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Summary of	NIMBUS 50 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5	Reg. No.	ICIM-PDC- 000001
Certificate Holder			
Name	Ariston Thermo Group		
Address	Viale Aristide Merloni 45	Zip	I-60044
City	Fabriano (AN)	Country	Italy
Certification Body	ICIM S.p.A.		
Subtype title	NIMBUS 50 M - ARIANEXT 50 M - AEROTOP MONO 05X - ENERGION M 5		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.88 kg		
Certification Date	19.12.2017		



Model: AEROTOP MONO 05M-RX 1Z

Configure model			
Model name	AEROTOP MONO 05M-RX 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	1x230V 50Hz	

Heating

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

EN 14511-2				
Low temperature Medium temperature				
Heat output	4.40 kW	3.80 kW		
El input	0.88 kW	1.32 kW		
СОР	5.02	2.88		

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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

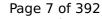


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	EN 14825	
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





3.15	2.26
3.15 kW	3.17 kW
4.42	3.32
2.01 kW	2.14 kW
5.28	3.91
1.54 kW	1.50 kW
7.28	5.40
5.13 kW	5.19 kW
3.15	2.26
5.03 kW	5.00 kW
2.82	2.14
0.90	0.90
60 °C	60 °C
13 W	13 W
Electricity	Electricity
0.77 kW	0.86 kW
2678 kWh	3646 kWh
	3.15 kW 4.42 2.01 kW 5.28 1.54 kW 7.28 5.13 kW 3.15 5.03 kW 2.82 0.90 60 °C 13 W 13 W 13 W 13 W Electricity 0.77 kW

Model: AEROTOP MONO 05M-RX 2Z

Co	nfigure model
Model name	AEROTOP MONO 05M-RX 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	1x230V 50Hz	

Heating

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

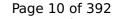
	EN 14511-2	
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	EN 14825	
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



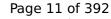


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

erature Medium temperature
8.58 kW





This information was ger	lerated by the HP KETI	MARK database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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

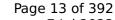


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = +2°C	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	
COP Tj = +7°C	
Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL $60 ^{\circ}\text{C}$ $60 ^{\circ}\text{C}$	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL $60 ^{\circ}\text{C}$ $60 ^{\circ}\text{C}$	
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 0.77 kW 0.86 kW	
Annual energy consumption Qhe 2678 kWh 3646 kWh	

Model: AEROTOP MONO 05M-RXL

Configure model		
Model name	AEROTOP MONO 05M-RXL	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

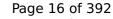
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



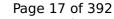


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

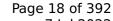
EN 12102-1			
Low temperature Medium temperature		Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

erature Medium temperature
8.58 kW





This information was gen	erated by the Till KETI	TARK database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
$COP Tj = -7^{\circ}C$	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
$COPTj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



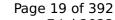


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperatur	e Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: AEROTOP MONO 05M-X 1Z

Configure model		
Model name	AEROTOP MONO 05M-X 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 1x230V 50Hz		

Heating

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



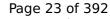


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

erature Medium temperature
8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: AEROTOP MONO 05M-X 2Z

Configure model		
Model name	AEROTOP MONO 05M-X 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	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

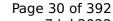
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	'	





This information was gene	erated by the Hi KETI	IANN database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



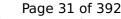


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





$$\operatorname{\textit{Page}}\ 31$$ of 392 This information was generated by the HP KEYMARK database on 7 Jul 2022

$COPTj = -7^{\circ}C$	3.15	2.26
	3.13	2.20
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT LITE 50 M LINK

Configure model		
Model name	ARIANEXT LITE 50 M LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

	General Data	
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



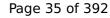


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

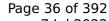
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





This information was ger	ierated by the HP KETI	HARK database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



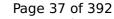


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

Low temperature 5.80 kW 176 %	Medium temperature 5.86 kW
176 %	
	130 %
5.80 kW	5.86 kW
4.47	3.92
-7 °C	-7 °C
-10 °C	-10 °C
5.13 kW	5.19 kW
	5.80 kW 4.47 -7 °C -10 °C





		IANN database on 7 jul 202
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: ARIANEXT LITE 50 M

Configure model		
Model name	ARIANEXT LITE 50 M	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



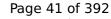


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





This information was generated by the HP KEYMARK database on 7 Jul 2022			
η_{s}	151 %	118 %	
Prated	8.08 kW	8.58 kW	
SCOP	3.85	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.89 kW	5.19 kW	
$COPTj = -7^{\circ}C$	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW	
$COPTj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54	
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperatur	e Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	5.13 kW	5.19 kW





$COPTj = -7^{\circ}C$	3.15	2.26
	3.13	2.20
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: ARIANEXT PLUS 50 M 2Z H LINK

Configure model		
Model name	ARIANEXT PLUS 50 M 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	Power supply 1x230V 50Hz	

Heating

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

EN 14511-2		
Low temperature Medium temperature		
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



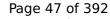


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	<u>'</u>	





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT PLUS 50 M 2Z H

Configure model		
Model name	ARIANEXT PLUS 50 M 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 1x230V 50Hz		

