

# Thermia Athena H Athena HC



## Athena H / Athena HC

Thermia Athena H and HC are air source heat pumps featuring inverter technology for people who want the best possible combination of quality and comfort. These heat pumps are perfect for ensuring that the home is always warm and cosy, and that there is plenty of hot water for the whole family, all year round at a low cost, even when it's really cold.

Energy is collected from the outdoor air and is used to heat hot water and hydronic heating systems, delivering efficient energy savings at temperatures as low as -20 °C. Inverter technology ensures outstanding annual efficiency, with a SCOP of 4.9\*. The inverter-controlled compressor constantly adjusts the heat load according to the current heat demand.

Inverter and TWS technology make Athena the fastest and most cost-efficient hot water producer in its segment, delivering 417 liters\*\* of domestic hot water at 40 °C. With one of the lowest sound levels on the market, Athena can also be placed wherever it's most convenient, without worrying about sound issues.

Athena HC has a built-in cooling function. This ensures a pleasant indoor climate, even during the hottest period of the year.

Athena is an excellent choice for new-build houses and provides the opportunity to meet additional energy needs, such as a swimming pool. It is also ideal for retrofitting projects, where these new units are capable of meeting high energy demands.

Athena is available in two output sizes (8-14 kW and 8-18 kW) and consists of two parts: the heat pump itself, which is installed outdoors, and an indoor unit. You can choose from four versions of the indoor unit, each with different features. The choice of unit depends on the setup of your heating system, and what is required to ensure maximum comfort.

The indoor unit features a modern design with an elegant glass panel, along with smart and intuitive control via a color touchscreen. Our Thermia Online solution is included as part of the package and enables you to both control and monitor your Athena heat pump via a smartphone or computer.



\* SCOP 4.87 for Athena 14 HC according to EN14825 (average climate, underfloor heating).

\*\* 417 liters of water applies to Athena 14H/14HC/18H/18HC with Total 300L, according to EN16147 (average climate) in comfort mode.

# Technical data Athena H Athena HC

## Indoor unit



W: 598mm  
D: 704mm  
H: 1 863mm



W: 598mm  
D: 704mm  
H: 1 863mm



W: 598mm  
D: 704mm  
H: 1 453mm



W: 380mm  
D: 204mm  
H: 600mm

## Outdoor unit



### ATHENA TOTAL 300L

- Intelligent Controller
- Immersion heater (3/6/9/kW 3~400 V)
- Optimum controlled circulation pump Class A
- Three way valve for heating or hot water production
- Hot water tank, 300 litre

### ATHENA TOTAL EQ

- Intelligent Controller
- Immersion heater (3/6/9/kW 3~400 V)
- Optimum controlled circulation pump Class A
- Three way valve for heating or hot water production
- Hot water tank, 180 litre
- Total EQ feature extra 60 liters volume tank, 12 liters expansion vessel and an additional circulation pump.

### ATHENA TOTAL COMPACT

- Intelligent Controller
- Immersion heater (3/6/9/kW 3~400 V)
- Optimum controlled circulation pump Class A
- Three way valve for heating or hot water production
- Hot water tank, 180 litre

