

ENRX

# Ventac<sup>®</sup>

PORTABLE AIR-COOLED INDUCTION HEATING SYSTEM





# Highly efficient. Easy to move.

Ventac is a portable air-cooled induction heating system (25 or 50 kW) that combines high continuous output with small size and low weight (only 36 kg). It has a sophisticated temperature control system that lets you stay in charge of your induction heating process. You get the task done quickly and can easily continue with the next one. Ventac is particularly well suited for pre-heating, post-heating and shrink-fitting applications.

## WHAT DOES VENTAC STAND FOR?

Ventac combines Ventilare (a Latin word that means “expose to the wind”) with AC (alternating current).





## WHERE TO USE

### Applications:

Pre-heating, post-heating,  
shrink-fitting

### Industry:

Tube and pipe  
Oil and gas  
Electrotechnical  
Construction  
Renewable energy

## Up to 50 kW of continuous power

Ventac has a continuous output of 25 or 50 kW. Unlike other air-cooled induction heating systems, Ventac will give you the power you need to perform your tasks without interruption. When we conducted a pilot project together with a customer regarding Ventac, the result was amazing: The customer could reduce the time per task from 1 hour to 30 minutes. Ventac uses SiC (Silicon Carbide) transistor technology, resulting in high thermal stability and high efficiency of more than 97%.

## The low weight is a heavy argument

Ventac sets a new industry standard with its compact size and a weight of 36 kg – just 1/3 of other air- and water-cooled alternatives. This makes it easy to transport to new work sites, and you can even wheel it around the workshop or factory on an robust trolley from ENRX with place for cables. No lift is needed – good for staff health and workplace logistics.

## You make a sustainable choice

Induction heating is a clean and green process used in manufacturing worldwide to reduce waste and energy, thereby minimising emissions and preserving natural resources. Ventac is a sustainable choice with its more than 97% efficiency – far better than any other air-cooled induction heating system. Transportation is also more manageable and less energy-consuming as Ventac's weight is only 1/3 compared to both direct competitors and water-cooled alternatives.

# Designed with people and productivity in mind

## **Excellent grip**

Integrated handles with metal body and plastic insert make Ventac easy to move around.

## **Not interfering with other devices**

Vacuum-formed side covers with integrated aluminium plates meet FDA's demands for Electromagnetic Compatibility (EMC).

## **Virtually maintenance-free**

The only moving part of Ventac is the fan. All service needed is to change the air filter regularly. No need to empty a system, clean out a tank or repair a pump.

## **Maximised matching**

A large matching area is crucial for productivity. Continuous automatic output matching ensures optimal power output for various heating operations. You can use a wide range of coil configurations without having to change a converter set up.





### Portable External Control Unit (ECU)

The ECU lets you monitor and control the heating task close to the the workpiece operation without having to be close to the machine. You can program heat and temperature cycles, and stop a heating process immediately via a quick stop. User-friendly and easy to learn. Robust design with rubber shock absorber casing.

### Trolley for easy transport

Our specially-designed trolley lets you quickly move Ventac from one mission to another. The trolley has an ECU docking station and storage for cables. Large wheels make the trolley easy to transport.

### A wide range of accessories

Get even more value out of your Ventac by equipping it with accessories such as:



Heating cables



Isolation blankets



Heating blankets



Temperature measurement



# An eco-friendly technology

Induction heating is an inherently clean process. It is far more energy-efficient than other heating alternatives. It does not emit carbon dioxide. It eliminates open flames, reduces the need for fuel and transport, and promotes safer, healthier workplaces.

## What is induction heating?

Induction heating is the process of heating electrically conductive materials, such as metals, by letting an alternating current create a magnetic field around a coil. When you place an object inside the coil, the object is immediately heated. The heat is generated into the object itself instead of by an external heat source via heat conduction.



## Fast

The produced heat in induction heating is instant. It takes less than one second to achieve a uniform surface temperature of 1,000°C on small metal components.

## Accurate

The right temperature is delivered precisely where it is needed. Customised coils ensure optimal heat patterns with minimal energy consumption.

## Controllable

Transistorised induction heating systems and process control software deliver complete control over the entire heating process.

## Repeatable

Induction heating can accurately repeat the desired heating cycle, including key parameters such as temperature, penetration depth and heat pattern.

## Clean, safe and compact

No gas, no open flames, no noticeable increase in ambient temperature and no excessive floor space occupied by furnaces.

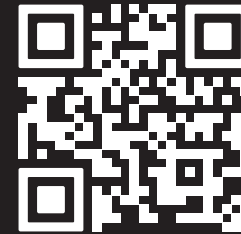


# A family for every need

Ventac is one of six product families within ENRX induction heating solutions. Together, these product families let you perform virtually any industrial heating task. In the unlikely event they don't meet your specific needs, we can sit down with you and devise your own customised induction heating solution.

ENRX also develops, commercialises and supplies mechanical handling equipment, coils and software control systems. We also offer a worldwide service program. To learn more about ENRX – and how we can help your business – please contact your nearest ENRX office.

- Sinac**<sup>®</sup> Universal heat generators
- Weldac**<sup>®</sup> High-output solid-state welders
- Minac**<sup>®</sup> Mobile heat generators
- Ventac**<sup>®</sup> Portable air-cooled induction heating system
- HeatLine**<sup>®</sup> Industrial heat processing systems
- HardLine**<sup>®</sup> Industrial heat treatment systems



More about our products, applications  
and the industries we serve.

## Get in touch

[info@enrx.com](mailto:info@enrx.com)





# About ENRX

ENRX is a global green tech company driven by induction. We offer induction heating, wireless inductive charging and contactless power supply with low or no carbon footprint for virtually any application within mobility and manufacturing.

THE RIGHT ENERGY CAN TAKE YOU ANYWHERE • [ENRX.COM](https://enrx.com)

ENRX®