Heating

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



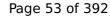


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

erature Medium temperature
8.58 kW





This information was generated by the HP KEYMARK database on 7 Jul 202			
η_{s}	151 %	118 %	
Prated	8.08 kW	8.58 kW	
SCOP	3.85	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.89 kW	5.19 kW	
$COPTj = -7^{\circ}C$	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW	
$COPTj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54	
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	

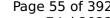


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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$COPTj = -7^{\circ}C$	3.15	2.26
	3.13	2.20
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT PLUS 50 M 2Z LINK

Configure model		
Model name	ARIANEXT PLUS 50 M 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 1x230V 50Hz		

Heating

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

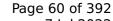
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

erature Medium temperature
8.58 kW





This information was gen	- Clated by the Hi KETI	MARK database on 7 Jul 202
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7$ °C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



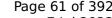


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperatur	e Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	5.13 kW	5.19 kW





$$\operatorname{\textit{Page}}\xspace$ 61 of 392 This information was generated by the HP KEYMARK database on 7 Jul 2022

$COPTj = -7^{\circ}C$	3.15	2.26
	3.13	2.20
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT PLUS 50 M 2Z

Configure model		
Model name	ARIANEXT PLUS 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



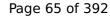


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

erature Medium temperature
8.58 kW





This information was gen	erated by the fir KETI	IARK database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
$COP Tj = -7^{\circ}C$	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
$COPTj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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

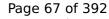


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	



Model: ARIANEXT PLUS 50 M H LINK

Configure model		
Model name	ARIANEXT PLUS 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



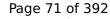


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	'	





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
n _s	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





	iated by the HF KLIN	IARK database on 7 Jul 2022
$COP Tj = -7^{\circ}C$	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT PLUS 50 M H

Configure model		
Model name	ARIANEXT PLUS 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

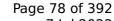
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

erature Medium temperature
8.58 kW





This information was generated by the HP KEYMARK database on 7 Jul 2022				
η_{s}	151 %	118 %		
Prated	8.08 kW	8.58 kW		
SCOP	3.85	3.02		
Tbiv	-7 °C	-7 °C		
TOL	-20 °C	-20 °C		
Pdh Tj = -7°C	4.89 kW	5.19 kW		
$COPTj = -7^{\circ}C$	3.46	2.71		
Pdh Tj = +2°C	2.98 kW	3.17 kW		
COP Tj = +2°C	5.11	3.89		
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW		
$COPTj = +7^{\circ}C$	6.93	4.95		
Pdh Tj = 12°C	1.61 kW	1.60 kW		
COP Tj = 12°C	7.88	6.35		
Pdh Tj = Tbiv	4.89 kW	5.19 kW		
COP Tj = Tbiv	3.46	2.71		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54		
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		



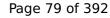


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COPTj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT PLUS 50 M LINK

Configure model		
Model name	ARIANEXT PLUS 50 M LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply		

Heating

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

EN 14511-2		
Low temperature Medium temperature		
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



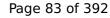


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor 59 dB(A) 59 dB(A)			

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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

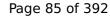


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT PLUS 50 M

Configure model		
Model name	ARIANEXT PLUS 50 M	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



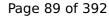


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

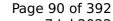
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

erature Medium temperature
8.58 kW





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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
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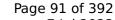


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: NIMBUS PLUS 50 M 2Z H NET

Configure model		
Model name NIMBUS PLUS 50 M 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 1x230V 50Hz		

Heating

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

EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



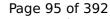


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

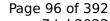
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





$COPTj = -7^{\circ}C$	3.15	2.26
Pdh Tj = $+2^{\circ}$ C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: NIMBUS PLUS 50 M 2Z NET

Configure model		
Model name	NIMBUS PLUS 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



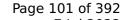


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

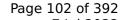
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperatur	e Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: NIMBUS PLUS 50 M H NET

Configure model		
Model name	NIMBUS PLUS 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



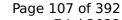


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

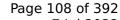
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



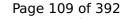


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COPTj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Model: NIMBUS PLUS 50 M NET

Configure model		
Model name	NIMBUS PLUS 50 M NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

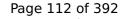
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



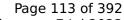


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

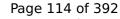
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	8.08 kW	8.58 kW	
	'		





This information was generated by the HP KEYMARK database on 7 Jul 2022				
η_{s}	151 %	118 %		
Prated	8.08 kW	8.58 kW		
SCOP	3.85	3.02		
Tbiv	-7 °C	-7 °C		
TOL	-20 °C	-20 °C		
Pdh Tj = -7°C	4.89 kW	5.19 kW		
$COPTj = -7^{\circ}C$	3.46	2.71		
Pdh Tj = +2°C	2.98 kW	3.17 kW		
COP Tj = +2°C	5.11	3.89		
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW		
$COPTj = +7^{\circ}C$	6.93	4.95		
Pdh Tj = 12°C	1.61 kW	1.60 kW		
COP Tj = 12°C	7.88	6.35		
Pdh Tj = Tbiv	4.89 kW	5.19 kW		
COP Tj = Tbiv	3.46	2.71		
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW		
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54		
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		





