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Summary of		NIMBUS/ARIANEXT/AEROTOP/ENERGION 80 M - COMPACT		Reg. No.	ICIM-PDC-000115
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/ARIANEXT/AEROTOP/ENERGION 80 M - COMPACT				
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R32				
Mass of Refrigerant	1.4 kg				
Certification Date	05.07.2022				
Testing basis	Heat Pump KEYMARK rev9				

Model: NIMBUS COMPACT 80 M NET R32

Configure model	
Model name	NIMBUS COMPACT 80 M NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: NIMBUS COMPACT 80 M 2Z NET R32

Configure model	
Model name	NIMBUS COMPACT 80 M 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

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	+7°C/+12°C
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EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: NIMBUS COMPACT 80 M-T NET R32

Configure model	
Model name	NIMBUS COMPACT 80 M-T NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
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P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
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Cdh Tj = +12 °C	0.965	0.973
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COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: NIMBUS COMPACT 80 M-T 2Z NET R32

Configure model	
Model name	NIMBUS COMPACT 80 M-T 2Z NET R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

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	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

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Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ARIANEXT COMPACT 80 M 2Z LINK R32

Configure model	
Model name	ARIANEXT COMPACT 80 M 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

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	+7°C/+12°C
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SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
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P _{dc} T _j = 25°C	3.32 kW
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P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
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EN 14825

	Low temperature	Medium temperature
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T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.51
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
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Supplementary Heater: PSUP	2.86 kW	2.72 kW
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Domestic Hot Water (DHW)

Average Climate

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Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ARIANEXT COMPACT 80 M LINK R32

Configure model	
Model name	ARIANEXT COMPACT 80 M LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
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Complete power supply failure	passed
Defrost test	passed
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Cooling

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	+7°C/+12°C	+18°C/+23°C
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Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
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EN 14825

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TOL	-20 °C	-20 °C
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C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ARIANEXT COMPACT 80 M-T 2Z LINK R32

Configure model	
Model name	ARIANEXT COMPACT 80 M-T 2Z LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
$P_{designh}$	8.37 kW	7.62 kW
η_s	195 %	140 %
P_{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T_{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
$P_{dh} T_j = -7^{\circ}C$	7.40 kW	6.74 kW
$COP T_j = -7^{\circ}C$	3.10	2.29
$C_{dh} T_j = -7^{\circ}C$	0.994	0.995
$P_{dh} T_j = +2^{\circ}C$	4.54 kW	4.22 kW
$COP T_j = +2^{\circ}C$	4.80	3.51
$C_{dh} T_j = +2^{\circ}C$	0.986	0.989
$P_{dh} T_j = +7^{\circ}C$	2.94 kW	2.74 kW
$COP T_j = +7^{\circ}C$	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ARIANEXT COMPACT 80 M-T LINK R32

Configure model	
Model name	ARIANEXT COMPACT 80 M-T LINK R32
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: AEROTOP MONO 08.2 M-CRX 2Z

Configure model	
Model name	AEROTOP MONO 08.2 M-CRX 2Z
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: AEROTOP MONO 08.2 M-CRX 1Z

Configure model	
Model name	AEROTOP MONO 08.2 M-CRX 1Z
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: AEROTOP MONO 08.2 M-CR 2Z

Configure model	
Model name	AEROTOP MONO 08.2 M-CR 2Z
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: AEROTOP MONO 08.2 M-CR 1Z

Configure model	
Model name	AEROTOP MONO 08.2 M-CR 1Z
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ENERGION M COMPACT 80 2Z

Configure model	
Model name	ENERGION M COMPACT 80 2Z
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ENERGION M COMPACT 80

Configure model	
Model name	ENERGION M COMPACT 80
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ENERGION M COMPACT 80 T 2Z

Configure model	
Model name	ENERGION M COMPACT 80 T 2Z
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

	+7°C/+12°C
P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
Pdh Tj = 12°C	3.16 kW	3.28 kW
COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l

Model: ENERGION M COMPACT 80 T

Configure model	
Model name	ENERGION M COMPACT 80 T
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	5.80 kW
El input	1.67 kW	1.97 kW
COP	4.80	2.95

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Cooling

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 14511-2

	+7°C/+12°C	+18°C/+23°C
El input	2.26 kW	1.49 kW
Cooling capacity	7	7.00
EER	3.10	4.70

EN 14825

This information was generated by the HP KEYMARK database on 5 Jul 2022

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P _{designc}	7 kW
SEER	4.64
P _{dc} T _j = 35°C	7 kW
EER T _j = 35°C	3.1
P _{dc} T _j = 30°C	5.17 kW
EER T _j = 30°C	4.13
C _{dc} T _j = 30 °C	0.99
P _{dc} T _j = 25°C	3.32 kW
EER T _j = 25°C	4.89
C _{dc} T _j = 25 °C	0.98
P _{dc} T _j = 20°C	3.19 kW
EER T _j = 20°C	6.85
C _{dc} T _j = 20 °C	0.97
P _{off}	14 W
PTO	14 W
PSB	14 W
PCK	0 W
Annual energy consumption Q _{ce}	1381 kWh

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825

	Low temperature	Medium temperature
P _{designh}	8.37 kW	7.62 kW
η_s	195 %	140 %
P _{rated}	8.37 kW	7.62 kW
SCOP	4.95	3.57
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	7.40 kW	6.74 kW
COP T _j = -7°C	3.10	2.29
C _{dh} T _j = -7 °C	0.994	0.995
P _{dh} T _j = +2°C	4.54 kW	4.22 kW
COP T _j = +2°C	4.80	3.51
C _{dh} T _j = +2 °C	0.986	0.989
P _{dh} T _j = +7°C	2.94 kW	2.74 kW
COP T _j = +7°C	6.61	4.36

This information was generated by the HP KEYMARK database on 5 Jul 2022

Cdh Tj = +7 °C	0.969	0.978
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COP Tj = 12°C	8.15	6.50
Cdh Tj = +12 °C	0.965	0.973
Pdh Tj = Tbiv	7.40 kW	6.74 kW
COP Tj = Tbiv	3.10	2.29
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	0.994	0.995
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.86 kW	2.72 kW
Backup Heater	4.00 kW	4.00 kW
Annual energy consumption Qhe	3490 kWh	4405 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 5 Jul 2022

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	131 %
COP	3.10
Heating up time	01:03 h:min
Standby power input	38.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	233 l