

Kuhn-Fachmedien – Getränke und Lebensmittel Herstellung

Article from August 27, 2024: **Thermal oil heater**

Electric and heat supply



The thermal oil heaters have a net heating capacity of 3 x 3700 kW (Image: Intec Engineering).

The globally active, family-run company INTEC Engineering GmbH plans, manufactures and supplies customized systems for industrial process heat supply and regenerative power generation. Via the Saudi partner Al Raya Specialties Industrial Factory, the company was commissioned by a large food manufacturer in the Middle East with the delivery of a complex process heat supply system for a new poultry meat production factory in Riyadh.

The thermal oil heaters customized for this special food industry application with a net heating capacity of 3 x 3700 kW were calculated, planned and designed in-house and then manufactured at the Bruchsal plant.

The primary heat transfer medium used in this process is an HT1-registered thermal oil which also meets the purity requirements of FDA regulation 21 CFR 172.878.

The process heat is safely and gently transferred from the primary heat transfer medium to the food oil in contact with the product.

One of the challenges here is constant and precise temperature control of the process heat. Furthermore, the planned future expansion steps and extensions to the production facilities had to be taken into account.

With its extensive experience in this field, the company supplied the entire heat supply system up to the connection to the heat consumers including extensive planning services in order to meet the high demands of these requirements.