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This information was ger	nerated by the HP	KEYMARK database	e on 7 Iul 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
ГЬіν	-7 °C	-7 °C
ГОЬ	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = +2°C	
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COP Tj = +7°C	
Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL $60 ^{\circ}\text{C}$ $60 ^{\circ}\text{C}$	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL $60 ^{\circ}\text{C}$ $60 ^{\circ}\text{C}$	
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 0.77 kW 0.86 kW	
Annual energy consumption Qhe 2678 kWh 3646 kWh	

Model: NIMBUS POCKET 50 M NET

Configure model		
Model name	NIMBUS POCKET 50 M NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

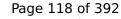
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



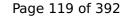


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

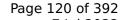
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	<u>'</u>	





	, , , , , , , , , , , , , , , , , , , 	IARK database on 7 Jul 202.
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
$COPTj = +2^{\circ}C$	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



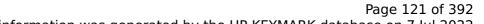


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





This information was generated by the Thinkink database on	This information was generated by the HP KEYMARK database on 7 Jul 2022		
COP Tj = -7° C 2.26			

COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: AEROTOP MONO 05M-CRX 1Z

Configure model		
Model name AEROTOP MONO 05M-CRX 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 1x230V 50Hz		

Heating

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

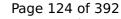
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



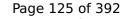


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

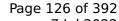
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
		ı



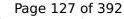


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperatur	e Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	5.13 kW	5.19 kW





		<u> </u>
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Domestic Hot Water (DHW)



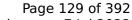
Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246

Colder Climate

EN 16147	
Declared load profile	XL
Declared load profile	AL .
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

Average Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

Model: AEROTOP MONO 05M-CRX 2Z

Configure model		
Model name	AEROTOP MONO 05M-CRX 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	1x230V 50Hz	

Heating

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

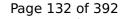
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
	'	•



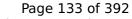


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

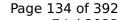
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
Low temperature Medium temperatur			
Pdesignh	8.08 kW	8.58 kW	
	'		





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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
		ı





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	M	
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



Model: ARIANEXT COMPACT 50 M 2Z LINK

Configure model		
Model name	ARIANEXT COMPACT 50 M 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 1x230V 50Hz			

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

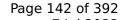
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

ure Medium temperature
8.58 kW
_





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



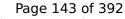


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



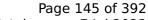
Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
- Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	
IMIXEU Water at 40 C	2401	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Model: ARIANEXT COMPACT 50 M LINK

Configure model		
Model name	ARIANEXT COMPACT 50 M LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
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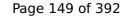


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

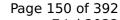
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
η_{s}	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
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COP Tj = -7°C 3.15 2.26 Pdh Tj = +2°C 3.15 kW 3.17 kW COP Tj = +2°C 4.42 3.32 Pdh Tj = +7°C 2.01 kW 2.14 kW COP Tj = +7°C 5.28 3.91 Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C Poff 13 W 13 W
COP Tj = +2°C
Pdh Tj = +7°C 2.01 kW 2.14 kW COP Tj = +7°C 5.28 3.91 Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh
COP Tj = +7°C 5.28 3.91 Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh
Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh
COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh
Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh
COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL $60 ^{\circ}\text{C}$ $60 ^{\circ}\text{C}$
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 0.77 kW 0.86 kW
Annual energy consumption Qhe 2678 kWh 3646 kWh

Domestic Hot Water (DHW)



Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 I

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Model: ARIANEXT FLEX 50 M 2Z H LINK

Configure model		
Model name	ARIANEXT FLEX 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



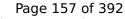


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	'	





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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
		ı



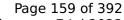


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperatur	e Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7° C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I

Average Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I

Model: ARIANEXT FLEX 50 M 2Z LINK

Configure model	
Model name	ARIANEXT FLEX 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = $+7^{\circ}$ C	2.23 kW	1.92 kW
$COP Tj = +7^{\circ}C$	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



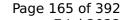


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



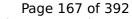


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





		<u> </u>
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Domestic Hot Water (DHW)



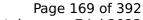
Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Colder Climate

EN 16147		
Declared load profile	M	
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Model: ARIANEXT FLEX 50 M H LINK

Configure model		
Model name ARIANEXT FLEX 50 M 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 1x230V 50Hz		

Heating

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

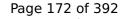
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



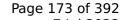


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

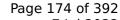
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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





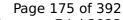
This information	was generated by	the HP	KEYMARK	database on '	7 Jul 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
5.80 kW	5.86 kW	
176 %	130 %	
5.80 kW	5.86 kW	
4.47	3.92	
-7 °C	-7 °C	
-10 °C	-10 °C	
5.13 kW	5.19 kW	
	Low temperature 5.80 kW 176 % 5.80 kW 4.47 -7 °C -10 °C	





Time intermidation mas gene	,	
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
1	t .	

