

AURORA 28 AIR-TO-WATER HEAT PUMP (-10...+60 °C), ALSO FOR FROST THAWING

Aurora 28 air-to-water heat pump is the most versatile module in the Aurora Block hybrid heating system. It heats, cools, dries and thaws frost with one unit, and it is controlled remotely through the Spine system.

- Output 11.4–28 kW, COP up to 4.1
- Fluid temperature range -10...+60 °C
- Suitable for frost thawing with heating mats or hoses
- Electrical supply 3 × 32 A, maximum 11 kW
- Dimensions 1140 × 1440 × 1600 mm, weight 370 kg
- 2" Camlock connections, modules stack on top of each other
- IoT Spine remote control as standard



TECHNICAL ATTRIBUTES

Power	11,4–28 kW	Sähköliitäntä	3 x 32 A, maks. 11 kW
COP	jopa 4,1	Measurements	1140 x 1440 x 1600 mm
Käyttöalue	-10...+60 °C	Weight	370 kg
		Liitännät	2" Camlock

ADDITIONAL PRODUCT DESCRIPTION

Aurora 28 air-to-water heat pump takes heat from the outdoor air and transfers it into a fluid circuit. The output is 11.4–28 kW and the fluid temperature range -10...+60 °C, so one module handles heating, cooling, drying and frost thawing. The module is part of the Aurora Block system, in which units are chained together

into a single installation.

Who is the Aurora 28 air-to-water heat pump for?

The module is designed for construction sites, renovation projects, halls and temporary facilities.

It suits tight urban plots particularly well — plots where a conventional heating container simply does not fit. The footprint is 1140 × 1440 mm, and units can be stacked or lifted onto a balcony, an intermediate floor or a roof.

Where the heating demand grows in stages, modules are added as the need increases.

Aurora 28 air-to-water heat pump serves four purposes

Heating. The flow temperature is set to suit the site, up to +60 °C.

Cooling. The same unit also produces cooling, so summer use needs no separate equipment.

Drying. Steady heat speeds up the drying of structures and shortens the wait before surfacing.

Frost thawing. Warm water is fed to heating mats or hoses, thawing the ground without separate thawing equipment.



Part of the Aurora Block hybrid system

Aurora Block combines air-to-water heat pumps, ground-source heat pumps and fuel-fired backup heat into one system.

Aurora 28 acts as the system's primary source of heating and cooling. When the outdoor temperature drops to about -25 °C and the heat pump's efficiency falls, the system automatically starts the Aurora 64 boiler, which produces water at 90 °C.

The changeover happens without any action from the user, so the heat does not break during a cold spell.

Aurora 28 air-to-water heat pump and Spine remote control

The module has the IoT Spine platform as standard. You see temperatures, energy consumption and unit status in real time, and deviations trigger an alarm.

Remote control cuts down site visits and shortens response times when something goes wrong. Read more about [Spine heating control](#).

Arctic Warm states the operating reliability of the Aurora Block system at over 99 % across demanding sites.

Aurora 28 air-to-water heat pump - technical data

Unit type	Air-to-water heat pump
Output	11.4-28 kW
COP	up to 4.1
Fluid temperature range	-10...+60 °C
Electrical supply	3 × 32 A, max. 11 kW
Dimensions (W × D × H)	1140 × 1440 × 1600 mm
Weight	370 kg
Connections	2" Camlock
Remote control	IoT Spine, standard
Main functions	Heating, cooling, drying, frost thawing
Role in the hybrid	Primary heating and cooling module, hands over below -25 °C



Add the product to your quote cart and ask for a quote – we will size a configuration that fits your site.

Putting the module into service

The module is lifted into place, connected to the fluid circuit with 2" Camlock couplings and wired to a 3 × 32 A supply.

Commissioning needs no fixed structures and no site-specific design work. Settings are made in the Spine service, after which the system regulates itself according to the measured temperature.

As the site grows, further modules are chained alongside.



Transport and placement on a tight plot

The module weighs 370 kg and occupies 1140 × 1440 mm. It is lifted into place with an ordinary site crane or telehandler.

Units can be stacked, placed in a narrow installation corridor or lifted onto a balcony, an intermediate floor or a roof. A conventional heating container would need considerably more space and a fixed foundation for the same output.

Moving from one site to the next takes no dismantling work, because the connections are 2" Camlock quick couplings.



Energy consumption and emissions

The heat pump draws most of its energy from the outdoor air, so purchased energy is only needed to run the compressor.

According to Arctic Warm, Aurora Block cuts total costs by up to 30 % and carbon dioxide emissions by up to 90 % compared with fuel-fired heating. Finland's national energy agency [Motiva](#) publishes background on heat pump technology.

When heating rests primarily on a heat pump, the share of fuel in the running cost falls and the cost becomes easier to predict.

Frequently asked questions

What is the output of the Aurora 28 air-to-water heat pump?

The output is 11.4–28 kW and the COP up to 4.1.

In what temperatures does the Aurora 28 air-to-water heat pump work?

The fluid temperature range is –10...+60 °C. At around –25 °C the hybrid system transfers heat production to the Aurora 64 boiler.

Can the module be used for frost thawing?

Yes. Warm water is fed to heating mats or hoses, so no separate thawing equipment is needed.

Does the Aurora 28 air-to-water heat pump also cool?

Yes. The module produces both heating and cooling, so it serves all year round.

What are the dimensions and weight?

The dimensions are 1140 × 1440 × 1600 mm and the weight 370 kg. The modules are stackable.

What electrical supply is required?

The supply is 3 × 32 A and the unit's maximum output 11 kW.

Does the unit need a separate network connection?

No. The IoT Spine platform is integrated into the module and the connection works without a local network.

Can several modules be combined?

Yes. Modules are chained into one system whose total output is sized to the site.

Request a quote for the Aurora 28 module

Add the Aurora 28 air-to-water heat pump to your quote cart and send the request – we answer quickly. You can collect several modules in one cart. The full range is on the [heating page](#). If you want to ask something first, open the chat in the bottom right corner.

OTHER PRODUCT IMAGES

