure model		
Model name	AEROTOP MONO 07M 2Z	
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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	

2.80

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

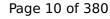
Average Climate

5.00



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



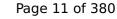


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

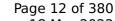
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





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Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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CORT: 700		
$COP Tj = -7^{\circ}C$	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh



Model: AEROTOP MONO 07M-R 1Z

Configure model		
Model name	AEROTOP MONO 07M-R 1Z	
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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

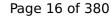
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



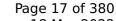


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

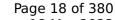
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825
Low temperature Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		



Model: AEROTOP MONO 07M-R 2Z

Configure model		
Model name AEROTOP MONO 07M-R 2Z		
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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	

2.80

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

5.00



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
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Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
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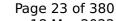


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





This information was generated by the HP KETMARK database on 18 Mar 2022			
COP Tj = -7°C	3.42	2.62	
Pdh Tj = +2°C	4.48 kW	4.13 kW	
COP Tj = +2°C	5.36	3.95	
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW	
$COP Tj = +7^{\circ}C$	6.56	5.13	
Pdh Tj = 12°C	2.72 kW	2.68 kW	
COP Tj = 12°C	7.43	6.26	
Pdh Tj = Tbiv	7.17 kW	6.70 kW	
COP Tj = Tbiv	3.42	2.62	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
РТО	13 W	13 W	
PSB	13 W	13 W	
PCK	13 W	13 W	
Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	4.00 kW	4.00 kW	
Annual energy consumption Qhe	7544 kWh	9000 kWh	



Model: AEROTOP MONO 07M-RL

Configure model		
Model name	AEROTOP MONO 07M-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	

Heating

COP

5.00

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	





Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

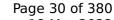
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if $TOL < Tdesignh$	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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	<u> </u>	
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COPTj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	÷	



Model: ARIANEXT LITE 70 M-T LINK

Configure model		
Model name	ARIANEXT LITE 70 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

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

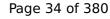
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



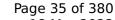


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

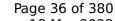
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Thirtic ducasase on 10 Mai 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
Low temperature	Medium temperature	
11.85 kW	11.06 kW	
152 %	118 %	
11.85 kW	11.06 kW	
3.87	3.03	
-7 °C	-7 °C	
-20 °C	-20 °C	
7.17 kW	6.70 kW	
•	Low temperature 11.85 kW 152 % 11.85 kW 3.87 -7 °C -20 °C	



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

ins mornation was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		



Model: ARIANEXT LITE 70 M-T

Configure model		
Model name	ARIANEXT LITE 70 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 14511-2				
Low temperature Medium temperature				
Heat output	6.40 kW	5.70 kW		
El input	1.28 kW	2.04 kW		
СОР	5.00	2.80		

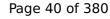
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



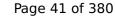


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

CORT: 700		
$COP Tj = -7^{\circ}C$	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh



Model: ARIANEXT PLUS 70 M-T 2Z H LINK

Configure model		
Model name	ARIANEXT PLUS 70 M-T 2Z H 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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

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

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



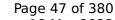


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





		T T T T T T T T T T T T T T T T T T T
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh



Model: ARIANEXT PLUS 70 M-T 2Z H

Configure model	
Model name	ARIANEXT PLUS 70 M-T 2Z H
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

5.00

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

EN 14511-2

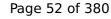
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



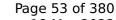


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

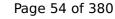
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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ins mornation was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		

Model: ARIANEXT PLUS 70 M-T 2Z LINK

Configure model		
Model name	ARIANEXT PLUS 70 M-T 2Z 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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

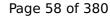
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



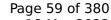


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

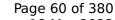
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	•	

Model: ARIANEXT PLUS 70 M-T 2Z

Configure model		
Model name	ARIANEXT PLUS 70 M-T 2Z	
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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	

2.80

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

5.00



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



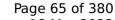


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

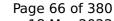
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
Low temperature		Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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CORT: 700		
$COP Tj = -7^{\circ}C$	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh



Model: ARIANEXT PLUS 70 M-T H LINK

Configure model		
Model name	ARIANEXT PLUS 70 M-T H 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

Low temperature

Heating

Medium temperature
E 70 IAM

Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



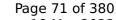


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

ins mornation was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		



Model: ARIANEXT PLUS 70 M-T H

Configure model		
Model name	ARIANEXT PLUS 70 M-T H	
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
6.40 kW	5.70 kW

Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



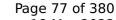


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

This information was general	,	
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	·	



Model: ARIANEXT PLUS 70 M-T LINK

Configure model		
Model name	ARIANEXT PLUS 70 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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

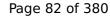
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



