



BACKER

## **SOLUTIONS FOR HEAT PUMPS**

RELIABILITY · ENERGY EFFICIENCY · COMFORT

# SOLUTIONS FOR HEAT PUMPS



## Innovations for the Future

A partnership with Backer provides you with a dedicated team of designers, project engineers, and technical experts in intelligent heating and control – ready to provide you with the optimal solutions for your needs. In addition to our smart products, we offer comprehensive services including simulations, tests, validations, and full documentation to ensure the highest level of performance and reliability.

### Crank Case Heaters / Compressor Heater

Eliminate start-ups with cold oil and increase the life time of the compressor. Backer has a standard range of heaters for compressors and crankcases, e.g. for heat pumps both in a design with heating cable in an aluminum section, as well as silicon heaters.

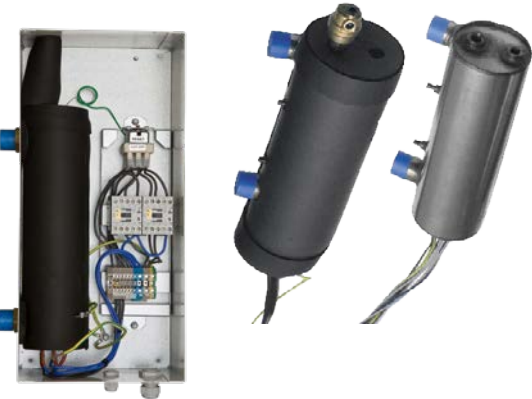
- Heating cables
- Self-regulating version
- With or without thermostat



### Backup Heaters / Booster Heaters

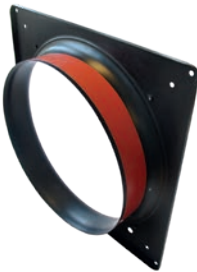
Welded stainless steel tanks with tightness guarantee. Units up to 42kW.

- For both internal & external assembly
- Thermal insulation
- Cables
- Overheat protection / thermostat
- Air vent



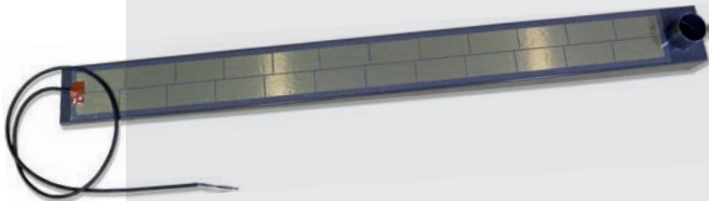
### Fan Housing Defroster

- Flexible foil elements
- Heating Cable



### Condensate Tray Heaters

- Flexible foil elements
- Heating cables
- PTC solutions
- Tubular stainless steel elements



### Immersion Heaters with Electronic Control

Electronic version allows reliable temperature control. Can be integrated with external control systems.

- For steel and copper tanks
- G1 1/4" to G2"
- Heating elements made of: 1.4404, 1.4547, 1.4876, 2.4858
- Isolated version for enamelled tanks



### Electronics

- Soft starters
- Inverters
- Controls
- Sensors



### Cables, Cable Harnesses and Control Panels

Custom made cables and harnesses made from various types of cables, dimensions and materials. Equipped with different terminals, housings and grommets.

Plug-and-play customer specific control panels, with baseplate housings made by either metal and plastic, with all components like cables, sensors, PCBs, chokes, displays, switches, etc.