### STANDARD

- Intelligent Controller

### ATHENA 14 H

- 7,85-13,98 kW
- 3~400 V

### ATHENA 18 H

- 7,85-17,5 kW
- 3~400 V

### ATHENA 14 HC

- 7,85-13,98 kW
- 3~400 V
- Active cooling

### ATHENA 18 HC

- 7,85-17,5 kW
- 3~400 V
- Active cooling

Athena H / Athena HC			14 H	18 H	14 HC	18 HC
<b>Heating capacity</b>	Min-max <sup>1</sup>	kW	7,85-13,98	7,85-17,5	7,85-13,98	7,85-17,5
<b>Refrigerant</b>	Type		R410A		R410A	
	Amount <sup>2</sup>	kg	4,7		5,5	
	GWP	tCO <sub>2</sub>	9,81		11,48	
<b>Compressor</b>	Type		Inverter-controlled, Scroll		Inverter-controlled, Scroll	
<b>Electrical data 3~N, 50Hz Outdoor unit</b>	Main supply	V	400		400	
	Max working power, compressor	kW	5,5	7,1	5,5	7,1
	Auxiliary heater <sup>3</sup>	kW	8,8		8,8	
	Fuse <sup>3</sup>	A	16		16	
<b>Electrical data 3~N, 50Hz Indoor unit</b>	Main supply	V	400		400	
	Auxiliary heater, 3 steps	kW	3/6/9		3/6/9	
	Fuse	A	16 (16+16) <sup>4</sup>		16 (16+16) <sup>4</sup>	
	<b>Performance</b>	A7/W35 / A7/W65	kW	10,8 / 13,98	12,85 / 17,5	10,8 / 13,98
	A-7/W35 / A-7/W65	kW	10,14 / 11,06	12,86 / 14,3	10,14 / 11,06	12,86 / 14,3
	COP A7/W35		5,09		5,09	
	SCOP (average climate) floor heating		4,7	4,63	4,87	4,76
	SCOP (average climate) radiator		3,65	3,59	3,74	3,67
	SCOP (cold climate) floor heating		4,2	4,05	4,25	4,08
	SCOP (cold climate) radiator		3,22	3,18	3,25	3,2
<b>Energy class - system</b>	Floor heating (35°C)/Radiator (55°C)		A+++/A++		A+++/A++	
<b>Energy class - product</b>	Floor heating (35°C)/Radiator (55°C)		A+++/A++		A+++/A++	
	Domestic hot water / Declared load profile		A/XL		A/XL	
<b>Hot water performance</b>	Volume 40°C hot water	l	254 <sup>5</sup> /417 <sup>6</sup>		254 <sup>5</sup> /417 <sup>6</sup>	
	Efficency of hot water cylinder		102 <sup>6</sup> /100 <sup>8</sup>		102 <sup>6</sup> /100 <sup>8</sup>	
<b>Operating range (outdoor)</b>	Heating/Domestic hot water	°C	-20 ~ +37		-20 ~ +37	
	Cooling	°C	Not available		+15 ~ +37	
<b>Max temperature</b>	Heating circuit	°C	65		65	
<b>Sound power level</b>	Normal operation – EN12102 – A7/W65	dB(A)	55		55	
	Max	dB(A)	63/66		63/66	
<b>Sound pressure level</b>	1/5/10 m	dB(A)	48/32/28		48/32/28	
<b>Weight Outdoor unit</b>		kg	176,5 kg		188 kg	
<b>Weight Indoor unit</b>	Standard	kg	11,4 kg		11,4 kg	
	Total 300L	kg	123 kg		123 kg	
	Total EQ	kg	147,5 kg		147,5 kg	
	Total Compact	kg	96,5 kg		96,5 kg	
<b>Dimensions</b>	Outdoor unit (WxDxH)	mm	1 490 x 593 x 1 045		1 490 x 593 x 1 045	

1) Minimum power corresponds to part load at A7/W35 and maximum power corresponds to full compressor speed at A7/W65

2) The refrigerant circuit is hermetically sealed and subject to the F-gas directive. Global Warming Potential (GWP) for R410A according to EC 517/2014 is 2088, which corresponds to 9.81 tCO<sub>2</sub>e for Athena H, Global Warming Potential (GWP) for R410A according to EC 517/2014 is 2088, corresponding to 11.48 tCO<sub>2</sub>e for Athena HC.

3) The auxiliary heater in the outdoor unit and compressor cannot run at the same time. The auxiliary heater in the outdoor unit can only be started at low outdoor temperatures and when the compressor is not running.

4) For Athena Standard, the auxiliary heater in the outdoor unit and the compressor can run simultaneously.

5) Hot water performance according to EN16147, V40 according to XL cycle in average climate, with the controller set to comfort mode and Total Compact/Total EQ

6) Hot water performance according to EN16147, V40 according to XL cycle in average climate, with the controller set to comfort mode and Total 300L.

7) Hot water performance according to EN16147, V40 according to XL cycle in average climate, with the controller set to comfort mode and Total Compact/Total EQ

8) Hot water performance according to EN16147, V40 according to XL cycle in average climate, with the controller set to comfort mode and Total 300L