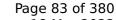


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





		With database on 10 Mar 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7$ °C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
Low temperature Medium ter			
Pdesignh	11.85 kW	11.06 kW	
η_{s}	152 %	118 %	
Prated	11.85 kW	11.06 kW	
SCOP	3.87	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.17 kW	6.70 kW	



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

ins mornation was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		



Model: ARIANEXT PLUS 70 M-T

Configure model		
Model name	ARIANEXT PLUS 70 M-T	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	ate 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
	5.70 kW

	Low temperature	medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

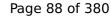
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



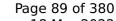


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

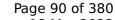
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





This information was gener	<u> </u>	11 11 11 11 11 11 11 11 11 11 11 11 11
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	11.85 kW	11.06 kW	
η_{s}	152 %	118 %	
Prated	11.85 kW	11.06 kW	
SCOP	3.87	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.17 kW	6.70 kW	



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

3.42	
	2.62
4.48 kW	4.13 kW
5.36	3.95
2.90 kW	2.76 kW
6.56	5.13
2.72 kW	2.68 kW
7.43	6.26
7.17 kW	6.70 kW
3.42	2.62
5.51 kW	4.90 kW
2.22	1.51
0.90	0.90
60 °C	60 °C
13 W	13 W
Electricity	Electricity
4.00 kW	4.00 kW
7544 kWh	9000 kWh
	5.36 2.90 kW 6.56 2.72 kW 7.43 7.17 kW 3.42 5.51 kW 2.22 0.90 60 °C 13 W 13 W 13 W 13 W Electricity 4.00 kW



Model: NIMBUS PLUS 70 M-T 2Z H NET

Configure model		
Model name	NIMBUS PLUS 70 M-T 2Z H 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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

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

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



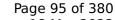


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

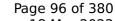
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

ins institution was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
t-	·	



Model: NIMBUS PLUS 70 M-T 2Z NET

Configure model		
Model name	NIMBUS PLUS 70 M-T 2Z 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

5.00

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

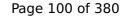
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



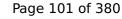


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

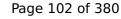
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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ins mornation was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		



Model: NIMBUS PLUS 70 M-T H NET

Configure model		
Model name	NIMBUS PLUS 70 M-T H NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

EN 14511-2

Heating

Medium temperatu

	Low temperature	medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



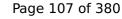


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

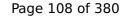
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

ins institution has genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
E		



Model: NIMBUS PLUS 70 M-T NET

Configure model		
Model name	NIMBUS PLUS 70 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

5.70 kW Heat output 6.40 kW 1.28 kW 2.04 kW El input COP 5.00 2.80

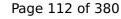
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



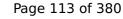


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

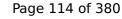
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

ins mornation was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		

Model: NIMBUS POCKET 70 M-T NET

Configure model		
Model name	NIMBUS POCKET 70 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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

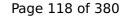
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



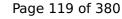


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

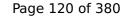
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

This information was general	<u> </u>	
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	·	



Model: AEROTOP MONO 07M-CR 1Z

Configure model		
Model name	AEROTOP MONO 07M-CR 1Z	
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

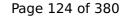
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



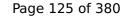


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

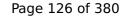
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



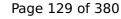
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Model: AEROTOP MONO 07M-CR 2Z

Configure model		
Model name	AEROTOP MONO 07M-CR 2Z	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

Heating

COP

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	

2.80

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

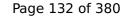
Average Climate

5.00



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	61 dB(A)	61 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	7.89 kW	7.45 kW	
η_{s}	178 %	128 %	
Prated	7.89 kW	7.45 kW	
SCOP	4.53	3.27	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	6.98 kW	6.59 kW	
COP Tj = -7°C	3.10	2.17	
Pdh Tj = +2°C	4.31 kW	4.18 kW	
COP Tj = +2°C	4.59	3.30	
Pdh Tj = +7°C	2.76 kW	2.58 kW	
COP Tj = +7°C	5.30	3.87	
Pdh Tj = 12°C	2.60 kW	2.54 kW	
COP Tj = 12°C	6.87	5.40	



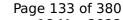


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

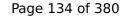
EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	61 dB(A)	61 dB(A)		

EN 1482	25	
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



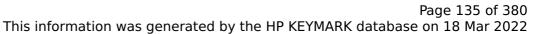


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	43 dB(A)	43 dB(A)		
Sound power level outdoor	61 dB(A)	61 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	11.85 kW	11.06 kW	
η_{s}	152 %	118 %	
Prated	11.85 kW	11.06 kW	
SCOP	3.87	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.17 kW	6.70 kW	





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



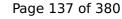
Average Climate

EN 16147		
Declared load profile	XL	
Deciared load profile	AL .	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: ARIANEXT COMPACT 70 M-T 2Z LINK

Configure model			
Model name ARIANEXT COMPACT 70 M-T 2Z 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		Medium temperature	
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