### Flex Hoses

- Corrugated metal flex hoses
- Expansion joints
- Heating & cooling fittings
- Copper/SS connection flex hoses
- Boiler hoses



### Copper Brazed Stainless Steel Plate Heat Exchangers

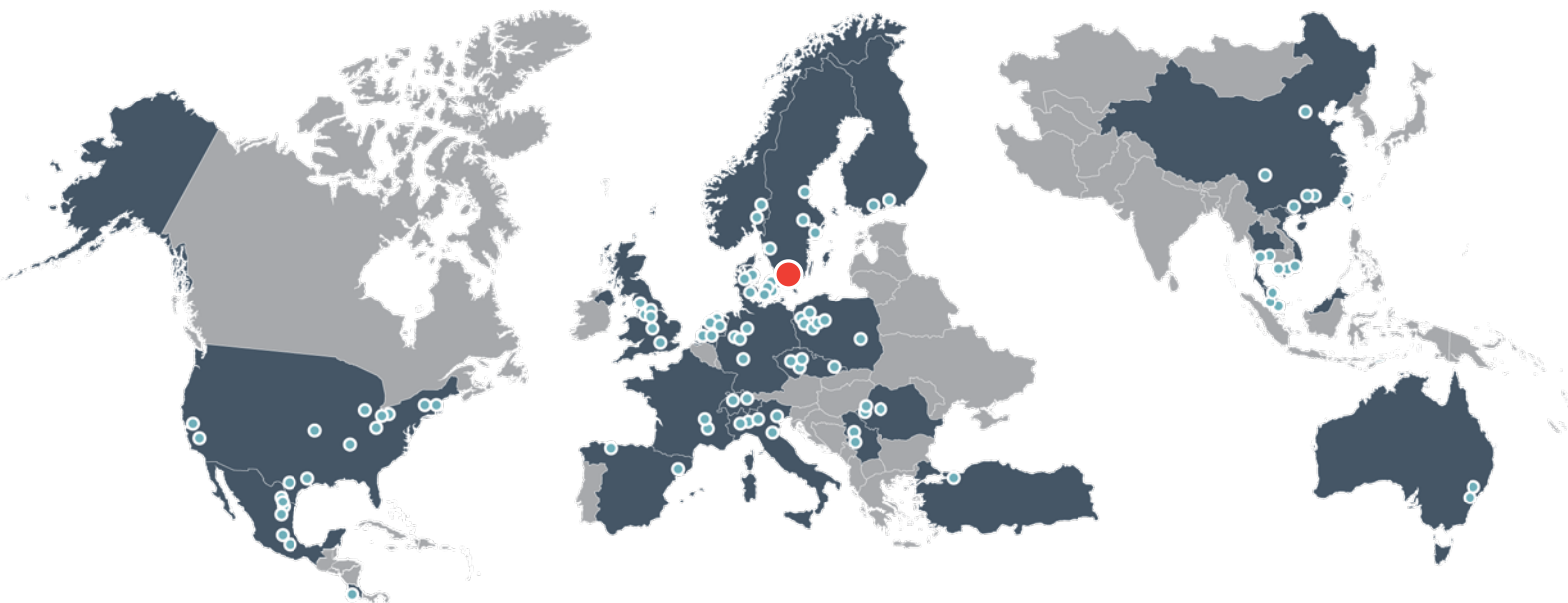
- Especially designed as a condenser or an evaporator for heat pumps
- Optimized plate pattern for maximum heat transfer
- Asymmetric design allows for decreased refrigerant amount in heat pumps
- Compact size combined with high strength
- Easy to install with tailor made connections



## SERVICES

- Simulations
- Tests
- Validations
- Documentations

# BACKER WORLD WIDE



## BACKER GROUP

We strive to provide optimal technical solutions with the best possible quality at globally competitive prices. With advanced capabilities in laboratory testing, engineering, agency certification and production, our passion for exceeding our customers' expectations makes us the first choice in heating solutions.

Backer AB is the headquarters for the Backer Group. Together we develop, produce and sell

customized solutions and components for electrical heating, measurement and control. With over 80 production sites and 10,000 employees worldwide, the Backer Group is the leading supplier in the heating element industry and offers the latest technologies and products on the market. All based on the first tubular heating element that our founder Christian Backer patented already back in 1921.

## INDUSTRIES WE SERVE



Industrial/  
Projects



Energy/  
Environment



Advanced  
technology



Commercial  
equipment



Home  
appliance



Transportation



HVAC



BACKER

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EVERYDAY · EVERYWHERE

Backer  
Heat Pump  
solutions

