

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	NIMBUS 70 M-T - ARIANEXT 70 M-T - AEROTOP MONO 07 - ENERGION M 7T		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.			
Name of testing laboratory	-Transition Rules-			
Subtype title	NIMBUS 70 M-T - ARIANEXT 70 M-T - AEROTOP MONO 07 - ENERGION M 7T			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	2.77 kg			
Certification Date	19.12.2017			

Model: AEROTOP MONO 07M 1Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

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Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: AEROTOP MONO 07M 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
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EN 14825

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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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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Sound power level indoor	43 dB(A)	43 dB(A)
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COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
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Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: AEROTOP MONO 07M-R 1Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
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P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
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COP T _j = -7°C	3.10	2.17
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COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
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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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
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P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
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P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	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	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
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P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

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Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: AEROTOP MONO 07M-R 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
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PCK	13 W	13 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
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EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

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η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
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C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	1148 kWh	1524 kWh

Colder Climate

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	4.00 kW	4.00 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: AEROTOP MONO 07M-RL

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
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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
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Complete power supply failure	passed
Defrost test	passed

Average Climate

EN 12102-1

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EN 14825

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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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT LITE 70 M-T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT LITE 70 M-T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

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

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT PLUS 70 M-T 2Z H

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT PLUS 70 M-T 2Z LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT PLUS 70 M-T 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT PLUS 70 M-T H LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT PLUS 70 M-T H

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT PLUS 70 M-T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT PLUS 70 M-T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

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

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS PLUS 70 M-T 2Z NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS PLUS 70 M-T H NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS PLUS 70 M-T NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS POCKET 70 M-T NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: AEROTOP MONO 07M-CR 1Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: AEROTOP MONO 07M-CR 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT COMPACT 70 M-T 2Z LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT COMPACT 70 M-T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

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

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT FLEX 70 M-T 2Z LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT FLEX 70 M-T H LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT FLEX 70 M-T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS COMPACT 70 M-T 2Z NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS COMPACT 70 M-T NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

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

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS FLEX 70 M-T 2Z NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS FLEX 70 M-T H NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS FLEX 70 M-T NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT COMPACT 70 M-T 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT COMPACT 70 M-T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT FLEX 70 M-T 2Z H

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT FLEX 70 M-T 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT FLEX 70 M-T H

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT FLEX 70 M-T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M PLUS 7 T 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	15 W	15 W
PTO	15 W	15 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M PLUS 7 T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M LIGHT 7 T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M FLEX 7 T 180 e

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T_{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
$P_{dh} T_j = -7^{\circ}C$	6.98 kW	6.59 kW
$COP T_j = -7^{\circ}C$	3.10	2.17
$P_{dh} T_j = +2^{\circ}C$	4.31 kW	4.18 kW
$COP T_j = +2^{\circ}C$	4.59	3.30
$P_{dh} T_j = +7^{\circ}C$	2.76 kW	2.58 kW
$COP T_j = +7^{\circ}C$	5.30	3.87
$P_{dh} T_j = 12^{\circ}C$	2.60 kW	2.54 kW
$COP T_j = 12^{\circ}C$	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M FLEX 7 T 2Z 180 e

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	15 W	15 W
PTO	15 W	15 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M COMPACT 7 T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M COMPACT 7 T 2Z

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	15 W	15 W
PTO	15 W	15 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ENERGION M HYBRIDall 7 T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL	5.51 kW	4.90 kW
COP Tj = TOL	2.22	1.51
Cdh	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	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: ATAG p ENERGION M HYBRIDzone 7 T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL	5.51 kW	4.90 kW
COP Tj = TOL	2.22	1.51
Cdh	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	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: ATAG i ENERGION M HYBRIDzone 7 T

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL	5.51 kW	4.90 kW
COP Tj = TOL	2.22	1.51
Cdh	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	5.72 kW	5.58 kW
Annual energy consumption Qhe	7544 kWh	9000 kWh

Model: NIMBUS M HYBRID UNIVERSAL 7 T NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS M HYBRID 7 T NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS M HYBRID FLEX 7 T NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η _s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT M HYBRID 7 T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT M HYBRID FLEX 7 T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Domestic Hot Water (DHW)

Average Climate

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

Warmer Climate

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

Colder Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT M HYBRID UNIVERSAL 7 T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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 Q _{he}	1148 kWh	1524 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: AEROTOP HYBRID MINI EVO 07

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	15 dB(A)	15 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL	2.73 kW	7.06 kW
COP Tj = TOL	2.77	1.95
Cdh	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	0.32 kW	0.39 kW
Annual energy consumption Qhe	3598 kWh	4706 kWh

Warmer Climate

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

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 17 Dec 2020

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	6.30 kW	5.70 kW
SCOP	5.64	3.84
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	4.85 kW	4.38 kW
COP T _j = +2°C	3.96	2.24
P _{dh} T _j = +7°C	3.12 kW	2.81 kW
COP T _j = +7°C	4.99	3.12
P _{dh} T _j = 12°C	2.73 kW	2.63 kW
COP T _j = 12°C	7.46	5.71
P _{dh} T _j = T _{biv}	4.85 kW	4.38 kW
COP T _j = T _{biv}	3.96	2.24
P _{dh} T _j = TOL	4.85 kW	4.38 kW
COP T _j = TOL	3.96	2.24
C _{dh}	0.90	0.90
WTOL	60 °C	60 °C
P _{off}	13 W	13 W
PTO	13 W	13 W

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	4.80 kW	4.40 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.17 kW	6.70 kW

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: NIMBUS M FLEX IN 7 NET

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: ARIANEXT M FLEX IN 7 T LINK

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Model: AEROTOP MONO BUILT-IN 07M-CR

General Data

Power supply	3x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	6.40 kW	5.70 kW
El input	1.28 kW	2.04 kW
COP	5.00	2.80
Indoor water flow rate	1.11 m ³ /h	0.62 m ³ /h

EN 14511-4

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

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	4.86 kW	5.62 kW
SCOP	4.53	3.27
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.98 kW	6.59 kW
COP T _j = -7°C	3.10	2.17
P _{dh} T _j = +2°C	4.31 kW	4.18 kW
COP T _j = +2°C	4.59	3.30
P _{dh} T _j = +7°C	2.76 kW	2.58 kW
COP T _j = +7°C	5.30	3.87
P _{dh} T _j = 12°C	2.60 kW	2.54 kW
COP T _j = 12°C	6.87	5.40

This information was generated by the HP KEYMARK database on 17 Dec 2020

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