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

Average Climate



EN 16147 Declared load profile XL 107 % Efficiency ηDHW COP 2.60 01:48 h:min Heating up time Standby power input 44.0 W 52.5 °C Reference hot water temperature Mixed water at 40°C 246 I

Model: ARIANEXT FLEX 50 M LINK

Configure model		
Model name	ARIANEXT FLEX 50 M LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

CEN heat pump

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



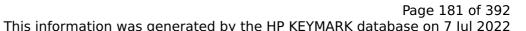


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

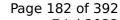
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	8.08 kW	8.58 kW	





151 %	118 %
8.08 kW	8.58 kW
3.85	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.89 kW	5.19 kW
3.46	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
13 W	13 W
	8.08 kW 3.85 -7 °C -20 °C 4.89 kW 3.46 2.98 kW 5.11 1.95 kW 6.93 1.61 kW 7.88 4.89 kW 3.46 3.69 kW 2.29 0.90 60 °C 13 W



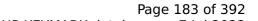


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = $+2$ °C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



Model: NIMBUS COMPACT 50 M 2Z NET

Configure model		
Model name	NIMBUS COMPACT 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2		
Low temperature Medium temperature		
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



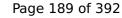


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

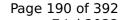
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	'	





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



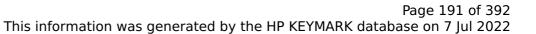


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





		IAIN database on 7 jul 202
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



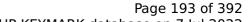
Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Model: NIMBUS COMPACT 50 M NET

Configure model		
Model name	NIMBUS COMPACT 50 M NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



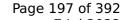


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

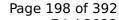
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

erature Medium temperature
8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



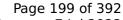


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





		<u> </u>
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

Average Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I



Model: NIMBUS FLEX 50 M 2Z H NET

Configure model		
Model name NIMBUS FLEX 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



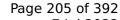


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

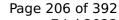
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Domestic Hot Water (DHW)



Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246 I

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

Average Climate



EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I

Model: NIMBUS FLEX 50 M 2Z NET

Configure model	
Model name	NIMBUS FLEX 50 M 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	1x230V 50Hz	

Heating

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

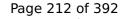
EN 14511-2		
Low temperature Medium temperature		
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



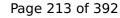


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

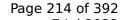
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	'	





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



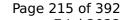


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Model: NIMBUS FLEX 50 M H NET

Configure model		
Model name	NIMBUS FLEX 50 M 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	1x230V 50Hz	

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



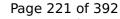


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

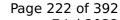
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



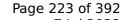


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

Average Climate



EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246



Model: NIMBUS FLEX 50 M NET

Configure model		
Model name NIMBUS FLEX 50 M NET		
Application	lication Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
eversibility		
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

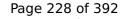
EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



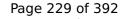


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

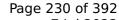
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





This information was ger	ierated by the HP KETK	HARK database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



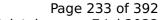
Warmer Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	133 %
СОР	3.20
Heating up time	02:46 h:min
Standby power input	49.0 W
Reference hot water temperature	53.1 °C
Mixed water at 40°C	246

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246 I

Average Climate





EN 16147	
Declared load profile	XL
Efficiency ηDHW	107 %
СОР	2.60
Heating up time	01:48 h:min
Standby power input	44.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246



Model: ARIANEXT COMPACT 50 M 2Z

Configure model	
Model name	ARIANEXT COMPACT 50 M 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 1x230V 50Hz			

Heating

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

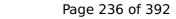
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 I	

Model: ARIANEXT COMPACT 50 M

Configure model		
Model name	ARIANEXT COMPACT 50 M	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

Heating

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

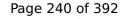
EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40

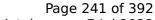




Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147	
Declared load profile	L
Efficiency ηDHW	131 %
СОР	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 I

Model: ARIANEXT FLEX 50 M 2Z H

Configure model		
Model name	ARIANEXT FLEX 50 M 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 1x230V 50Hz		

Heating

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

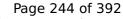
EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	131 %
СОР	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 I



Model: ARIANEXT FLEX 50 M 2Z

Configure model	
Model name	ARIANEXT FLEX 50 M 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			

Heating

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

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate



EN 16147	
Declared load profile	L
Efficiency ηDHW	131 %
СОР	3.10
Heating up time	01:34 h:min
Standby power input	38.0 W
Reference hot water temperature	53.0 °C
Mixed water at 40°C	250 I



Model: ARIANEXT FLEX 50 M H

Configure model		
Model name ARIANEXT FLEX 50 M 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			

Heating

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

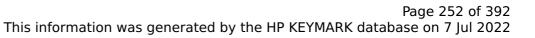
EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
η_{s}	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	





Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate



250 I



Mixed water at 40°C

EN 16147 Declared load profile Efficiency ηDHW 131 % COP 3.10 01:34 h:min Heating up time Standby power input 38.0 W 53.0 °C Reference hot water temperature



Model: ARIANEXT FLEX 50 M

Configure model		
Model name	ARIANEXT FLEX 50 M	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