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

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



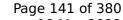


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

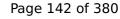
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





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

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





	· · · · · · · · · · · · · · · · · · ·	
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	•	

Domestic Hot Water (DHW)

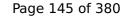
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: ARIANEXT COMPACT 70 M-T LINK

Configure model		
Model name	ARIANEXT COMPACT 70 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	6.40 kW	5.70 kW		
El input	1.28 kW	2.04 kW		
СОР	5.00	2.80		

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



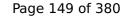


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

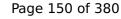
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
Low temperature	Medium temperature	
11.85 kW	11.06 kW	
152 %	118 %	
11.85 kW	11.06 kW	
3.87	3.03	
-7 °C	-7 °C	
-20 °C	-20 °C	
7.17 kW	6.70 kW	
	Low temperature 11.85 kW 152 % 11.85 kW 3.87 -7 °C -20 °C	



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

This information was general	,	
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	·	

Domestic Hot Water (DHW)



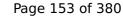
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	
INITIAL WATER AT 40 C	2401	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	



Model: ARIANEXT FLEX 70 M-T 2Z H LINK

Configure model		
Model name	ARIANEXT FLEX 70 M-T 2Z H 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

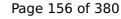
EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



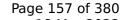


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

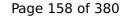
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



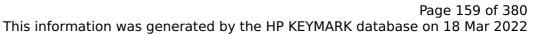


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
Low temperature Medium temperature			
Pdesignh	11.85 kW	11.06 kW	
η_{s}	152 %	118 %	
Prated	11.85 kW	11.06 kW	
SCOP	3.87	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.17 kW	6.70 kW	





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



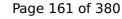
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: ARIANEXT FLEX 70 M-T 2Z LINK

Configure model		
Model name	ARIANEXT FLEX 70 M-T 2Z 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



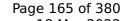


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 1482	25	
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

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Domestic Hot Water (DHW)



Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 l	



Model: ARIANEXT FLEX 70 M-T H LINK

Configure model		
Model name ARIANEXT FLEX 70 M-T H LINK		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

Heating

COP

EN 14511-2			
Low temperature		Medium temperature	
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	

2.80

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	

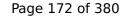
Average Climate

5.00



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2^{\circ}$ C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
		1



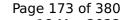


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

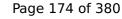
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



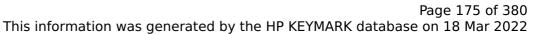


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
Low temperature Medium temper			
Pdesignh	11.85 kW	11.06 kW	
η_{s}	152 %	118 %	
Prated	11.85 kW	11.06 kW	
SCOP	3.87	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.17 kW	6.70 kW	





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COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	•	

Domestic Hot Water (DHW)



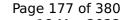
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: ARIANEXT FLEX 70 M-T LINK

Configure model		
Model name	ARIANEXT FLEX 70 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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

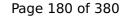
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825				
	Low temperature	Medium temperature		
Pdesignh	7.89 kW	7.45 kW		
η_{s}	178 %	128 %		
Prated	7.89 kW	7.45 kW		
SCOP	4.53	3.27		
Tbiv	-7 °C	-7 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7° C	6.98 kW	6.59 kW		
$COP Tj = -7^{\circ}C$	3.10	2.17		
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW		
COP Tj = +2°C	4.59	3.30		
Pdh Tj = +7°C	2.76 kW	2.58 kW		
COP Tj = +7°C	5.30	3.87		
Pdh Tj = 12°C	2.60 kW	2.54 kW		
COP Tj = 12°C	6.87	5.40		
	,			



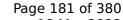


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

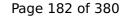
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



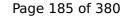
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
СОР	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	118 %
СОР	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	93 %
СОР	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246



Model: NIMBUS COMPACT 70 M-T 2Z NET

Configure model		
Model name	NIMBUS COMPACT 70 M-T 2Z 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

Medium temperature

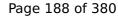
	Low temperature	medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



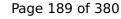


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

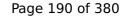
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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	CEN heat pump
13	KEYMARK

COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



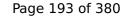
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	118 %
СОР	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	93 %
СОР	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246



Model: NIMBUS COMPACT 70 M-T NET

Configure model	
Model name	NIMBUS COMPACT 70 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 temperatu		Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



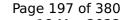


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



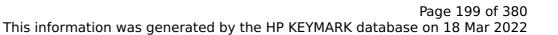


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
Low temperature	Medium temperature	
11.85 kW	11.06 kW	
152 %	118 %	
11.85 kW	11.06 kW	
3.87	3.03	
-7 °C	-7 °C	
-20 °C	-20 °C	
7.17 kW	6.70 kW	
	Low temperature 11.85 kW 152 % 11.85 kW 3.87 -7 °C -20 °C	





