



# Plate & Shell Heat Exchangers



## Vahterus & Innovation

Vahterus is renowned for its remarkable heat exchanger innovations. Since the foundation of the company in 1990, we have grown into a world leader in heat transfer technology.

Today we are strengthening our position, utilising our resources and expertise. Vahterus objectives for success are productivity, knowledge and customer satisfaction.

Research & Development is our primary resource. We have a team of R&D specialists who are continuously improving and developing our concepts further.

All manufactured products have been designed based on rigorous laboratory and field validation. Thermal and mechanical testing is carried out in our R&D laboratory and also in collaboration with universities and research establishments.

Several worldwide patents as well as prizes for innovative designs and environmental friendliness of our products, verify the importance of the continuous R&D work we are doing.

## Global & Effective

All our products are built according to customer specification for specific use to meet their exact requirements. Using our in-house Thermal Sizing Program, we can optimise the solution. This program is linked directly to our automated production process. The Vahterus Sizing Program can perform thermal and strength calculation, dimensional drawing generation and offer calculation.

Vahterus has a global distribution network of companies, who have been carefully selected with our customer's needs in mind.

Our technology is utilised in a wide range of industries including the chemical and process, power generation, refrigeration, heating and oil & gas sectors. Today our products can be found in use in over 50 countries all over the world.





## Products & Applications

Vahterus Heat Exchangers are an innovative concept in heat transfer technology. At the heart of the exchanger is a fully welded pack of plates, with pressure containment achieved using an unique shell construction.

Vahterus Heat Exchangers have several benefits, which include high pressure and temperature capability, aligned to their generic compact size. Maintenance costs are minimised, because there are no gaskets to replace. Our Heat Exchangers are available in a range of materials to cater for all applications.

### **Vahterus product families are:**

1. Plate & Shell Heat Exchanger (PSHE)
2. Plate & Shell Openable Heat Exchanger
3. Plate & Shell Compact Heat Exchanger
4. Plate & Shell Flooded Evaporator & Droplet Separator
5. Plate & Shell Flooded Evaporator & Droplet Separator, Combined
6. Plate & Ring® Heat Exchanger (PRHE)

The scale of operation is extensive within each product base. Our references range from single phase applications through to multi-phase, multi-component applications.

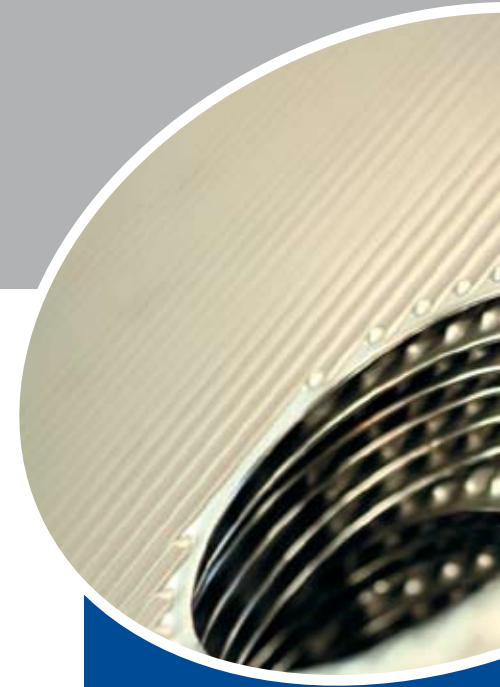


## Production & Quality

Our production is achieved using the latest technology. Production is fully standardised in order to meet the demands for fast and effective delivery.

We are utilising sophisticated and highly automated production technology incorporating the use of robot technology production lines.

The quality of our products arises from R&D, aligned with automated production technology and highly educated personnel. Quality is our solution to the specific needs of our customers: consistent, reliable and durable products are a matter of principle to us.





## Management System

DNV Certification Oy/Ab has assessed our management system, which is compliant with the Quality Management System Standard ISO 9001:2000. The certificate is valid for manufacturing of heat exchangers and pressure vessel combinations.

### **Manufacturing according to:**

EN ISO 3834-2  
PED module B+D  
AD-2000 HP0  
Rtod  
ASME U Stamp

### **Vahterus has received many classification approvals from the most leading inspection authorities, including:**

ABS Europe Ltd  
Bureau Veritas  
DNV  
Germanischer Lloyd  
Gost R  
Lloyd's Register  
R.I.N.A  
SELO, China  
TÜV Nord

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