

# BRONSWERK<sup>®</sup> HEAT TRANSFER

Dynamic Heat Exchange Solutions



## Air Cooled Coolers

Our solutions cover the oil and gas industry, power generation, waste heat, gas storage and transport, liquefying of industrial gases, etc. **Bronswerk®** Heat Transfer is well experienced in the design and manufacture of Air Cooled Coolers with all kinds of special materials according to international standards. **Bronswerk®'s** solutions can satisfy many requirements, such as high pressure, corrosive environments, temperature range from -196 °C up to more than 500 °C.

**Header design:**

- Plug Header
- Cover Plate Header
- Welded D-Header
- Manifold Header
- Bonnet Header
- Drilled Header



**Finned tubes design:**

- G-FIN (Al strips)
- L-FIN (Al strips)
- LL-FIN (Al strips)
- KL-FIN (Al strips)
- I-FIN (CS strips)
- Extruded (Al strips)



**Tube shape:**

- Straight tubes
- U-Tubes

**Technical parameters and important details:**

- Tube length up to 18 m (longer is possible with special arrangements)
- Tube diameter: 19.05 ÷ 50.8 mm
- Delivery in the preassembled condition upon request
- Design for corrosive fluids possible (Wet sour service, Lethal Service)

**Materials for pressure parts:**

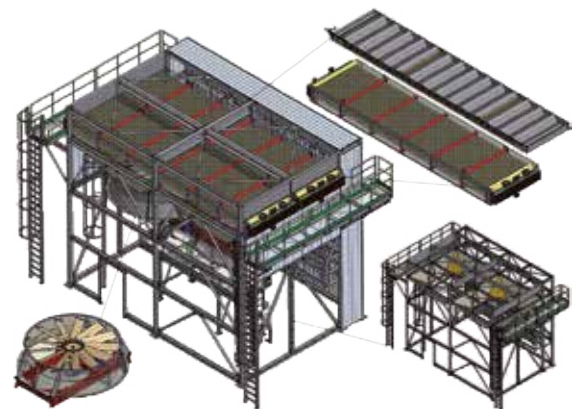
- Carbon Steel
- Stainless Steel
- Duplex Steel
- Special Alloys (mainly used 825 and 625)
- Copper
- Brass
- Titanium
- Weld-Overlay (cladding) of internal space of headers combining carbon steel and high alloyed materials

**Design of fan units:**

- Direct Drive
- Belt Transmission and Gear Box

**Design of Air Cooled Coolers:**


- HTRI / HTFS thermal calculations
- API 661
- ASME
- EN
- TR-CU
- ATEX (94/9/EC)
- Upon request, CFD possible



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