

This information was generated by the HP KEYMARK database on 21 Jun 2022

[Login](#)

Summary of	Thermia Atlas 12	Reg. No.	012-C700006
Certificate Holder			
Name	Thermia		
Address	Snickaregatan 1	Zip	
City	Arvika	Country	Sweden
Certification Body	RISE CERT		
Subtype title	Thermia Atlas 12		
Heat Pump Type	Brine/Water and Water/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.4 kg		
Certification Date	02.03.2020		
Testing basis	HP Keymark Scheme Rules rev 7		

Model: ATLAS 12 400V

Configure model	
Model name	ATLAS 12 400V
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Brine/Water Heat Pump

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.24 kW	4.78 kW
El input	1.10 kW	1.68 kW
COP	4.75	2.85

Colder Climate

This information was generated by the HP KEYMARK database on 21 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	226 %	167 %
Prated	11.49 kW	10.48 kW
SCOP	5.86	4.39
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.96 kW	6.34 kW
COP Tj = -7°C	5.64	3.96
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.23 kW	3.86 kW
COP Tj = +2°C	6.48	4.91
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.72 kW	2.48 kW
COP Tj = +7°C	5.93	5.22
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	2.80 kW	2.77 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.49	5.06
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.91
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4838 kWh	5887 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 21 Jun 2022

η_s	222 %	162 %
Prated	11.49 kW	10.48 kW
SCOP	5.75	4.25
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.17 kW	9.27 kW
COP Tj = -7°C	4.82	3.24
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.19 kW	5.64 kW
COP Tj = +2°C	5.95	4.30
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.98 kW	3.63 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.81 kW	2.77 kW
COP Tj = 12°C	5.70	4.91
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP T_j = TOL or COP T_j = $T_{designh}$ if TOL < $T_{designh}$	4.38	2.91
WTOL	65 °C	65 °C
P _{off}	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Q _{he}	4131 kWh	5097 kWh

Water/Water Heat Pump

Heating

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

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.16 kW	12.54 kW
El input	1.56 kW	3.76 kW
COP	6.52	3.33

Colder Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	346 %	226 %
Prated	10.16 kW	12.54 kW
SCOP	8.86	5.84
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.15 kW	7.59 kW
COP Tj = -7°C	8.54	5.41
Cdh Tj = -7 °C	0.98	0.99

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = +2°C	3.74 kW	4.62 kW
COP Tj = +2°C	10.08	6.70
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.85 kW	3.76 kW
COP Tj = +7°C	8.77	6.47
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	3.83 kW	3.78 kW
COP Tj = 12°C	8.49	6.62
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2827 kWh	5291 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	334 %	217 %
Prated	10.16 kW	12.54 kW
SCOP	8.55	5.62
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.99 kW	11.10 kW
COP Tj = -7°C	6.95	4.20
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.47 kW	6.75 kW
COP Tj = +2°C	8.85	5.75
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.52 kW	4.34 kW
COP Tj = +7°C	10.21	6.70
Cdh Tj = +7 °C	0.96	0.98

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = 12°C	3.85 kW	3.75 kW
COP Tj = 12°C	8.73	6.41
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2454 kWh	4615 kWh

Model: ATLAS 12 DUO 400V

Configure model	
Model name	ATLAS 12 DUO 400V
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Brine/Water Heat Pump

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.24 kW	4.78 kW
El input	1.10 kW	1.68 kW
COP	4.75	2.85

Colder Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	226 %	167 %
Prated	11.49 kW	10.48 kW
SCOP	5.86	4.39
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.96 kW	6.34 kW
COP Tj = -7°C	5.64	3.96
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.23 kW	3.86 kW
COP Tj = +2°C	6.48	4.91
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.72 kW	2.48 kW
COP Tj = +7°C	5.93	5.22
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	2.80 kW	2.77 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.49	5.06
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.91
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4838 kWh	5887 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 21 Jun 2022

η_s	222 %	162 %
Prated	11.49 kW	10.48 kW
SCOP	5.75	4.25
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.17 kW	9.27 kW
COP Tj = -7°C	4.82	3.24
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.19 kW	5.64 kW
COP Tj = +2°C	5.95	4.30
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.98 kW	3.63 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.81 kW	2.77 kW
COP Tj = 12°C	5.70	4.91
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.91
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4131 kWh	5097 kWh

Water/Water Heat Pump

Heating

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

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.16 kW	12.54 kW
El input	1.56 kW	3.76 kW
COP	6.52	3.33

Colder Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	346 %	226 %
Prated	10.16 kW	12.54 kW
SCOP	8.86	5.84
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.15 kW	7.59 kW
COP Tj = -7°C	8.54	5.41
Cdh Tj = -7 °C	0.98	0.99

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = +2°C	3.74 kW	4.62 kW
COP Tj = +2°C	10.08	6.70
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.85 kW	3.76 kW
COP Tj = +7°C	8.77	6.47
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	3.83 kW	3.78 kW
COP Tj = 12°C	8.49	6.62
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2827 kWh	5291 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	334 %	217 %
Prated	10.16 kW	12.54 kW
SCOP	8.55	5.62
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.99 kW	11.10 kW
COP Tj = -7°C	6.95	4.20
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.47 kW	6.75 kW
COP Tj = +2°C	8.85	5.75
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.52 kW	4.34 kW
COP Tj = +7°C	10.21	6.70
Cdh Tj = +7 °C	0.96	0.98

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = 12°C	3.85 kW	3.75 kW
COP Tj = 12°C	8.73	6.41
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2454 kWh	4615 kWh

