

## Your partner for the future? Bronswerk Heat Transfer BV!

Bronswerk is a continuously growing company. We have the knowledge and tools to design both thermally and mechanically a wide variety of custom made heat exchangers and systems. We make use of state-of-the-art software such as HTFS, HTRI, HYSYS, Pro Mechanical (FEA) and EFD Pro (CFD). In addition to these tools we develop our own software. Bronswerk is certified to design and manufacture according many design codes, such as ASME U/ U2/R-stamp, TÜV and GOST. Our manufacturing plant is capable to produce heat exchangers with a wide variety of dimensions, materials and pressures. Welding of 'exotic' materials is one of our specialties. We are also experienced in co-manufacturing with foreign companies.

We supply to the NAM, Shell, Siemens, Dresser Rand, Rolls Royce, Fluor, Alstom, ABB Lummus and many other companies.

Altogether, we trust we are the partner you are looking for.



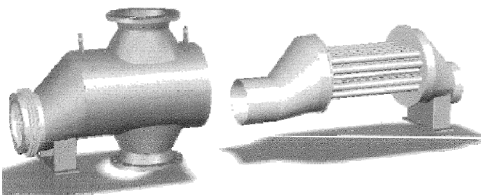
*Our premises in Nijkerk Netherlands*

If you require heat exchangers or you're having problems with your current exchanger we will find a solution for your company. Within Bronswerk you will find all kinds of solutions and different types of exchangers, for instance:

- Shell & tube heat exchangers
- Air cooled coolers
- Hairpin exchangers (Bronswerk multi-tube design & double pipe exchangers)
- A-Frame vacuum condensers
- Regeneration gas coolers
- Inter Coolers
- Self cleaning 'Klarex' heat exchangers
- Falling Film Evaporators

### Regeneration Gas Coolers

For this type of exchangers our innovation is an ongoing process. 10 years ago these units where huge cubic units, nowadays we build them as shown below including the multi-flow type i.e. in compliance with UOP licences.



*Regeneration Gas Cooler*

### Air Cooled Coolers and Shell & Tube heat exchangers.

Bronswerk Air Coolers and Shell & Tube Exchangers are used for the cooling and condensing of several kinds of products. You will find them in the oil and chemical industry, power generation, natural gas exploitation and many other fields. Bronswerk is able to design and manufacture air cooled coolers and shell & tube exchanger up to pressures of 1000 barg or temperatures up to 632°C.



*We can provide you with solutions for offshore problems*



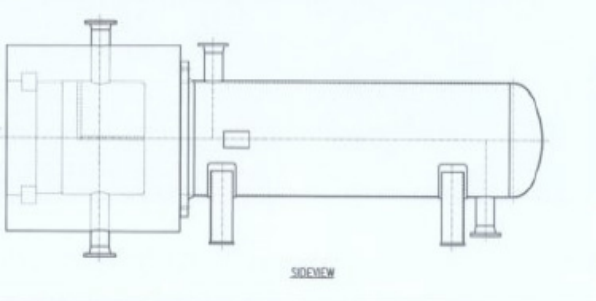
*Two large shell & tube exchangers for the NAM*



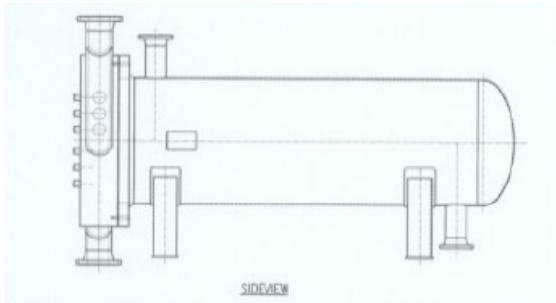
*Air Coolers for the Power Industry*

## High Pressure Compact Header Design

When designing high pressure heat exchangers it is common known that these require large and heavy D-heads. We have developed a new innovative design resulting in relative small and light head which reduces the used plot space and ease handling during installation and maintenance. For some applications it even results in serious savings on capital investment.



*Conventional D-Type Header*

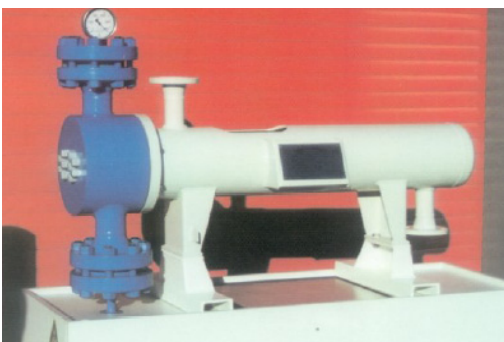


*High Pressure Compact Header Design*

This innovation resulted in our High Pressure Compact Header design. It has been tested and certified for pressures of 1000 barg. The design is suitable to stand even higher pressure. Commercial advantage can be more than 10% with respect to conventional D-type header. Bronswerk Heat Transfer is looking forward to receive your challenging requests.

Advantages	Low & Medium pressure	High Pressure
no headers needed	++	++
thinner tubesheets	+	+++
Shorter design for same duty	+	+++
less weight	+	++++
larger diameter possible	+++	++++
low maintenance costs	+	+++
price	++	++++

*Impact of advantages of the High Pressure Compact Header Design*



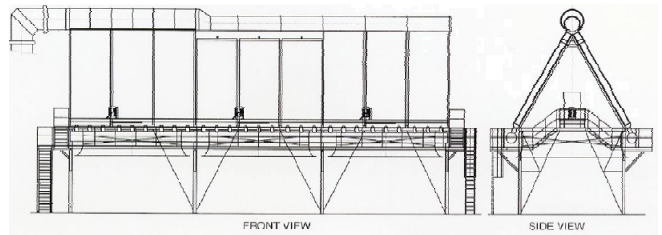
*High Pressure Compact Header*

## A-Frame vacuum condensers

Bronswerk manufactures A-Frame condensers. A-Frame condensers are traditionally used in the Power Generation Industry. Besides this application we have supplied these A-Frames as process condensers as well. As for all our equipment we design and manufacture ourselves. We can also take care of transportation to site, erection and commissioning of the Condenser.



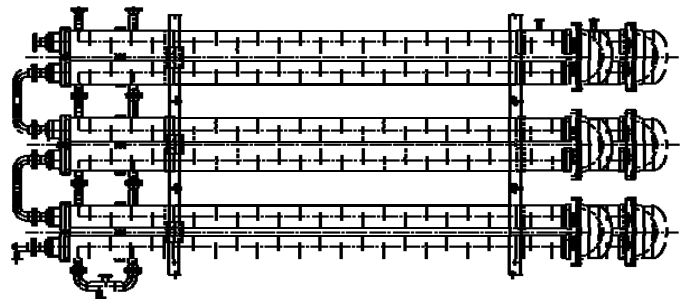
*A-Frame designed and installed by Bronswerk*



*A sketch of A-Frame Condenser*

## Hairpin exchangers (Bronswerk multi-tube design & double pipe exchangers)

Multitube Exchangers are designed and built in various types. The most common type is the fixed tube sheet design. Bronswerk has developed a retractable bundle design suitable for mechanical cleaning.



*Bronswerk Hairpin Exchanger*



**誥鑫企業有限公司**  
**ARITH COMPANY LTD.**

地址：台北市復興北路427巷30號  
電話：(02)2717-5038  
傳真：(02)2717-5039  
e-mail: taipei@arith.com.tw  
網址：http://www.arith.com.tw