

Page 1 of 19

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

Login

Summary of	Thermia Atlas 18	Reg. No.	012-C700008		
Certificate Holder	Certificate Holder				
Name	Thermia				
Address	Snickaregatan 1	Zip			
City	Arvika	Country	Sweden		
Certification Body	RISE CERT				
Subtype title	Thermia Atlas 18				
Heat Pump Type	Brine/Water and Water/Water				
Refrigerant	R410A				
Mass of Refrigerant	1.95 kg				
Certification Date	02.03.2020				
Testing basis	HP Keymark Scheme Rules rev 7				



Model: ATLAS 18 400V

Configure model		
Model name	ATLAS 18 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	7.82 kW	15.68 kW	
El input	1.57 kW	5.19 kW	
СОР	4.98	3.02	

Average Climate



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
η_{s}	228 %	168 %	
Prated	15.05 kW	15.68 kW	
SCOP	5.90	4.40	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7° C	13.31 kW	13.87 kW	
COP Tj = -7°C	5.04	3.38	
Cdh Tj = -7 °C	0.99	1.00	
Pdh Tj = +2°C	8.10 kW	8.44 kW	
COP Tj = +2°C	5.91	4.42	
Cdh Tj = +2 °C	0.99	0.99	
Pdh Tj = +7°C	5.21 kW	5.43 kW	
$COP Tj = +7^{\circ}C$	6.65	5.10	
Cdh Tj = +7 °C	0.98	0.99	
Pdh Tj = 12°C	4.41 kW	4.34 kW	





COP Tj = 12°C	6.49	5.25
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	15.05 kW	15.68 kW
COP Tj = Tbiv	4.69	3.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.05 kW	15.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	3.02
WTOL	65 °C	65 °C
Poff	15 W	15 W
РТО	16 W	16 W
PSB	16 W	16 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5270 kWh	7367 kWh

Colder Climate

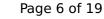
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	

EN 14825		
	Low temperature	Medium temperature





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η_s	238 %	174 %
Prated	15.05 kW	15.68 kW
SCOP	6.15	4.55
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.11 kW	9.49 kW
COP Tj = -7°C	5.93	4.22
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	5.54 kW	5.78 kW
COP Tj = +2°C	6.61	4.97
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.42 kW	4.35 kW
$COPTj = +7^{\circ}C$	6.58	5.32
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.39 kW	4.36 kW
COP Tj = 12°C	6.30	5.36
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	15.05 kW	15.68 kW
COP Tj = Tbiv	4.69	3.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.05 kW	15.68 kW





COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	3.02
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6027 kWh	8487 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 pa	
Defrost test	passed





EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.52 kW	17.55 kW
El input	1.87 kW	4.59 kW
СОР	6.68	3.82

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825			
	Low	temperature	Medium temperature
η_{s}	319 %	,	223 %
Prated	12.52	kW	17.55 kW
SCOP	8.18		5.78
Tbiv	-10 °C		-10 °C
TOL	-10 °C		-10 °C
Pdh Tj = -7°C	11.07	kW	15.53 kW
COP Tj = -7°C	7.10		4.23
Cdh Tj = -7 °C	0.99		1.00





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Pdh Tj = +2°C	6.74 kW	9.45 kW
$COP Tj = +2^{\circ}C$	8.44	5.84
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	5.85 kW	6.08 kW
$COP Tj = +7^{\circ}C$	8.98	6.90
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	5.89 kW	5.72 kW
COP Tj = 12°C	9.30	7.07
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.52 kW	17.55 kW
COP Tj = Tbiv	6.68	3.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	17.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.68	3.82
WTOL	65 °C	65 °C
Poff	15 W	15 W
РТО	16 W	16 W
PSB	16 W	16 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3160 kWh	6273 kWh
1		



Colder Climate

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

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	332 %	232 %
Prated	12.52 kW	17.55 kW
SCOP	8.49	6.01
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.58 kW	10.62 kW
COP Tj = -7 °C	8.34	5.49
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = $+2$ °C	5.86 kW	6.47 kW
COP Tj = +2°C	9.06	6.68
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = +7°C	5.88 kW	5.72 kW
COP Tj = +7°C	9.26	7.08
Cdh Tj = +7 °C	0.97	0.98



Page 10 of 19

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Pdh Tj = 12°C	5.87 kW	5.75 kW
COP Tj = 12°C	9.12	7.29
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	12.52 kW	17.55 kW
COP Tj = Tbiv	6.68	3.82
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.52 kW	17.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	6.68	3.82
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3633 kWh	7199 kWh



Model: ATLAS 18 DUO 400V

Configure model		
Model name	ATLAS 18 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	7.82 kW	15.68 kW
El input	1.57 kW	5.19 kW
СОР	4.98	3.02

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	228 %	168 %
Prated	15.05 kW	15.68 kW
SCOP	5.90	4.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.31 kW	13.87 kW
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Pdh Tj = +7°C	5.21 kW	5.43 kW
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Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	4.41 kW	4.34 kW



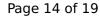


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Colder Climate

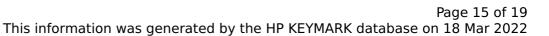
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)

EN 1482	25	
	Low temperature	Medium temperature





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Water/Water Heat Pump

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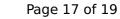


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	Low temperature	Medium temperature
Heat output	12.52 kW	17.55 kW
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$$\operatorname{Page}\ 17$$ of 19 This information was generated by the HP KEYMARK database on 18 Mar 2022

	TR database on 10 mar 2022
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8.44	5.84
0.98	0.99
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8.98	6.90
0.98	0.98
5.89 kW	5.72 kW
9.30	7.07
0.97	0.98
12.52 kW	17.55 kW
6.68	3.82
12.52 kW	17.55 kW
6.68	3.82
65 °C	65 °C
15 W	15 W
16 W	16 W
16 W	16 W
o w	0 W
Electricity	Electricity
0.00 kW	0.00 kW
3160 kWh	6273 kWh
	6.74 kW 8.44 0.98 5.85 kW 8.98 0.98 5.89 kW 9.30 0.97 12.52 kW 6.68 12.52 kW 6.68 12.52 kW 16 W 16 W 16 W 10 W Electricity 0.00 kW



Colder Climate

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

EN 12102-1 Low temperature Medium temperature Sound power level indoor 37 dB(A) 37 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	332 %	232 %	
Prated	12.52 kW	17.55 kW	
SCOP	8.49	6.01	
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Poff	15 W	15 W
РТО	16 W	16 W
PSB	16 W	16 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3633 kWh	7199 kWh