MEET OUR BEST AIR SOURCE HEAT PUMP

FOR HEATING, COOLING
AND HOT WATER

WHISPERING PERFORMANCE DOWN TO -20 °C

Thermia Athena is the new leader in our efficient range of air source heat pumps. It is powerful enough to provide a comfortable indoor climate for any single-family home, and can even be configured for multi-home buildings. Athena combines easy installation and hassle-free operation for heating, cooling and hot water with energy savings of up to 75%.

In fact, Thermia Athena quietly and effectively provides a comfortable indoor climate – not too cold, nor too warm – and plenty of domestic hot water at all times, all year round. Running effectively, even at temperatures down to -20 °C.

SUSTAINABLE ENERGY FOR YOUR HOME

Thermia Athena is an inverter-driven air source heat pump that keeps your indoor climate in the comfort zone anywhere in Europe with a steady supply of heating, cooling and hot water. It is a green solution that prevents excess energy consumption and will provide a green footprint from your home for many years to come:

- Reduce greenhouse gas emissions by 75% or more
- Effective operation at temperatures as low as -20 °C
- Ultra-low low sound level of 32 dB(A)
- Plenty of domestic hot water (300 liters)

With a discreet Scandinavian design that will fit seamlessly into any contemporary home, Thermia Athena is easy to install – both outdoors and indoors – and will give you hassle-free service for many years.

Thermia Athena is the pinnacle of our versatile air source heat pump family, designed with the positive experiences of decades of Thermia heat pumps.

GREEN CLEAN AND COMFORTABLE

Air source heat pumps have the potential to reduce CO_2 emissions from your home by 75% or more. In this way, Thermia Athena can be your individual contribution to climate protection – while saving you money at the same time.

At the heart of the new heat pump is the intelligent control system with an algorithm to ensure the lowest possible running cost – while maintaining the desired temperature for radiators, floor heating and mixed systems, hot water and cooling or additional heating sources.

EFFECTIVE DOWN TO -20 °C

ULTRA-LOW SOUND LEVEL

SCANDINAVIAN **DESIGN**

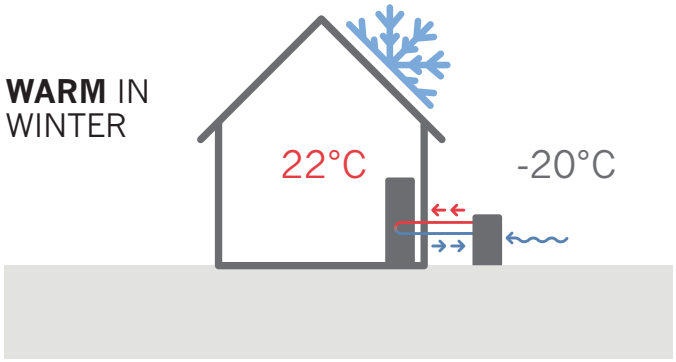
OUT OF THIN AIR

An air source heat pump operates on a simple principle: it moves energy from ambient air to water in your heating system via a refrigeration process. The energy stored in the air is simply extracted and can be used for heating, cooling and hot water. In this way, nature provides us with perfect indoor comfort in an economical way with nearly zero negative impact on the environment.

STAY IN THE **COMFORT ZONE**

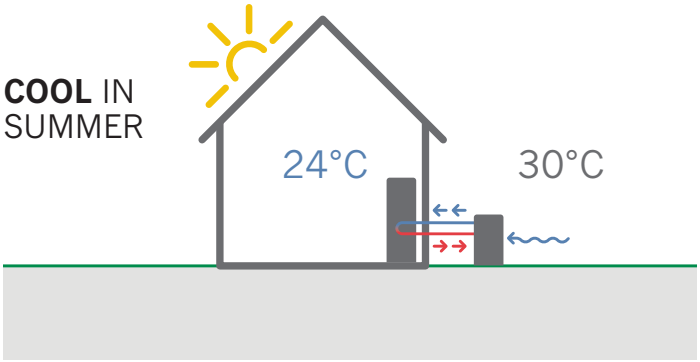
Thermia Athena is an inverter-driven heat pump with EVI (Enhanced Vapor Injection) technology. The integrated inverter function levels out weather changes and seasonal fluctuations. EVI ensures efficiency even when the weather is extreme. This means that Athena will continue to perform effectively at sub-zero temperatures as low as -20°C.

WARM IN WINTER



Thermia Athena concentrates low-grade heat from the atmosphere to raise the temperature. The heat is then transferred to the energy distribution system in the house – usually radiators, hydronic floor heating or fan coils – as well as for hot water consumption.

COOL IN SUMMER



In summer, the process is reversed. The heat is absorbed from the house and removed, similar to the way your refrigerator works.

MORE **HOT WATER.** FASTER

Thermia Athena includes a 300-liter hot water tank with Tap Water Stratification (TWS) technology. This proprietary Thermia technology provides 15% more hot water, significantly faster and at higher temperatures than traditional alternatives. It also reduces the cost of hot water production and improves the heat pump's seasonal performance.

TAILOR-MADE SOLUTIONS

Thermia Athena is ideal for many different types of heating systems, such as floor heating, radiators or fan coils. Four different indoor units offer flexibility to match different energy demands and are equally suited to both renovations and new-builds. The choice of indoor unit depends on the set-up of your heating system to ensure that you never pay for more than you actually need.

LIVING COMFORT IS **TO HAVE, NOT TO HEAR**

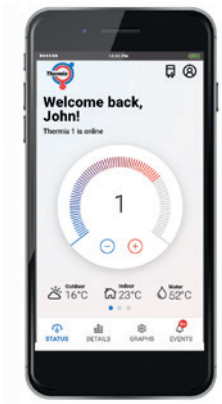
With Thermia Athena, the comfortable atmosphere will silently make its presence felt. Thanks to an excellent acoustic performance of 32 dB(A), the outdoor unit can be placed wherever it is most convenient, without worrying about noise affecting neighbors.