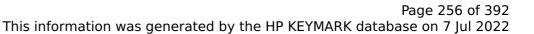
EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
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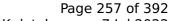




Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)

Average Climate





EN 16147		
Declared load profile	L	
Efficiency ηDHW	131 %	
СОР	3.10	
Heating up time	01:34 h:min	
Standby power input	38.0 W	
Reference hot water temperature	53.0 °C	
Mixed water at 40°C	250 I	

Model: ENERGION M PLUS 5

Configure model		
Model name ENERGION M PLUS 5		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

EN 14511-2		
Low temperature		Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825				
Low temperature Medium temperature				
Pdesignh	3.47 kW	2.98 kW		
η_{s}	232 %	151 %		
Prated	3.47 kW	2.98 kW		
SCOP	5.88	3.84		
Tbiv	2 °C	2 °C		
TOL	2 °C	2 °C		
Pdh Tj = +2°C	3.47 kW	2.98 kW		
COP Tj = +2°C	3.88	2.33		
Pdh Tj = +7°C	2.23 kW	1.92 kW		
COP Tj = +7°C	5.15	3.00		
Pdh Tj = 12°C	1.60 kW	1.59 kW		
COP Tj = 12°C	7.80	5.86		
Pdh Tj = Tbiv	3.47 kW	2.98 kW		
COP Tj = Tbiv	3.88	2.33		



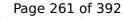


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

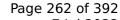
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

Medium temperature
8.58 kW
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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
		ı





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
		·





COP Tj = -7°C 3.15 2.26 Pdh Tj = +2°C 3.15 kW 3.17 kW COP Tj = +2°C 4.42 3.32 Pdh Tj = +7°C 2.01 kW 2.14 kW COP Tj = +7°C 5.28 3.91 Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C	
COP Tj = +2°C	
Pdh Tj = $+7^{\circ}$ C 2.01 kW 2.14 kW COP Tj = $+7^{\circ}$ C 5.28 3.91 Pdh Tj = 12° C 1.54 kW 1.50 kW COP Tj = 12° C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
COP Tj = +7°C	
Pdh Tj = 12°C 1.54 kW 1.50 kW COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
COP Tj = 12°C 7.28 5.40 Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
Pdh Tj = Tbiv 5.13 kW 5.19 kW COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	
COP Tj = Tbiv 3.15 2.26 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL $60 ^{\circ}\text{C}$ $60 ^{\circ}\text{C}$	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 5.03 kW 5.00 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 WTOL 60 °C 60 °C	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 2.82 2.14 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL 60 °C 60 °C	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.90 0.90 WTOL $60 ^{\circ}\text{C}$ $60 ^{\circ}\text{C}$	
WTOL 60 °C 60 °C	
2011	
Poff	
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 0.77 kW 0.86 kW	
Annual energy consumption Qhe 2678 kWh 3646 kWh	

Model: ENERGION M PLUS 5 2Z

Configure model		
Model name	ENERGION M PLUS 5 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	1x230V 50Hz	

Heating

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

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



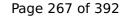


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperatu	re Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



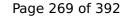


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	43 dB(A)	43 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
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Model: ENERGION M COMPACT 5

Configure model		
Model name	ENERGION M COMPACT 5	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

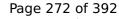
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



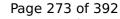


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

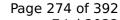
EN 12102-1				
Low temperature Medium temperature				
Sound power level indoor	15 dB(A)	15 dB(A)		
Sound power level outdoor	59 dB(A)	59 dB(A)		

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	<u>'</u>	





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



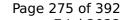


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
n _s	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





		<u> </u>
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



Model: ENERGION M COMPACT 5 2Z

Configure model		
Model name	ENERGION M COMPACT 5 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 1x230V 50Hz			

Heating

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

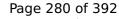
EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33
	'	•



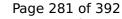


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

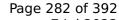
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



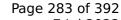


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



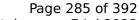
Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

Model: ENERGION M FLEX 180 e

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

General Data		
Power supply	1x230V 50Hz	

Heating

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

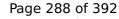
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

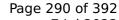
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	8.08 kW	8.58 kW	





This information was generated by the HP KEYMARK database on 7 Jul 2022			
η_{s}	151 %	118 %	
Prated	8.08 kW	8.58 kW	
SCOP	3.85	3.02	
Tbiv	-7 °C	-7 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	4.89 kW	5.19 kW	
$COPTj = -7^{\circ}C$	3.46	2.71	
Pdh Tj = +2°C	2.98 kW	3.17 kW	
COP Tj = +2°C	5.11	3.89	
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW	
$COPTj = +7^{\circ}C$	6.93	4.95	
Pdh Tj = 12°C	1.61 kW	1.60 kW	
COP Tj = 12°C	7.88	6.35	
Pdh Tj = Tbiv	4.89 kW	5.19 kW	
COP Tj = Tbiv	3.46	2.71	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54	
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	



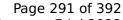


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Domestic Hot Water (DHW)



