



Shell & Tube Heat Exchangers



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Our solutions cover the oil and gas industry, power generation, waste heat, gas storage and transport, liquefying of industrial gases, etc. Benvig® Heat Transfer is well experienced in the design and manufacture of Heat Exchangers with all kinds of special materials according to international standards.

Benvig®'s solutions can satisfy many requirements, such as high pressure, corrosive environments, temperatures range from -196 °C up to more than 500 °C.

Technical parameters and important details

Weight up to 80 tons | Length up to 16 m | Diameter up to 3,5 m | Minimum tube diameter 12 mm

Materials

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

Design of Shell & Tube Heat Exchangers according to Standards

HTRI/ HTFS thermal calculation | HEI | TEMA RCB | Special design – Bayonet Type | API 660 | Upon request, CFD possible



Surface Condensers and Feed Water Heaters

Benvig® can supply Surface Condensers (SC) with all necessary accessories for proper operation. In addition, Benvig® has experience with the design and supply of Feed Water Heaters (FWH), both low pressure and high pressure.

Both SC and FWH belong generally to Shell & Tube Heat Exchangers. Their design is very specific and satisfies the special requirements from the power industry for high performance and effective solutions.

Technical parameters and important details

Weight of single shell up to 80 tons | Special thermal design for subcooling and de-superheating zones | Diameter of the shell up to 3,5 meters

Typical scope of supply for surface condenser

Surface Condenser, including saddle supports | Evacuation system | Condensate tank | Relieve valves | Instrumentation mounted on the condenser | Epoxy coating for channel, upon request

Design of SC and FWH HTRI/ HTFS | HEI



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**Our roots are in Czech,
but we work internationally...**

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