

Thermia Athena H Athena HC



Exceptional quality and comfort

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

The Athena heat pumps are extremely high-performing and work at temperatures as low as -20 °C, collecting energy from the outdoor air and using it to heat hot water and hydronic heating systems,

The inverter-controlled compressor constantly adjusts the heat load according to the current heat demand and, together with its EVI (Enhanced Vapor Injection) technology, results in a SCOP of 4.87*.

In addition, its TWS** (Tap Water Stratification) technology helps the Athena deliver large volumes of hot water extremely fast. It can produce 417 litres*** of domestic hot water at 40 °C.

With one of the lowest sound levels on the market, the Athena can be placed wherever it's most convenient, without worrying about sound issues.

The Athena HC also has a built-in cooling function. This ensures a pleasant indoor climate, even during the hottest periods of the year. The Athena heat pump is an excellent choice for both new-build houses and retrofitting projects. To get greater output, Athena heat pumps can be linked together. For example, by connecting 4 Athena units together you can get a total heat output of up to 70 kW at +7°C.

The 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.

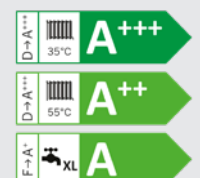
The indoor unit has a very modern design with an elegant glass panel, along with smart and intuitive control via a colour touchscreen. Thermia Online is included as part of the package and enables you to monitor and control your Athena heat pump from your smartphone via an app. Spot price control is also possible through the free Smart Price add-on service.



System:



Product:



Read more about the energy class in footnotes 5–6 on the next page.

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
Heating capacity	Min-max ¹	kW	7,85-13,98	7,85-17,5	7,85-13,98	7,85-17,5
Refrigerant	Type		R410A		R410A	
	Amount ²	kg	4,7		5,5	
	GWP	tCO ₂	9,81		11,48	
Compressor	Type		Inverter-controlled, Scroll		Inverter-controlled, Scroll	
Electrical data 3~N, 50Hz Outdoor unit	Main supply	V	400		400	
	Max working power, compressor	kW	5,5	7,1	5,5	7,1
	Auxiliary heater ³	kW	8,8		8,8	
	Fuse ³	A	16		16	
Electrical data 3~N, 50Hz Indoor unit	Main supply	V	400		400	
	Auxiliary heater, 3 steps	kW	3/6/9		3/6/9	
	Fuse	A	16 (16+16) ⁴		16 (16+16) ⁴	
Performance	A7/W35 / A7/W65	kW	10,8 / 13,98	12,85 / 17,5	10,8 / 13,98	12,85 / 17,5
	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
Energy class - system⁵	Floor heating (35°C)/Radiator (55°C)		A+++/A++		A+++/A++	
Energy class - product⁶	Floor heating (35°C)/Radiator (55°C)		A+++/A++		A+++/A++	
	Domestic hot water / Declared load profile		A/XL		A/XL	
Hot water performance	Volume 40°C hot water	l	254 ⁷ /417 ⁸		254 ⁷ /417 ⁸	
	Efficiency of hot water cylinder		102 ⁹ /100 ¹⁰		102 ⁹ /100 ¹⁰	
Operating range (outdoor)	Heating/Domestic hot water	°C	-20 ~ +37		-20 ~ +37	
	Cooling	°C	Not available		+15 ~ +37	
Max temperature	Heating circuit	°C	65		65	
Sound power level	Normal operation – EN12102 – A7/W55	dB(A)	55		55	
	Max	dB(A)	63/66		63/66	
Sound pressure level	1/5/10 m	dB(A)	48/32/28		48/32/28	
Weight Outdoor unit		kg	176,5 kg		188 kg	
Weight Indoor unit	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	
Dimensions	Outdoor unit (WxDxH)	mm	1 490 x 593 x 1 045		1 490 x 593 x 1 045	

* SCOP 4,87 refers to the Athena 14 HC's seasonal coefficient of performance according to the measurement standard EN 14825, based on underfloor heating in an average climate.

** TWS (Tap Water Stratification), our patented technology developed to ensure that stored heat is always used optimally

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

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 tCO₂e for Athena H. Global Warming Potential (GWP) for R410A according to EC 517/2014 is 2088,

corresponding to 11,48 tCO₂e 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) When the heat pump is part of an integrated system. According to Eco-design Directive 811/2013

6) When the heat pump is the sole heat generator and the built-in controller is not included. According to Eco-design Directive 811/2013.

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

9) 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

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