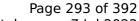
Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	95 %
СОР	2.30
Heating up time	02:55 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	246

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



Model: ENERGION M FLEX 5 2Z 180 e

Configure model		
Model name	ENERGION M FLEX 5 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 1x230V 50Hz		

Heating

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

EN 14511-2		
Low temperature Medium temperature		
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

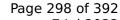
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





This information was gen	erated by the HP KETN	HARK database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7$ °C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



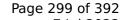


PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
5.80 kW	5.86 kW	
176 %	130 %	
5.80 kW	5.86 kW	
4.47	3.92	
-7 °C	-7 °C	
-10 °C	-10 °C	
5.13 kW	5.19 kW	
	Low temperature 5.80 kW 176 % 5.80 kW 4.47 -7 °C -10 °C	





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



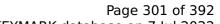
Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246 I	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	

Model: ENERGION M LIGHT 5

Configure model		
Model name	ENERGION M LIGHT 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



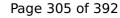


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





151 %	118 %
8.08 kW	8.58 kW
3.85	3.02
-7 °C	-7 °C
-20 °C	-20 °C
4.89 kW	5.19 kW
3.46	2.71
2.98 kW	3.17 kW
5.11	3.89
1.95 kW	2.03 kW
6.93	4.95
1.61 kW	1.60 kW
7.88	6.35
4.89 kW	5.19 kW
3.46	2.71
3.69 kW	3.18 kW
2.29	1.54
0.90	0.90
60 °C	60 °C
13 W	13 W
13 W	13 W
	8.08 kW 3.85 -7 °C -20 °C 4.89 kW 3.46 2.98 kW 5.11 1.95 kW 6.93 1.61 kW 7.88 4.89 kW 3.46 3.69 kW 2.29 0.90 60 °C 13 W





PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
5.80 kW	5.86 kW	
176 %	130 %	
5.80 kW	5.86 kW	
4.47	3.92	
-7 °C	-7 °C	
-10 °C	-10 °C	
5.13 kW	5.19 kW	
	Low temperature 5.80 kW 176 % 5.80 kW 4.47 -7 °C -10 °C	





	<u> </u>	· · · · · · · · · · · · · · · · · · ·
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COPTj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
	•	

Model: ENERGION M HYBRIDall 5

Configure model		
Model name	ENERGION M HYBRIDall 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

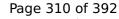
EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



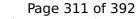


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

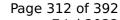
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	'	





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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



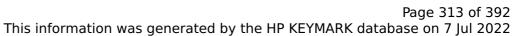


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: ATAG p ENERGION M HYBRIDzone 5

Configure model		
Model name	ATAG p ENERGION M HYBRIDzone 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

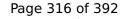
EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



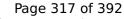


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

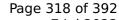
EN 12102-1		
Low temperature Medium temperature		
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	'	





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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2^{\circ}$ C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
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	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
5.80 kW	5.86 kW	
176 %	130 %	
5.80 kW	5.86 kW	
4.47	3.92	
-7 °C	-7 °C	
-10 °C	-10 °C	
5.13 kW	5.19 kW	
	Low temperature 5.80 kW 176 % 5.80 kW 4.47 -7 °C -10 °C	





	tated by the HF KLTIV	IARK database on 7 Jul 202.
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: ATAG i ENERGION M HYBRIDzone 5

Configure model		
Model name ATAG i ENERGION M HYBRIDzone 5		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	ication (optional) n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

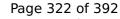
EN 14511-2			
Low temperature Medium temperature		Medium temperature	
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



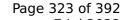


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7$ °C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.95 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





This information was generated by the HP KETMARK database on 7 Jul 2022			
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
$COP Tj = +7^{\circ}C$	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	
Pdh Tj = Tbiv	5.13 kW	5.19 kW	
COP Tj = Tbiv	3.15	2.26	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14	
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	0.77 kW	0.86 kW	
Annual energy consumption Qhe	2678 kWh	3646 kWh	

Model: NIMBUS M HYBRID 5 NET

Configure model		
Model name	NIMBUS M HYBRID 5 NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

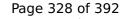
EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

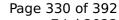
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





This information was gen	erated by the Till KETI	TARK database on 7 Jul 2022
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7 °C	4.89 kW	5.19 kW
$COP Tj = -7^{\circ}C$	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
$COPTj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
5.80 kW	5.86 kW	
176 %	130 %	
5.80 kW	5.86 kW	
4.47	3.92	
-7 °C	-7 °C	
-10 °C	-10 °C	
5.13 kW	5.19 kW	
	Low temperature 5.80 kW 176 % 5.80 kW 4.47 -7 °C -10 °C	



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This information was generated by the HP KEYMARK database on 7 Jul 2022

COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: NIMBUS M HYBRID FLEX 5 NET

Configure model		
Model name	NIMBUS M HYBRID FLEX 5 NET	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

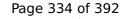
EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

