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

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
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
COP Tj = +7°C	6.58	5.32
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.39 kW	4.36 kW





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 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW			
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	COP Tj = 12°C	6.30	5.36
COP Tj = Tbiv 4.69 3.02 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	15.05 kW	15.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	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 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.05 kW	15.68 kW
Poff 15 W 15 W PTO 16 W 16 W PSB 16 W 0 W PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	3.02
PTO 16 W 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	WTOL	65 °C	65 °C
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	Poff	15 W	15 W
PCK 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	РТО	16 W	16 W
Supplementary Heater: Type of energy input Electricity Electricity Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	16 W	16 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	PCK	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 6027 kWh 8487 kWh	Supplementary Heater: PSUP	0.00 kW	0.00 kW
	Annual energy consumption Qhe	6027 kWh	8487 kWh

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





This information was gene	•	ŕ
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
$COPTj = +7^{\circ}C$	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
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	5270 kWh	7367 kWh

Water/Water Heat Pump

Heating

EN 14511-4	
Charting and an arcting took	d
Starting and operating test	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure pas	
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	

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	
332 %	232 %	
12.52 kW	17.55 kW	
8.49	6.01	
-22 °C	-22 °C	
-22 °C	-22 °C	
7.58 kW	10.62 kW	
8.34	5.49	
0.98	0.99	
	Low temperature 332 % 12.52 kW 8.49 -22 °C -22 °C 7.58 kW 8.34	





	TIT GULLBUSE OII ZI JUII ZOZZ
5.86 kW	6.47 kW
9.06	6.68
0.97	0.98
5.88 kW	5.72 kW
9.26	7.08
0.97	0.98
5.87 kW	5.75 kW
9.12	7.29
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
3633 kWh	7199 kWh
	5.86 kW 9.06 0.97 5.88 kW 9.26 0.97 5.87 kW 9.12 0.97 12.52 kW 6.68 12.52 kW 6.68 65 °C 15 W 16 W 16 W 0 W Electricity 0.00 kW



Average 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	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
Pdh Tj = +2°C	6.74 kW	9.45 kW
COP Tj = +2°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°C	8.98	6.90
Cdh Tj = +7 °C	0.98	0.98



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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



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

Colder 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}	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
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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
COP Tj = +7°C	6.58	5.32
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.39 kW	4.36 kW



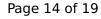


		<u> </u>
COP Tj = 12°C	6.30	5.36
Cdh Tj = +12 °C	0.98	0.98
Pdh Tj = Tbiv	15.05 kW	15.68 kW
COP Tj = Tbiv	4.69	3.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.05 kW	15.68 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.69	3.02
WTOL	65 °C	65 °C
Poff	15 W	15 W
РТО	16 W	16 W
PSB	16 W	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	6027 kWh	8487 kWh

Average Climate

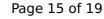
EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	

EN 1482	25	
	Low temperature	Medium temperature





This information was gene	•	ŕ
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
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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
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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	0 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

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	

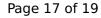


EN 14511-2			
Low temperature Medium temperature			
Heat output	12.52 kW	17.55 kW	
El input	1.87 kW	4.59 kW	
СОР	6.68	3.82	

Colder Climate

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

	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





This information was gener	ated by the Hi KETMA	TRE database on 21 Juli 2022
Pdh Tj = +2°C	5.86 kW	6.47 kW
COPTj = +2°C	9.06	6.68
Cdh Tj = +2 °C	0.97	0.98
Pdh Tj = $+7^{\circ}$ C	5.88 kW	5.72 kW
$COPTj = +7^{\circ}C$	9.26	7.08
Cdh Tj = +7 °C	0.97	0.98
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
РТО	16 W	16 W
PSB	16 W	16 W
PCK	0 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
t	1	



Average Climate

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

EN 14825			
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Cdh Tj = +2 °C	0.98	0.99	
Pdh Tj = +7°C	5.85 kW	6.08 kW	
COP Tj = +7°C	8.98	6.90	
Cdh Tj = +7 °C	0.98	0.98	



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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	0 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