

[AIRA]



The Aira Heat Pump Fact Sheet

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A smarter way to heat your home

Introducing the Aira Heat Pump

Set to redefine the category, Aira is making heat pump technology available to all with its monthly payment plans and the new Aira Heat Pump, which uses advanced technology to deliver a seamless customer experience.

This guide includes all the tech specifications and design details for the Aira Heat Pump system, comprising an outdoor unit, indoor unit, buffer tank, a thermostat and app. It also outlines the smart features included in the new and advanced Aira Intelligence.

Read on to find out why the Aira Heat Pump solution is the way forward for heating the home and hot water.

Outdoor Unit

Draws in fresh air and uses compression to create energy to heat your home and water. The outdoor unit uses the non-toxic, high-performance natural R290 refrigerant and boasts a 15 Year Performance, Product and Installation Warranty.

- ✓ High energy efficiency class A+++
- ✓ 15 Year Aira Comfort Guarantee
- ✓ Aira's signature Scandi design
- ✓ Low maintenance



6 KW OUTDOOR UNIT

Household size: <150 sq mts
Dimensions [cm]: 121.6 x 100.5 x 42.5 [w/h/d]

8 KW OUTDOOR UNIT

Household size: 150-200 sq mts
Dimensions [cm]: 121.6 x 100.5 x 42.5 [w/h/d]



12 KW OUTDOOR UNIT

Household size: >200 sq mts
Dimensions [cm]: 115.2 x 150.3 x 41.6 [w/h/d]

Indoor Unit

Stores water that is heated by the outdoor unit and distributes it to the home's taps and showers. This unit gathers all the system information to optimise the customer experience.

- ✓ High energy efficiency class A+++
- ✓ 15 Year Aira Comfort Guarantee
- ✓ Aira's signature Scandi design
- ✓ Low maintenance
- ✓ Intuitive light cues



100L INDOOR UNIT

Household size: small to medium

Dimensions [cm]: 50.0 x 110.0 x 50.0 (w/h/d)

250L INDOOR UNIT

Household size: medium to large

Dimensions [cm]: 67.0 x 172.0 x 60.0 (w/h/d)

Buffer Tank

Included in all Aira installations. The tank improves the reliability and durability of the heat pump system by minimising the system's stop and restart sequences during low-demand months.

- ✔ 15 Year Aira Comfort Guarantee
- ✔ Aira's signature Scandi design
- ✔ Low maintenance



40L BUFFER TANK

Dimensions [cm]: 37.5 x 71.5 (w/h)

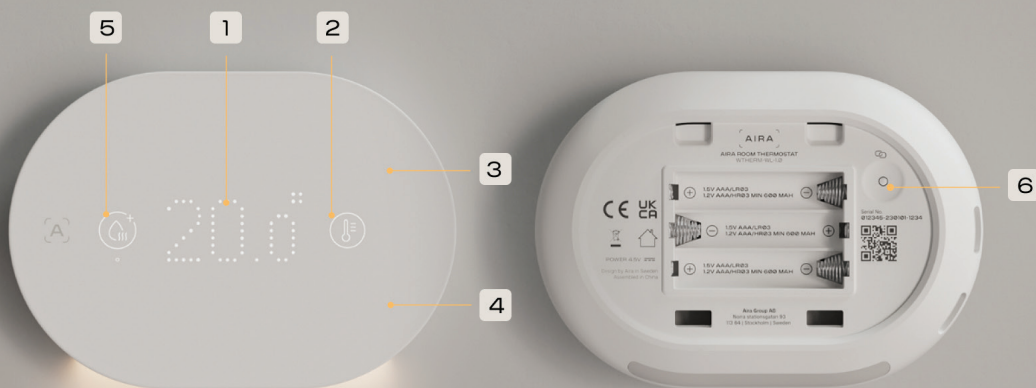
100L BUFFER TANK

Dimensions [cm]: 37.5 x 155.5 (w/h)

Aira Room Thermostat

Complete with easy access controls and intuitive light cues, the thermostat constantly measures the indoor temperature, showing it on the display while also sending it back to the heat pump so it can learn about how the home heats and cools down, adjusting where necessary.

- ✓ Aira's signature Scandi design
- ✓ Low maintenance
- ✓ Intuitive light cues
- ✓ Wirelessly connected with **THREAD** a reliable, secure and energy-saving network system
- ✓ 5 years product warranty



- 1 Temperature display
- 2 Set target temperature
- 3 Increase temperature
- 4 Decrease temperature
- 5 Activate Hot Water Plus
- 6 Pairing button
To pair with app and indoor unit

AIRA ROOM THERMOSTAT

Dimensions [cm]: 12.4 x 8.8 x 2.0 [w/h/d]

Product Combinations

To suit different types of households.