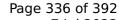
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	4.89 kW	5.19 kW
$COP Tj = -7^{\circ}C$	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
Low temperature	Medium temperature	
5.80 kW	5.86 kW	
176 %	130 %	
5.80 kW	5.86 kW	
4.47	3.92	
-7 °C	-7 °C	
-10 °C	-10 °C	
5.13 kW	5.19 kW	
	Low temperature 5.80 kW 176 % 5.80 kW 4.47 -7 °C -10 °C	





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246 I	



Model: NIMBUS M HYBRID UNIVERSAL 5 NET

Configure model		
Model name	NIMBUS M HYBRID UNIVERSAL 5 NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

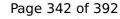
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825				
Low temperature Medium temperature				
Pdesignh	3.47 kW	2.98 kW		
η_{s}	232 %	151 %		
Prated	3.47 kW	2.98 kW		
SCOP	5.88	3.84		
Tbiv	2 °C	2 °C		
TOL	2 °C	2 °C		
Pdh Tj = +2°C	3.47 kW	2.98 kW		
COP Tj = +2°C	3.88	2.33		
Pdh Tj = +7°C	2.23 kW	1.92 kW		
COP Tj = +7°C	5.15	3.00		
Pdh Tj = 12°C	1.60 kW	1.59 kW		
COP Tj = 12°C	7.80	5.86		
Pdh Tj = Tbiv	3.47 kW	2.98 kW		
COP Tj = Tbiv	3.88	2.33		



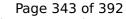


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
РТО	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





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η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2^{\circ}$ C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = +7°C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
РТО	13 W	13 W



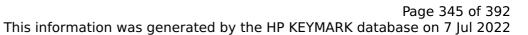


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





This information was generated by the HP KETMARK database on 7 jul 2022			
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
$COP Tj = +7^{\circ}C$	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	
Pdh Tj = Tbiv	5.13 kW	5.19 kW	
COP Tj = Tbiv	3.15	2.26	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14	
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	0.77 kW	0.86 kW	
Annual energy consumption Qhe	2678 kWh	3646 kWh	
	•		



Model: ARIANEXT M HYBRID 5 LINK

Configure model		
Model name	ARIANEXT M HYBRID 5 LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



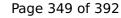


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

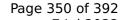
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW



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This information was generated by the HP KEYMARK database on 7 Jul 2022

	•	
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: ARIANEXT M HYBRID FLEX 5 LINK

Configure model		
Model name	ARIANEXT M HYBRID FLEX 5 LINK	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

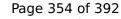
EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

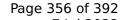
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

Medium temperature
8.58 kW
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	,	
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
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PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





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COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
$COP Tj = +2^{\circ}C$	4.42	3.32
Pdh Tj = $+7^{\circ}$ C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh
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Domestic Hot Water (DHW)



Warmer Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	133 %	
СОР	3.20	
Heating up time	02:46 h:min	
Standby power input	49.0 W	
Reference hot water temperature	53.1 °C	
Mixed water at 40°C	246	

Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	95 %	
СОР	2.30	
Heating up time	02:55 h:min	
Standby power input	42.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	

Average Climate





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	107 %	
СОР	2.60	
Heating up time	01:48 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	246	



Model: ARIANEXT M HYBRID UNIVERSAL 5 LINK

Configure model		
Model name	ARIANEXT M HYBRID UNIVERSAL 5 LINK	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = +2°C	2.98 kW	3.17 kW
$COP Tj = +2^{\circ}C$	5.11	3.89
Pdh Tj = $+7$ °C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{S}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





	tated by the HF KLTIV	IARK database on 7 Jul 202.
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
$COP Tj = +7^{\circ}C$	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: AEROTOP HYBRID MINI EVO 05X

Configure model		
Model name	AEROTOP HYBRID MINI EVO 05X	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.40 kW	3.80 kW
El input	0.88 kW	1.32 kW
СОР	5.02	2.88

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



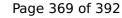


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

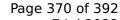
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





<u> </u>	<u> </u>	<u> </u>
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2^{\circ}$ C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
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PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





.15 kW .42 .01 kW	2.26 3.17 kW 3.32 2.14 kW
.42 .01 kW	3.32
.01 kW	
	2.14 kW
.28	3.91
.54 kW	1.50 kW
.28	5.40
.13 kW	5.19 kW
.15	2.26
.03 kW	5.00 kW
.82	2.14
.90	0.90
0 °C	60 °C
3 W	13 W
Gas	Gas
.77 kW	0.86 kW
678 kWh	3646 kWh
5 2 1 1 	64 kW 28 3 kW 55 03 kW 82 00 °C W W W W S 77 kW

Model: AEROTOP HYBRID MINI EVO 5

Configure model		
Model name	AEROTOP HYBRID MINI EVO 5	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33



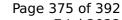


Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	790 kWh	1035 kWh

Colder Climate

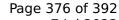
EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW
	·	





<u> </u>	<u> </u>	<u> </u>
η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.89 kW	5.19 kW
COP Tj = -7°C	3.46	2.71
Pdh Tj = $+2^{\circ}$ C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COP Tj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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
		I