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 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	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: NIMBUS FLEX 70 M-T 2Z H NET

Configure model		
Model name	NIMBUS FLEX 70 M-T 2Z H 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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

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

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = $+7^{\circ}$ C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	·	1



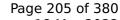


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
Low temperature	Medium temperature	
11.85 kW	11.06 kW	
152 %	118 %	
11.85 kW	11.06 kW	
3.87	3.03	
-7 °C	-7 °C	
-20 °C	-20 °C	
7.17 kW	6.70 kW	
	Low temperature 11.85 kW 152 % 11.85 kW 3.87 -7 °C -20 °C	





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



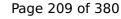
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Model: NIMBUS FLEX 70 M-T 2Z NET

Configure model		
Model name	NIMBUS FLEX 70 M-T 2Z 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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

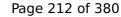
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



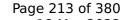


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Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

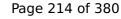
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



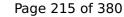


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	11.85 kW	11.06 kW	
η_{s}	152 %	118 %	
Prated	11.85 kW	11.06 kW	
SCOP	3.87	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.17 kW	6.70 kW	





This information was general		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)

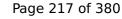
Average Climate

EN 16147			
Declared load profile	XL		
Efficiency ηDHW	108 %		
СОР	2.60		
Heating up time	01:22 h:min		
Standby power input	49.0 W		
Reference hot water temperature	53.1 °C		
Mixed water at 40°C	246 I		

Warmer Climate

EN 16147			
Declared load profile	XL		
Efficiency ηDHW	118 %		
СОР	2.84		
Heating up time	01:27 h:min		
Standby power input	44.0 W		
Reference hot water temperature	52.9 °C		
Mixed water at 40°C	246		

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Model: NIMBUS FLEX 70 M-T H NET

Configure model		
Model name	NIMBUS FLEX 70 M-T H 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

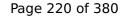
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = $+7^{\circ}$ C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
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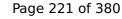


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

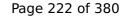
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



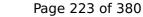


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW
	,	<u> </u>





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)

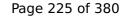
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: NIMBUS FLEX 70 M-T NET

Configure model		
Model name	NIMBUS FLEX 70 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

COP

5.00

EN 14311-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

FN 14511-2

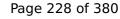
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



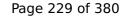


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

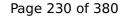
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



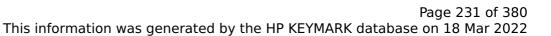


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{S}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW
	·	





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



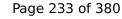
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	93 %
СОР	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246



Model: ARIANEXT COMPACT 70 M-T 2Z

Configure model		
Model name	ARIANEXT COMPACT 70 M-T 2Z	
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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

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

5.00



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



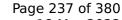
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Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:08 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	250 l	



Model: ARIANEXT COMPACT 70 M-T

Configure model		
Model name ARIANEXT COMPACT 70 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		

Heating

ΕN	14511-2	

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



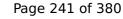
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This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147	
Declared load profile	L
Efficiency ηDHW	131 %
СОР	3.10
Heating up time	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	250 I

Model: ARIANEXT FLEX 70 M-T 2Z H

Configure model	
Model name	ARIANEXT FLEX 70 M-T 2Z H
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data		
Power supply	3x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = $+7^{\circ}$ C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
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This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147	
Declared load profile	L
Efficiency ηDHW	131 %
СОР	3.10
Heating up time	01:08 h:min
Standby power input	39.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	250 l



Model: ARIANEXT FLEX 70 M-T 2Z

Configure model		
Model name	ARIANEXT FLEX 70 M-T 2Z	
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
6.40 kW	5.70 kW

Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



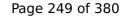
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This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:08 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	250 l	



Model: ARIANEXT FLEX 70 M-T H

Configure model		
Model name	ARIANEXT FLEX 70 M-T H	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

Heating

COP

5.00

EN 14311-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

FN 14511-2

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

Average Climate



EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	61 dB(A)	61 dB(A)		

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	7.89 kW	7.45 kW	
η_{s}	178 %	128 %	
Prated	7.89 kW	7.45 kW	
SCOP	4.53	3.27	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	6.98 kW	6.59 kW	
COP Tj = -7°C	3.10	2.17	
Pdh Tj = +2°C	4.31 kW	4.18 kW	
COP Tj = +2°C	4.59	3.30	
Pdh Tj = +7°C	2.76 kW	2.58 kW	
COP Tj = +7°C	5.30	3.87	
Pdh Tj = 12°C	2.60 kW	2.54 kW	
COP Tj = 12°C	6.87	5.40	



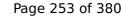
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Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:08 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	250 I	



Model: ARIANEXT FLEX 70 M-T

Configure model		
Model name	ARIANEXT FLEX 70 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
	6.40 kW	5.70 kW

Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



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

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:08 h:min	
Standby power input	39.0 W	
Reference hot water temperature	52.7 °C	
Mixed water at 40°C	250 l	



Model: ENERGION M PLUS 7 T 2Z

Configure model		
Model name	ENERGION M PLUS 7 T 2Z	
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
6.40 kW	5.70 kW

Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



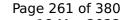


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

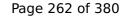
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W





PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825			
	Low temperature	ure Medium temperature	
Pdesignh	11.85 kW	11.06 kW	
η_{s}	152 %	118 %	
Prated	11.85 kW	11.06 kW	
SCOP	3.87	3.03	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	7.17 kW	6.70 kW	



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

COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COPTj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
	•	



Model: ENERGION M PLUS 7 T

Configure model		
Model name	ENERGION M PLUS 7 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



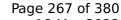


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

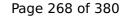
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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ins mornation was genera		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1		



Model: ENERGION M LIGHT 7 T

Configure model		
Model name	ENERGION M LIGHT 7 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
6.40 kW	5.70 kW

Heat output 6.40 kW 1.28 kW 2.04 kW El input COP 5.00 2.80

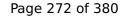
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



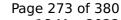


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

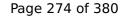
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



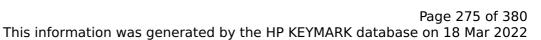


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
ηs	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





	2.62
8 1/1/1	
O RVV	4.13 kW
6	3.95
0 kW	2.76 kW
6	5.13
2 kW	2.68 kW
3	6.26
7 kW	6.70 kW
2	2.62
1 kW	4.90 kW
2	1.51
0	0.90
°C	60 °C
W	13 W
ctricity	Electricity
0 kW	4.00 kW
14 kWh	9000 kWh
	kW kW kW kW CC V V V tricity kW



Model: ENERGION M FLEX 7 T 180 e

Configure model		
Model name	ENERGION M FLEX 7 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		

EN 14511-2

Heating

Heat output

El input

COP

1.28 kW

5.00

Low temperature	Medium temperature
6.40 kW	5.70 kW

2.04 kW

2.80

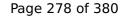
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



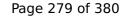


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

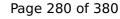
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W



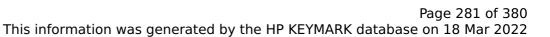


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





COP Tj = -7°C 3.42 2.62 Pdh Tj = +2°C 4.48 kW 4.13 kW COP Tj = +2°C 5.36 3.95 Pdh Tj = +7°C 2.90 kW 2.76 kW COP Tj = +7°C 6.56 5.13 Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW 4.90 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 4.00 kW 4.00 kW		1	
COP Tj = +2°C 5.36 3.95 Pdh Tj = +7°C 2.90 kW 2.76 kW COP Tj = +7°C 6.56 5.13 Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = -7°C	3.42	2.62
Pdh Tj = +7°C 2.90 kW 2.76 kW COP Tj = +7°C 6.56 5.13 Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +7°C	$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = $+7$ °C	2.90 kW	2.76 kW
COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW 4.90 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22 1.51 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W Supplementary Heater: Type of energy input Electricity Electricity	$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	7.43	6.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW 4.90 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22 1.51 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W PCK 13 W 13 W Electricity Electricity Electricity	Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.42	2.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
WTOL 60 °C 60 °C Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W PCK 13 W 13 W Electricity Electricity	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Poff 13 W 13 W PTO 13 W 13 W PSB 13 W 13 W PCK 13 W 13 W Supplementary Heater: Type of energy input Electricity Electricity	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
PTO 13 W 13 W PSB 13 W 13 W PCK 13 W 13 W Supplementary Heater: Type of energy input Electricity Electricity	WTOL	60 °C	60 °C
PSB 13 W 13 W PCK 13 W 13 W Supplementary Heater: Type of energy input Electricity Electricity	Poff	13 W	13 W
PCK 13 W 13 W Supplementary Heater: Type of energy input Electricity Electricity	РТО	13 W	13 W
Supplementary Heater: Type of energy input Electricity Electricity	PSB	13 W	13 W
	PCK	13 W	13 W
Supplementary Heater: PSUP 4.00 kW 4.00 kW	Supplementary Heater: Type of energy input	Electricity	Electricity
	Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe 7544 kWh 9000 kWh	Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



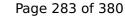
Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: ENERGION M FLEX 7 T 2Z 180 e

Configure model		
Model name	ENERGION M FLEX 7 T 2Z 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