Model: ATLAS 12 230V

Configure model	
Model name	ATLAS 12 230V
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Brine/Water Heat Pump

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.24 kW	4.78 kW
El input	1.10 kW	1.68 kW
COP	4.75	2.85

Colder Climate

This information was generated by the HP KEYMARK database on 21 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	226 %	167 %
Prated	11.49 kW	10.48 kW
SCOP	5.86	4.39
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.96 kW	6.34 kW
COP Tj = -7°C	5.64	3.96
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.23 kW	3.86 kW
COP Tj = +2°C	6.48	4.91
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.72 kW	2.48 kW
COP Tj = +7°C	5.93	5.22
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	2.80 kW	2.77 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.49	5.06
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.91
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4838 kWh	5887 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 21 Jun 2022

η_s	222 %	162 %
Prated	11.49 kW	10.48 kW
SCOP	5.75	4.25
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.17 kW	9.27 kW
COP Tj = -7°C	4.82	3.24
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.19 kW	5.64 kW
COP Tj = +2°C	5.95	4.30
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.98 kW	3.63 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.81 kW	2.77 kW
COP Tj = 12°C	5.70	4.91
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.91
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4131 kWh	5097 kWh

Water/Water Heat Pump

Heating

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

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.16 kW	12.54 kW
El input	1.56 kW	3.76 kW
COP	6.52	3.33

Colder Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	346 %	226 %
Prated	10.16 kW	12.54 kW
SCOP	8.86	5.84
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.15 kW	7.59 kW
COP Tj = -7°C	8.54	5.41
Cdh Tj = -7 °C	0.98	0.99

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = +2°C	3.74 kW	4.62 kW
COP Tj = +2°C	10.08	6.70
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.85 kW	3.76 kW
COP Tj = +7°C	8.77	6.47
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	3.83 kW	3.78 kW
COP Tj = 12°C	8.49	6.62
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2827 kWh	5291 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	33 dB(A)	33 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	334 %	217 %
Prated	10.16 kW	12.54 kW
SCOP	8.55	5.62
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.99 kW	11.10 kW
COP Tj = -7°C	6.95	4.20
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.47 kW	6.75 kW
COP Tj = +2°C	8.85	5.75
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.52 kW	4.34 kW
COP Tj = +7°C	10.21	6.70
Cdh Tj = +7 °C	0.96	0.98

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = 12°C	3.85 kW	3.75 kW
COP Tj = 12°C	8.73	6.41
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2454 kWh	4615 kWh

Model: ATLAS 12 DUO 230V

Configure model	
Model name	ATLAS 12 DUO 230V
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Brine/Water Heat Pump

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.24 kW	4.78 kW
El input	1.10 kW	1.68 kW
COP	4.75	2.85

Colder Climate

This information was generated by the HP KEYMARK database on 21 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	226 %	167 %
Prated	11.49 kW	10.48 kW
SCOP	5.86	4.39
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.96 kW	6.34 kW
COP Tj = -7°C	5.64	3.96
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.23 kW	3.86 kW
COP Tj = +2°C	6.48	4.91
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	2.72 kW	2.48 kW
COP Tj = +7°C	5.93	5.22
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	2.80 kW	2.77 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = 12°C	5.49	5.06
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.91
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4838 kWh	5887 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825		
	Low temperature	Medium temperature

This information was generated by the HP KEYMARK database on 21 Jun 2022

η_s	222 %	162 %
Prated	11.49 kW	10.48 kW
SCOP	5.75	4.25
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.17 kW	9.27 kW
COP Tj = -7°C	4.82	3.24
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	6.19 kW	5.64 kW
COP Tj = +2°C	5.95	4.30
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.98 kW	3.63 kW
COP Tj = +7°C	6.50	5.02
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	2.81 kW	2.77 kW
COP Tj = 12°C	5.70	4.91
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	11.49 kW	10.48 kW
COP Tj = Tbiv	4.38	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.49 kW	10.48 kW

This information was generated by the HP KEYMARK database on 21 Jun 2022

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.38	2.91
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4131 kWh	5097 kWh

Water/Water Heat Pump

Heating

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

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.16 kW	12.54 kW
El input	1.56 kW	3.76 kW
COP	6.52	3.33

Colder Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	346 %	226 %
Prated	10.16 kW	12.54 kW
SCOP	8.86	5.84
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.15 kW	7.59 kW
COP Tj = -7°C	8.54	5.41
Cdh Tj = -7 °C	0.98	0.99

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = +2°C	3.74 kW	4.62 kW
COP Tj = +2°C	10.08	6.70
Cdh Tj = +2 °C	0.96	0.98
Pdh Tj = +7°C	3.85 kW	3.76 kW
COP Tj = +7°C	8.77	6.47
Cdh Tj = +7 °C	0.96	0.97
Pdh Tj = 12°C	3.83 kW	3.78 kW
COP Tj = 12°C	8.49	6.62
Cdh Tj = +12 °C	0.97	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2827 kWh	5291 kWh

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	334 %	217 %
Prated	10.16 kW	12.54 kW
SCOP	8.55	5.62
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.99 kW	11.10 kW
COP Tj = -7°C	6.95	4.20
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.47 kW	6.75 kW
COP Tj = +2°C	8.85	5.75
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.52 kW	4.34 kW
COP Tj = +7°C	10.21	6.70
Cdh Tj = +7 °C	0.96	0.98

This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = 12°C	3.85 kW	3.75 kW
COP Tj = 12°C	8.73	6.41
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	10.16 kW	12.54 kW
COP Tj = Tbiv	6.52	3.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.16 kW	12.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.52	3.33
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2454 kWh	4615 kWh