CONTROL YOUR HEAT PUMP **FROM ANYWHERE**

Thanks to Thermia Online, you can monitor and control your heat pump effectively from anywhere. Either on the easy-to-use, integrated color display or via your smartphone, computer or tablet.

The ‘Thermia Online’ app lets you can check the performance, regulate the temperature or receive a notification if anything unexpected happens. Thermia Online also allows your installer to check diagnostics data, respond promptly to notifications or access a live feed on system performance.

The Thermia Online app is available for both Android and iPhone.

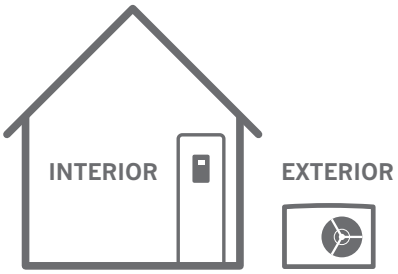


ANDROID APP ON Google play

Available on the iPhone App Store

PLUG AND PLAY

Two pipes and two cables are all you need for a complete installation. Thermia Athena is a versatile system, compatible with a wide range of additional products such as solar panels, back-up boilers or a swimming pool.



EXTERIOR


Thermia Athena	Athena 14 HC	Athena 18 HC
Available outputs	7.8 - 14 kW	7.8 -17.5 kW
Function*	Heating / Cooling	Heating / Cooling
SCOP** 14825 (Average climate) Low temp	4.9	4.8
Hot water performance Volume 40°C hot water (liters)***	417	417
Sound pressure level dB(A) 5m distance, nominal operation A7W35	32	32

Energy class according to Eco-Design Directive 811/2013:

A+++ When the heat pump is part of an integrated system

A+++ When the heat pump is the sole heat generator

With an impressive coefficient of performance (SCOP*) of 4.9, Thermia Athena delivers maximum energy savings. Athena is a stable and reliable air source heat pump with the ability to perform effectively at temperatures as low as -20°C.

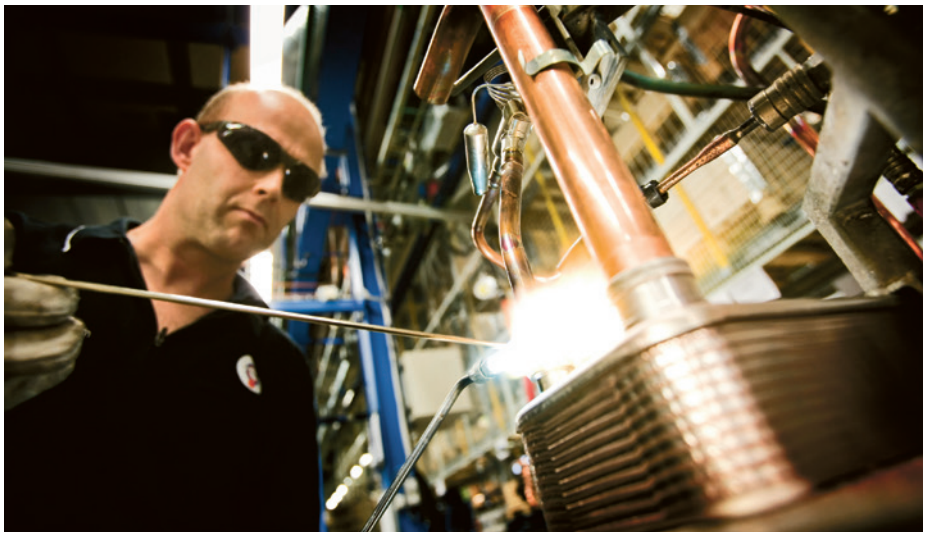
Pre-fabricated indoor kits ensure quick, aesthetic and high-quality installation with no individual parts placed outside the cabinet.



INTERIOR

Thermia Athena	Total Compact	Total 300L	Total EQ
Intelligent controller	•	•	•
Hot water tank 180 l	•		•
Hot water tank 300 l		•	
Optimum controlled Class A circulation pump	•	•	•
Immersion heater	•	•	•
Three-way valve for heating or hot water production	•	•	•
Extra 60-liter tank, 12 liters expansion vessel and an additional circulation pump			•

* Athena is also available with heating function only..**SCOP (Seasonal Coefficient of Performance according to norm EN14825) is a new measurement that shows how effective the heat pump is on an annual basis under all seasonal weather conditions. This provides a realistic picture that makes it much easier to compare heat pumps across producers. It gives a much more accurate illustration of efficiency than the COP (Coefficient of Performance) value, which is based on a single air and heating temperature and just one measuring point.
*** Hot water performance according to EN16147, V40 according to XL cycle in average climate, with the controller set to comfort mode and Total 300L



THERMIA. FIRST IN GREEN ENERGY. SINCE 1923.

PIONEERING HEAT PUMPS

For 50 years, we have dedicated all our resources and knowledge to developing and endlessly refining one product: the heat pump. Our focus on geothermal energy has given us world-leading knowledge in heat pump technology.

ENGINEERED WITH PASSION

Developing truly sustainable renewable energy solutions can only be achieved with passionate, dedicated and uncompromising experts. Some of Europe's most highly qualified engineers can be found in our own R&D center.

BORN IN SWEDEN

All our products are designed, manufactured and tested in Sweden using the latest technology and the highest quality components. All components inside our ground source heat pumps are made in Europe by world-leading industry specialists.

Thermia

www.thermia.com