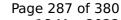


Pdh Tj = Tbiv 6.98 kW 6.59 kW COP Tj = Tbiv 3.10 2.17 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 2.73 kW 7.06 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.77 1.95 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W PSB 15 W 15 W PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.32 kW 0.39 kW Annual energy consumption Qhe 3598 kWh 4706 kWh		-	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.10	2.17
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
WTOL 60 °C 60 °C Foff 15 W 15 W 15 W PSB 15 W 15 W 15 W PCK 15 W 15 W 15 W 15 W 15 W 15 W On the second of the	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Poff 15 W 15 W PTO 15 W 15 W PSB 15 W 15 W PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.32 kW 0.39 kW	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
PTO 15 W 15 W PSB 15 W 15 W PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.32 kW 0.39 kW	WTOL	60 °C	60 °C
PSB 15 W 15 W PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.32 kW 0.39 kW	Poff	15 W	15 W
PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.32 kW 0.39 kW	РТО	15 W	15 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.32 kW 0.39 kW	PSB	15 W	15 W
Supplementary Heater: PSUP 0.32 kW 0.39 kW	PCK	15 W	15 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 3598 kWh 4706 kWh	Supplementary Heater: PSUP	0.32 kW	0.39 kW
	Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

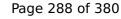
EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W



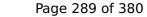


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
$COP Tj = +2^{\circ}C$	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



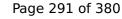
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
СОР	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 I

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	93 %
СОР	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246



Model: ENERGION M COMPACT 7 T

Configure model		
Model name	ENERGION M COMPACT 7 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 14511-2		
	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



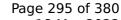


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

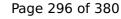
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature





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Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7$ °C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	118 %
СОР	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 I

Colder Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	93 %
СОР	2.25
Heating up time	01:22 h:min
Standby power input	54.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246

Model: ENERGION M COMPACT 7 T 2Z

Configure model		
Model name	ENERGION M COMPACT 7 T 2Z	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x230V 50Hz		

Heating

COP

5.00

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

EN 14511-2

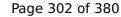
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



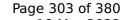


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 43 dB(A) 43 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





		and database on 10 Mar 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	15 W	15 W



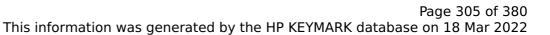


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW





COP Tj = -7°C 3.42 2.62 Pdh Tj = +2°C 4.48 kW 4.13 kW COP Tj = +2°C 5.36 3.95 Pdh Tj = +7°C 2.90 kW 2.76 kW COP Tj = +7°C 6.56 5.13 Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW 4.90 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22 1.51 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W PSB 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity			
COP Tj = +2°C 5.36 3.95 Pdh Tj = +7°C 2.90 kW 2.76 kW COP Tj = +7°C 6.56 5.13 Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = -7°C	3.42	2.62
Pdh Tj = +7°C 2.90 kW 2.76 kW COP Tj = +7°C 6.56 5.13 Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +7°C	COP Tj = +2°C	5.36	3.95
Pdh Tj = 12°C 2.72 kW 2.68 kW COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
COP Tj = 12°C 7.43 6.26 Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW 4.90 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22 1.51 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W PSB 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity	$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = Tbiv 7.17 kW 6.70 kW COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = Tbiv 3.42 2.62 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	7.43	6.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.51 kW 4.90 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.22 1.51 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W PSB 15 W 15 W PCK 15 W 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity	Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	3.42	2.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
WTOL 60 °C 60 °C Poff 15 W 15 W PTO 15 W 15 W PSB 15 W 15 W PCK 15 W 15 W Electricity Electricity	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Poff 15 W 15 W PTO 15 W 15 W PSB 15 W 15 W PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
PTO 15 W 15 W PSB 15 W 15 W PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity	WTOL	60 °C	60 °C
PSB 15 W 15 W PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity	Poff	15 W	15 W
PCK 15 W 15 W Supplementary Heater: Type of energy input Electricity Electricity	РТО	15 W	15 W
Supplementary Heater: Type of energy input Electricity Electricity	PSB	15 W	15 W
	PCK	15 W	15 W
	Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP 4.00 kW 4.00 kW	Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe 7544 kWh 9000 kWh	Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



Average Climate

EN 16147		
Deale and lead marking	XL	
Declared load profile	XL .	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 I	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	



Model: ENERGION M HYBRIDall 7 T

Configure model		
Model name	ENERGION M HYBRIDall 7 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
6.40 kW	5.70 kW
6.40 kW	5.70 kW

Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

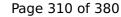
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



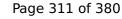


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

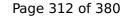
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



Page 313 of 380 This information was generated by the HP KEYMARK database on 18 Mar 2022

This information was genera	ted by the HE KLIMAI	N database on 10 Mai 202
$COPTj = -7^{\circ}C$	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh



Model: ATAG p ENERGION M HYBRIDzone 7 T

Configure model		
Model name ATAG p ENERGION M HYBRIDzone 7 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