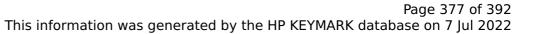


PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.77 kW	0.86 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh

Model: AEROTOP HYBRID UNIVERSAL 5

Configure model		
Model name AEROTOP HYBRID UNIVERSAL 5		
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Warmer Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	e Medium temperature
Pdesignh	3.47 kW	2.98 kW
η_{s}	232 %	151 %
Prated	3.47 kW	2.98 kW
SCOP	5.88	3.84
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.47 kW	2.98 kW
COP Tj = +2°C	3.88	2.33
Pdh Tj = +7°C	2.23 kW	1.92 kW
COP Tj = +7°C	5.15	3.00
Pdh Tj = 12°C	1.60 kW	1.59 kW
COP Tj = 12°C	7.80	5.86
Pdh Tj = Tbiv	3.47 kW	2.98 kW
COP Tj = Tbiv	3.88	2.33





Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.47 kW	2.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.88	2.33
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	790 kWh	1035 kWh

Colder Climate

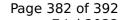
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	8.08 kW	8.58 kW





η_{s}	151 %	118 %
Prated	8.08 kW	8.58 kW
SCOP	3.85	3.02
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7° C	4.89 kW	5.19 kW
$COPTj = -7^{\circ}C$	3.46	2.71
Pdh Tj = $+2$ °C	2.98 kW	3.17 kW
COP Tj = +2°C	5.11	3.89
Pdh Tj = $+7^{\circ}$ C	1.95 kW	2.03 kW
$COPTj = +7^{\circ}C$	6.93	4.95
Pdh Tj = 12°C	1.61 kW	1.60 kW
COP Tj = 12°C	7.88	6.35
Pdh Tj = Tbiv	4.89 kW	5.19 kW
COP Tj = Tbiv	3.46	2.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.69 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.29	1.54
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





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This information was generated by the HP KEYMARK databas	se on 7 Iul 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	3.96 kW	4.00 kW
Annual energy consumption Qhe	5175 kWh	7004 kWh

Average Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	15 dB(A)	15 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW





This information was generated by the HP KETMARK database on 7 Jul 2022			
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
$COP Tj = +7^{\circ}C$	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	
Pdh Tj = Tbiv	5.13 kW	5.19 kW	
COP Tj = Tbiv	3.15	2.26	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14	
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	0.77 kW	0.86 kW	
Annual energy consumption Qhe	2678 kWh	3646 kWh	

Model: NIMBUS M FLEX IN 5 NET

Configure model		
Model name	NIMBUS M FLEX IN 5 NET	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	1x230V 50Hz	

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40
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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: ARIANEXT M FLEX IN 5 LINK

Configure model		
Model name ARIANEXT M FLEX IN 5 LINK		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Average Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	0 dB(A)	0 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825		
	Low temperature	Medium temperature
Pdesignh	5.80 kW	5.86 kW
η_{s}	176 %	130 %
Prated	5.80 kW	5.86 kW
SCOP	4.47	3.92
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.13 kW	5.19 kW
COP Tj = -7°C	3.15	2.26
Pdh Tj = +2°C	3.15 kW	3.17 kW
COP Tj = +2°C	4.42	3.32
Pdh Tj = +7°C	2.01 kW	2.14 kW
COP Tj = +7°C	5.28	3.91
Pdh Tj = 12°C	1.54 kW	1.50 kW
COP Tj = 12°C	7.28	5.40



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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh



Model: AEROTOP MONO BUILT-IN 05M-CRX

Configure model		
Model name AEROTOP MONO BUILT-IN 05M-CRX		
Application Heating (medium temp)		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility No		
Cooling mode application (optional)	n/a	

General Data		
Power supply 1x230V 50Hz		

Heating

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

EN 14511-2			
Low temperature Medium temperature			
Heat output	4.40 kW	3.80 kW	
El input	0.88 kW	1.32 kW	
СОР	5.02	2.88	

Average Climate



EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	0 dB(A)	0 dB(A)	
Sound power level outdoor	59 dB(A)	59 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
Pdesignh	5.80 kW	5.86 kW	
η_{s}	176 %	130 %	
Prated	5.80 kW	5.86 kW	
SCOP	4.47	3.92	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.13 kW	5.19 kW	
COP Tj = -7°C	3.15	2.26	
Pdh Tj = +2°C	3.15 kW	3.17 kW	
COP Tj = +2°C	4.42	3.32	
Pdh Tj = +7°C	2.01 kW	2.14 kW	
COP Tj = +7°C	5.28	3.91	
Pdh Tj = 12°C	1.54 kW	1.50 kW	
COP Tj = 12°C	7.28	5.40	



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This information was generated by the HP KEYMARK database on 7 Jul 2022

Pdh Tj = Tbiv	5.13 kW	5.19 kW
COP Tj = Tbiv	3.15	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.03 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.14
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	0.80 kW	0.90 kW
Annual energy consumption Qhe	2678 kWh	3646 kWh