AURORA 64 OIL BOILER (90 °C), 270 L TANK, 16 H BATTERY BACKUP, ALSO FOR FROST THAWING

Aurora 64 oil boiler is the peak and backup heat source of the Aurora Block hybrid heating system. It produces water at 90 °C and starts automatically when the frost hardens or the power fails.

- Output 64 kW, efficiency 90–98 % (AFUE)
- Flow temperature up to +90 °C
- 270 l fuel tank, also runs on HVO biodiesel
- 16 h battery backup – keeps running through a power cut
- Own power draw max. 1000 W
- Dimensions 1140 × 1440 × 1600 mm, dry weight 450 kg
- Also works on its own for frost thawing

TECHNICAL ATTRIBUTES

Power	64 kW	**Akkuvarmennus**	16 h
Hyötysuhde	90–98 % (AFUE)	**Measurements**	1140 x 1440 x 1600 mm
Sähköntarve	maks. 1000 W	**Dry weight**	450 kg
Fuel tank	270 l, myös HVO	**Liitännät**	2″ Camlock

ADDITIONAL PRODUCT DESCRIPTION

Aurora 64 oil boiler is the module that keeps the Aurora Block system running. It produces water at 90 °C with an output of 64 kW, it has a 270-litre fuel tank and 16 hours of battery backup. When the outdoor

temperature drops to about –25 °C or the power fails, the module starts by itself.

Who is the Aurora 64 oil boiler for?

The module is intended for sites where heating must not break: construction sites, industry, security-of-supply facilities and temporary accommodation.

It also suits sites where the power supply is unreliable or is interrupted from time to time. The battery backup keeps the boiler running for 16 hours without mains power.

The Aurora 64 oil boiler also works as a standalone unit on sites that need no heat pumps at all.

Aurora 64 oil boiler in three roles

Backup heat. In a hybrid system the module waits on standby and starts automatically when the heat pumps' output is not enough.

Peak heat. During the coldest spells the module tops up the heat pumps' output, so the target temperature is reached even in hard frost.

Frost thawing. Used on its own, the module produces warm water for heating mats or hoses. A flow temperature of 90 °C thaws the ground quickly.

Why a 90 °C flow temperature matters

Heat pumps typically produce water at up to +60 °C. Some sites need it hotter — old radiator networks and frost thawing among them.

The Aurora 64 reaches +90 °C, so it covers the cases a heat pump alone cannot.

A higher flow temperature also speeds up thawing and drying when the schedule is tight.

Aurora 64 oil boiler during a power cut

The module’s own power draw is at most 1000 W, and it has 16 hours of battery backup.

In practice the heating continues right through the night even if the site’s power supply fails. Structures do not have time to cool and no frost damage occurs.

That is usually the decisive difference on a site with fresh concrete or water pipes.

Aurora 64 oil boiler – technical data

Unit type	Condensing boiler (diesel / HVO)
Output	64 kW
Efficiency	90–98 % (AFUE)
Flow temperature	up to +90 °C
Fuel tank	270 l, also HVO biodiesel
Battery backup	16 h
Power draw	max. 1000 W
Dimensions (W × D × H)	1140 × 1440 × 1600 mm
Dry weight	450 kg
Connections	2″ Camlock
Remote control	IoT Spine, standard
Main functions	Backup and peak heat, frost thawing

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

Aurora 64 oil boiler also runs on HVO biodiesel

The module runs on both diesel and HVO biodiesel. HVO is made from waste and residues and burns more cleanly than conventional light fuel oil.

According to Arctic Warm, the Aurora Block system as a whole cuts carbon dioxide emissions by up to 90 % and total costs by up to 30 % compared with fuel-only heating. Most of the saving comes from the boiler running only when the heat pumps are not enough.

Finland’s national energy agency Motiva publishes background on heat pump technology.

Fuel consumption and refuelling interval

The fuel tank holds 270 litres. The running time depends on how large a share of the heat the boiler produces.

In a hybrid system the boiler runs only during the coldest spells and through power cuts, so the refuelling interval is considerably longer than with fuel-only heating.

According to Arctic Warm, fuel accounts for up to 90 % of the cost of conventional heating – which is exactly why cutting running hours delivers the largest saving.

Remote control and monitoring with Spine

The IoT Spine platform starts the module automatically based on the temperature and the state of the system.

The service shows the flow temperature, fuel consumption and unit status in real time. Read more about Spine heating control.


ARCTIC
WARM

Frequently asked questions

What is the output of the Aurora 64 oil boiler?

The output is 64 kW and the efficiency 90–98 % (AFUE).

How hot is the water the Aurora 64 oil boiler produces?

The flow temperature is up to +90 °C.

How long does the module run during a power cut?

The battery backup lasts 16 hours. The unit’s own power draw is at most 1000 W.

What fuel does the module run on?

Diesel or HVO biodiesel. The fuel tank holds 270 litres.

When does the module start in a hybrid system?

Automatically, when the outdoor temperature drops to about –25 °C or the heat pumps’ output is otherwise insufficient. Control runs through the Spine system.

Is the module suitable for frost thawing?

Yes, including on its own. Warm water is fed to heating mats or hoses.

What are the dimensions and weight?

The dimensions are 1140 × 1440 × 1600 mm and the dry weight 450 kg. The modules are stackable.

Can the module be used for cooling?

No. Use the Aurora 28 or Aurora 40 heat pump module for cooling.

Request a quote for the Aurora 64 module

Add the Aurora 64 oil boiler 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.

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