Small households

- Household size: 1-2 people
- House size: 1-2 bedrooms
[<10,000 kWh/year], 70-120 m²
- Aira Outdoor unit: 6 kW or 8 kW
- Aira Indoor unit: 100L
- Aira Buffer tank: 40L

Medium households

- Household size: 2-4 people
- House size: 2-4 bedrooms
[10,000 -20,000 kWh/year],
120-180 m²
- Aira Outdoor unit: 6 kW or 8 kW
- Aira Indoor unit: 100L or 250L
- Aira Buffer tank: 40L or 100L



Larger households

- Household size: 2-6 people
- House size: 4+ bedrooms
[>20,000 kWh/year], >180 m²
- Aira Outdoor unit: 12 kW
- Aira Indoor unit: 250L
- Aira Buffer tank: 40L or 100L



Product Specifications

Outdoor units



Model	6 kW Outdoor unit	8 kW Outdoor unit	12 kW Outdoor unit	12 kW Outdoor unit
Energy efficiency (35/55 °C)	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Refrigerant	R290	R290	R290	R290
Power output @ +7/35 °C [Max rps]	9.5 kW	12 kW	16 kW	16 kW
Power output @ -7/35 °C [Max rps]	6 kW	8 kW	12 kW	12 kW
SCOP [Average 35 °C]	4,7	4,7	4,7	4,7
Maximum cooling power @ 35/18 °C	8 kW	10kW	13 kW	13 kW
Max temp outlet	70 °C	70 °C	70 °C	70 °C
Working range, heating	-25 °C – +45 °C	-25 °C – +45 °C	-25 °C – +45 °C	-25 °C – +45 °C
Power supply	230V	230V	230V	400V
Recommended fuse size, A (outdoor unit)	16A	20A	35A	16A
Sound power level [EN12102]	57 dB(A)	56 dB(A)	57 dB(A)	57 dB(A)
Dimensions [cm] [w/h/d]	121.6 x 100.5 x 42.5	121.6 x 100.5 x 42.5	115.2 x 150.3 x 41.6	115.2 x 150.3 x 41.6

Indoor units & Buffer tanks



Model	100L Indoor unit	250L Indoor unit	40L Buffer tank	100L Buffer tank
Type	Indoor all-in-one unit	Indoor all-in-one unit	Buffer tank	Buffer tank
Tank size	100L	250L	40L	100L
Tank type	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Insulation	EPS	EPS	Polyurethan	Polyurethan
Max temp tank	75 °C	75 °C	95 °C	95 °C
Connections	Bottom	Top	Side	Top
Wall bracket	Yes	No	Yes	Yes
Dimensions [cm] [w/h/d]	50.0 x 110.0 x 50.0	67.0 x 172.0 x 60.0	37.5 x 71.5	37.5 x 155.5
Immersion heater	3-9 kW	3-9 kW	n/a	n/a

Aira Comfort Guarantee

Aira's 15 Year Comfort Guarantee includes a Performance Guarantee, ensuring a cosy temperature even on the coldest day of the year (based on expected minimum outdoor temperatures).

It also includes a 15 Year Product & Installation Warranty, where all parts and labour are included.



Aira Intelligence

Aira Intelligence is a set of smart, connected features that heat the home and hot water with optimal efficiency.

The Aira Heat Pump is constantly learning and optimising its performance. It learns a home's routines, everything from preferred shower times to how quickly the building warms up and cools down and creates a suitable indoor climate. It knows the weather forecast and adjusts itself to shifts and estimates the cost and CO₂ savings. It even looks after itself, fine-tuning components, settings, and software for a continuously improving experience.



INTELLIGENT TEMPERATURE CONTROL

With a clever self-regulating system, the heat pump maintains a cosy temperature for the house by learning household routines and the home's thermal properties, making it a more energy efficient way to heat the home and water whilst saving money and CO₂.



INTELLIGENT HOT WATER CONTROL

Not too much. Not too little. Just the right amount. Aira's Intelligent Hot Water Control learns the household routines and prepares the amount of hot water required, without the cost and CO₂ impact of producing excessive amounts. For extra control, users can see how much hot water they have left in shower minutes, not litres.



AWAY MODE

Away Mode helps to save energy and money when the home is empty for a few days.

It automatically lowers the temperature and pauses your hot water. Then brings everything back to normal to welcome you home.



HOT WATER PLUS

The Aira Heat Pump learns how much hot water the home normally needs and prepares the just-right amount. Then, for those unexpected times when more than usual is needed, the user can choose to activate Hot Water Plus. Afterwards, your system returns to making your usual amount.



SMART WEATHER MODE

The heat pump system is connected to the local weather forecast and proactively adjusts itself based on the predicted weather.

Whatever's happening out there, the inside temperature will stay as comfortable as ever.



Aira Home Energy App

The heat pump takes pretty good care of itself, but the Aira Home Energy app gives complete control to the user.



CONTROL THE PERFECT TEMPERATURE

Adjusting the temperature can be done easily in the app.



CHECK CONSUMPTION

See average hot water consumption for each hour of the previous day, and total hot water consumption during the current day.



SEE COST AND CO₂ SAVINGS

The app displays an estimate of the household's monthly savings compared to the old gas or oil boiler.



MANAGE HOT WATER

Increase or decrease the amount of shower minutes available to best suit the household needs.



ACTIVATE HOT WATER PLUS

Prepare additional hot water when you need more than usual.



TURN ON AWAY MODE

The system automatically lowers the temperature and pauses your hot water when you go away.



AIRA

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