

Winter is hot - VAU Thermotech enters the year-end rally

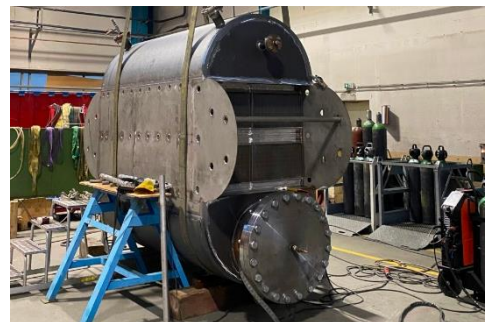
Christmas season brings full order books and crowded production halls

The end of the year 2022 is a good time for VAU Thermotech. The demand for fully welded hybrid tubular and standard plate heat exchangers ensures a considerable utilization of our production capacities.

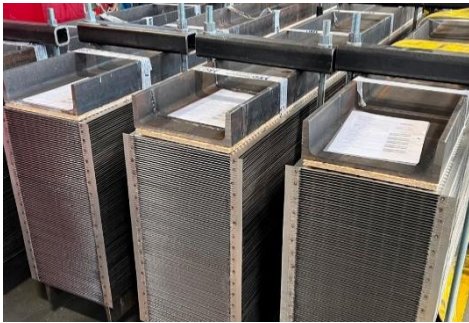


A global specialty chemicals company based in North Rhine-Westphalia needed a replacement condenser for an oxo plant. Since our hybrid could be integrated very well into the existing infrastructure and the low pressure losses required by the customer could be realized with it, we received the order. The recently delivered vacuum condenser weighs about 3.5 tons and offers an output of 867 kW on a heating surface of 163 m². Vapors and water are fed in counterflow.

As a result of the positive experiences with two heat condensers based on a fully welded hybrid tubular plate heat exchanger, a Western Europe based power plant operator ordered a third heat condenser for the cogeneration waste-to-energy plant. Similar to the other vessels, the new heat condenser weighs 7.500 kg, has a heating area of 379 m², and generates an output of 56 MW. In a cross-flow, heating steam flows on the primary (tube) side and the water to be heated for district heating flows on the second (corrugated) side. Finally, a total of 3 x 56 MW will then be decoupled from the power plant. This increases the efficiency of the entire system and protects the environment by reducing CO₂ emissions.



As the operators of a thermal power plant in Brandenburg wanted to protect the turbine blades from corrosion caused by sodium hydroxide, they placed an order with us for a system separation. This consists of two preheaters and two steam converters, which are connected between the electrode boiler used for steam generation and the turbine. In the steam converters, steam from the electrode boiler is fed in countercurrent on the primary side and deionized water on the secondary side. The heating steam condenses, is subcooled and is used in the preheater to heat the deionized water. The deionized water, on the other hand, evaporates in the steam converter and drives the turbine to generate electricity. The steam converters weigh 34.5 tons each, have a capacity of 50 MW and a heating surface of 1,788 m². The preheaters weigh 5.5 tons, have an output of 8 MW and a heating surface of 337 m². Delivery of the vessels is scheduled for the beginning of 2023.



Similarly, the retrofit of an evaporator in a sugar factory in Baden-Württemberg is to be carried out at the beginning of next year. For this purpose, the existing Robert evaporator will be replaced by a much more efficient Hybrid Tubular falling film plate evaporator. The fully welded plate packs will have a heating surface of 4,400 m² and are already in production.

We are also very pleased with a follow-up order for our new fully welded standard Hybrid Tubular plate heat exchangers. A manufacturer of freeze-drying equipment for the pharmaceutical and biotechnology industries has placed another order for four more VAU COMPLEX. Each of the units has an empty weight of 420 kg and a heating surface of 15 m². They are designed for a temperature range between -70 and +120 °C.



About VAU Thermotech GmbH & Co. KG

The independent and owner-managed VAU Thermotech GmbH & Co. KG was formed in 2008 by the takeover of VAU Werkzeug- und Gerätebau GmbH & Co. KG, which was founded in 1977. Owner and CEO is Osama Nasser. Headquarter and production are located in northern Thuringia, the branch office in Munich is an innovation hotspot for the development of new products.

The ISO 9001 certified company manufactures brazed plate heat exchangers, fully welded hybrid tubular heat exchangers and gasketed plate heat exchangers. In addition to series products such as brazed plate heat exchangers, VAU Thermotech is one of the few German heat exchanger manufacturers to master the project business with custom-made products and high-end solutions in which fully welded hybrid tubular plate heat exchangers are used for high performance. The company designs and produces its goods 100 percent in Germany and always delivers "from a single source".

The broad portfolio addresses heating, refrigeration and building technology, (petro) chemical industry as well as sugar, food and pharmaceutical industries. The heat exchanger plates are manufactured on fully automated production lines. The required shaping tools are made by the company's own CNC-controlled machine park.

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