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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.		
Subtype title	NIMBUS 70 M-T - ARIANEXT 70 M-T - AEROTOP MONO 07 - ENERGION M 7T		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.77 kg		
Certification Date	19.12.2017		

Model: AEROTOP MONO 07M 1Z

Configure model

Model name	AEROTOP MONO 07M 1Z
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	3x230V 50Hz
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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

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: AEROTOP MONO 07M 2Z

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: AEROTOP MONO 07M-R 1Z

Configure model	
Model name	AEROTOP MONO 07M-R 1Z
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: AEROTOP MONO 07M-R 2Z

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: AEROTOP MONO 07M-RL

Configure model

Model name	AEROTOP MONO 07M-RL
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	3x230V 50Hz
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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

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT LITE 70 M-T LINK

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT LITE 70 M-T

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT PLUS 70 M-T 2Z H

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT PLUS 70 M-T 2Z LINK

Configure model	
Model name	ARIANEXT PLUS 70 M-T 2Z LINK
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT PLUS 70 M-T 2Z

Configure model	
Model name	ARIANEXT PLUS 70 M-T 2Z
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT PLUS 70 M-T H LINK

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT PLUS 70 M-T H

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT PLUS 70 M-T LINK

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT PLUS 70 M-T

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

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

Configure model	
Model name	NIMBUS PLUS 70 M-T 2Z H NET
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS PLUS 70 M-T 2Z NET

Configure model	
Model name	NIMBUS PLUS 70 M-T 2Z NET
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS PLUS 70 M-T H NET

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS PLUS 70 M-T NET

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS POCKET 70 M-T NET

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: AEROTOP MONO 07M-CR 1Z

Configure model	
Model name	AEROTOP MONO 07M-CR 1Z
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
P _{designh}	11.85 kW	11.06 kW
η_s	152 %	118 %
P _{rated}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
Prated	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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

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

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	7.89 kW	7.45 kW
η_s	178 %	128 %
P_{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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

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

Configure model

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

General Data

Power supply	3x230V 50Hz
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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

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

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

Configure model

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

General Data

Power supply	3x230V 50Hz
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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

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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

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

Configure model

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

General Data

Power supply	3x230V 50Hz
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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

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ENERGION M PLUS 7 T

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ENERGION M LIGHT 7 T

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ENERGION M FLEX 7 T 180 e

Configure model	
Model name	ENERGION M FLEX 7 T 180 e
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

Configure model	
Model name	ENERGION M FLEX 7 T 2Z 180 e
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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

Colder Climate

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

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

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

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency 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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ATAG p ENERGION M HYBRIDzone 7 T

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ATAG i ENERGION M HYBRIDzone 7 T

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS M HYBRID UNIVERSAL 7 T NET

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS M HYBRID 7 T NET

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

General Data	
Power supply	3x230V 50Hz

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS M HYBRID FLEX 7 T NET

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

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 18 Mar 2022

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

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

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: ARIANEXT M HYBRID FLEX 7 T LINK

Configure model	
Model name	ARIANEXT M HYBRID FLEX 7 T LINK
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

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

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

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 18 Mar 2022

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

Configure model

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

General Data

Power supply	3x230V 50Hz
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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

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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

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

COP Tj = 12°C	6.87	5.40
Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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)

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

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	4.85 kW	4.38 kW
η_s	223 %	150 %
P_{rated}	4.85 kW	4.38 kW
SCOP	5.64	3.84
T_{biv}	2 °C	2 °C
TOL	2 °C	2 °C
$P_{dh} T_j = +2^{\circ}C$	4.85 kW	4.38 kW
$COP T_j = +2^{\circ}C$	3.96	2.24
$P_{dh} T_j = +7^{\circ}C$	3.12 kW	2.81 kW
$COP T_j = +7^{\circ}C$	4.99	3.12
$P_{dh} T_j = 12^{\circ}C$	2.73 kW	2.63 kW
$COP T_j = 12^{\circ}C$	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
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	4.85 kW	4.38 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	3.96	2.24
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W

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

PTO	13 W	13 W
PSB	13 W	13 W
PCK	13 W	13 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption 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 %
Prated	11.85 kW	11.06 kW
SCOP	3.87	3.03
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C

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

Pdh Tj = -7°C	7.17 kW	6.70 kW
COP Tj = -7°C	3.42	2.62
Pdh Tj = +2°C	4.48 kW	4.13 kW
COP Tj = +2°C	5.36	3.95
Pdh Tj = +7°C	2.90 kW	2.76 kW
COP Tj = +7°C	6.56	5.13
Pdh Tj = 12°C	2.72 kW	2.68 kW
COP Tj = 12°C	7.43	6.26
Pdh Tj = Tbiv	7.17 kW	6.70 kW
COP Tj = Tbiv	3.42	2.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.51 kW	4.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	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

Configure model	
Model name	AEROTOP HYBRID MINI EVO 07
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor 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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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 18 Mar 2022

P _{designh}	4.85 kW	4.38 kW
η_s	223 %	150 %
P _{rated}	4.85 kW	4.38 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 or P _{dh} T _j = T _{designh} if TOL < T _{designh}	4.85 kW	4.38 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.96	2.24
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	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 18 Mar 2022

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}	11.85 kW	11.06 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 18 Mar 2022

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

Model: NIMBUS M FLEX IN 7 NET

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

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	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}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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

Configure model	
Model name	ARIANEXT M FLEX IN 7 T LINK
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x230V 50Hz

Heating

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

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

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

Model: AEROTOP MONO BUILT-IN 07M-CR

Configure model

Model name	AEROTOP MONO BUILT-IN 07M-CR
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data

Power supply	3x230V 50Hz
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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

EN 14511-4

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	7.89 kW	7.45 kW
η_s	178 %	128 %
P _{rated}	7.89 kW	7.45 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 18 Mar 2022

Pdh Tj = Tbiv	6.98 kW	6.59 kW
COP Tj = Tbiv	3.10	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.73 kW	7.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	60 °C	60 °C
Poff	13 W	13 W
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