5.00

El input

COP

Low temperature	Medium temperature	
6.40 kW	5.70 kW	
1.28 kW	2.04 kW	

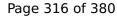
2.80

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	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



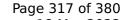


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

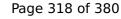
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		THE GOLDSON TO HAI 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 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	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COPTj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh



Model: ATAG i ENERGION M HYBRIDzone 7 T

Configure model		
Model name	ATAG i ENERGION M HYBRIDzone 7 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

temperature	Medium temperature
κW	5.70 kW

	Low temperature	medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

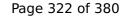
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



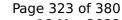


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

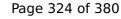
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





		int database on 10 Mar 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

The internation was general		
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
1	t .	



Model: NIMBUS M HYBRID UNIVERSAL 7 T NET

Configure model		
Model name	NIMBUS M HYBRID UNIVERSAL 7 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

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

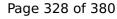
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



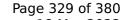


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

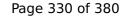
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





	-	Think ducabase on 10 Hair 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 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	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COPTj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh
E	·	



Model: NIMBUS M HYBRID 7 T NET

Configure model		
Model name	NIMBUS M HYBRID 7 T NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x230V 50Hz	

EN 14511-2

Heating

Heat output

El input

COP

1.28 kW

5.00

Low temperature	Medium temperature	
6.40 kW	5.70 kW	

2.04 kW

2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



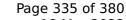


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

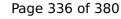
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
COP Tj = +7°C	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

	<u> </u>	
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COPTj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
РСК	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: NIMBUS M HYBRID FLEX 7 T NET

Configure model		
Model name	NIMBUS M HYBRID FLEX 7 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

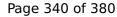
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



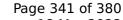


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

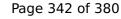
EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 14825		
	Low temperature	Medium temperature





		TIK database on 10 Mai 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W



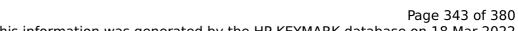


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



CEN heat pump KEYMARK		Page 343 of 380
This information was generated	ated by the HP KEYMA	RK database on 18 Mar 2022
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90

60 °C

13 W

13 W

13 W

13 W

Gas

4.00 kW

7544 kWh

60 °C

13 W

13 W

13 W

13 W

Gas

4.00 kW

9000 kWh

Domestic Hot Water (DHW)

Supplementary Heater: PSUP

Annual energy consumption Qhe

Supplementary Heater: Type of energy input

WTOL

Poff

PTO

PSB

PCK



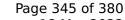
Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	108 %
СОР	2.60
Heating up time	01:22 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 I

Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	118 %
СОР	2.84
Heating up time	01:27 h:min
Standby power input	44.0 W
Reference hot water temperature	52.9 °C
Mixed water at 40°C	246 I

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246 l	



Model: ARIANEXT M HYBRID 7 T LINK

Configure model		
Model name	ARIANEXT M HYBRID 7 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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	

2.80

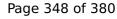
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

5.00

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40





Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = +7°C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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This information was generated by the HP KEYMARK database on 18 Mar 2022 COP Tj = -7° C 3.42 2.62

	J	
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: ARIANEXT M HYBRID FLEX 7 T LINK

Configure model		
Model name	ARIANEXT M HYBRID FLEX 7 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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = $+7^{\circ}$ C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	·	1



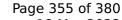


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature





		TIK database on 10 Mai 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



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

COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW	2.76 kW
$COP Tj = +7^{\circ}C$	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Domestic Hot Water (DHW)



Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	108 %	
СОР	2.60	
Heating up time	01:22 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	118 %	
СОР	2.84	
Heating up time	01:27 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Colder Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	93 %	
СОР	2.25	
Heating up time	01:22 h:min	
Standby power input	54.0 W	
Reference hot water temperature	52.9 °C	
Mixed water at 40°C	246	

Model: ARIANEXT M HYBRID UNIVERSAL 7 T LINK

Configure model		
Model name	ARIANEXT M HYBRID UNIVERSAL 7 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	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
СОР	5.00	2.80

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{S}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7 °C	6.98 kW	6.59 kW
COP Tj = -7 °C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
$COP Tj = +2^{\circ}C$	4.59	3.30
Pdh Tj = $+7^{\circ}$ C	2.76 kW	2.58 kW
$COP Tj = +7^{\circ}C$	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW

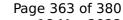




COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1 Low temperature Medium temperature Sound power level indoor 15 dB(A) 15 dB(A) Sound power level outdoor 61 dB(A) 61 dB(A)





EN 14825

	Low temperature	Medium temperature
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	4.85 kW	4.38 kW
COP Tj = +2°C	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COP Tj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W





РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C



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T .	
7.17 kW	6.70 kW
3.42	2.62
4.48 kW	4.13 kW
5.36	3.95
2.90 kW	2.76 kW
6.56	5.13
2.72 kW	2.68 kW
7.43	6.26
7.17 kW	6.70 kW
3.42	2.62
5.51 kW	4.90 kW
2.22	1.51
0.90	0.90
60 °C	60 °C
13 W	13 W
Gas	Gas
4.00 kW	4.00 kW
7544 kWh	9000 kWh
	3.42 4.48 kW 5.36 2.90 kW 6.56 2.72 kW 7.43 7.17 kW 3.42 5.51 kW 2.22 0.90 60 °C 13 W 13 W 13 W 13 W Gas 4.00 kW



Model: AEROTOP HYBRID MINI EVO 07

Configure model		
Model name	AEROTOP HYBRID MINI EVO 07	
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

5.00

	EN 14511-2		
	Low temperature	Medium temperature	
Heat output	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	

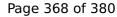
2.80

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	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = $+2$ °C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
	1	



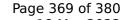


Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

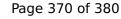
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 1482	25	
	Low temperature	Medium temperature





		TIK database on 10 Mai 20
Pdesignh	4.85 kW	4.38 kW
η_{s}	223 %	150 %
Prated	4.85 kW	4.38 kW
SCOP	5.64	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = $+2$ °C	4.85 kW	4.38 kW
$COPTj = +2^{\circ}C$	3.96	2.24
Pdh Tj = $+7^{\circ}$ C	3.12 kW	2.81 kW
$COPTj = +7^{\circ}C$	4.99	3.12
Pdh Tj = 12°C	2.73 kW	2.63 kW
COP Tj = 12°C	7.46	5.71
Pdh Tj = Tbiv	4.85 kW	4.38 kW
COP Tj = Tbiv	3.96	2.24
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.85 kW	4.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.96	2.24
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	61 dB(A)	61 dB(A)		

EN 14825		
	Low temperature	Medium temperature
Pdesignh	11.85 kW	11.06 kW
η_{s}	152 %	118 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.17 kW	6.70 kW



Page 371 of 380 This information was generated by the HP KEYMARK database on 18 Mar 2022

This information was generated by the HP KEYMARK database on 18 Mar 2022			
COP Tj = -7°C	3.42	2.62	
Pdh Tj = +2°C	4.48 kW	4.13 kW	
COP Tj = +2°C	5.36	3.95	
Pdh Tj = +7°C	2.90 kW	2.76 kW	
$COP Tj = +7^{\circ}C$	6.56	5.13	
Pdh Tj = 12°C	2.72 kW	2.68 kW	
COP Tj = 12°C	7.43	6.26	
Pdh Tj = Tbiv	7.17 kW	6.70 kW	
COP Tj = Tbiv	3.42	2.62	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90	
WTOL	60 °C	60 °C	
Poff	13 W	13 W	
PTO	13 W	13 W	
PSB	13 W	13 W	
PCK	13 W	13 W	
Supplementary Heater: Type of energy input	Gas	Gas	
Supplementary Heater: PSUP	4.00 kW	4.00 kW	
Annual energy consumption Qhe	7544 kWh	9000 kWh	



Model: NIMBUS M FLEX IN 7 NET

Configure model		
Model name	NIMBUS M FLEX IN 7 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	6.40 kW	5.70 kW			
El input	1.28 kW	2.04 kW			
СОР	5.00	2.80			

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



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Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.30 kW	0.40 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh



Model: ARIANEXT M FLEX IN 7 T LINK

Configure model		
Model name ARIANEXT M FLEX IN 7 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 3x230V 50Hz		

Heating

COP

5.00

EN 14511-2		
Low temperature Medium temperature		
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW

2.80

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	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = $+7^{\circ}$ C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40
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Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.30 kW	0.40 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh



Model: AEROTOP MONO BUILT-IN 07M-CR

Configure model			
Model name	AEROTOP MONO BUILT-IN 07M-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	6.40 kW	5.70 kW	
El input	1.28 kW	2.04 kW	
СОР	5.00	2.80	

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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	7.89 kW	7.45 kW
η_{s}	178 %	128 %
Prated	7.89 kW	7.45 kW
SCOP	4.53	3.27
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.98 kW	6.59 kW
COP Tj = -7°C	3.10	2.17
Pdh Tj = +2°C	4.31 kW	4.18 kW
COP Tj = +2°C	4.59	3.30
Pdh Tj = +7°C	2.76 kW	2.58 kW
COP Tj = +7°C	5.30	3.87
Pdh Tj = 12°C	2.60 kW	2.54 kW
COP Tj = 12°C	6.87	5.40



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Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.30 kW	0.40 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh