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Continuous Improvement Pays!

The Contherm Scraped-Surface Heat Exchanger's Improved 3" Tangential Head

Continuous improvement pays!

Alfa Laval is committed to continuous improvement, in order to provide maximum performance of our equipment for your processing system. The latest development from the Contherm Product Center is a 3" tangential head, which has been designed specifically for sanitary and food processing applications.

When gentle product treatment is a must!

Contherm's unique tangential head allows product to enter the cylinder under the rotor in a corkscrew pattern in the direction of the rotor to assure gentle product treatment. Product enters and exits the cylinder in the same direction as the turning rotor, maximizing product integrity and quality. This gentle handling is a must for products being processed in a continuous system such as such as pie fillings, fruit preserves, soups, sauces, gravies, eggs, pudding, and many other foods.

The new 3" tangential head improves product quality even further by providing a greater area for product to flow through, and ensuring more gentle treatment of product as well as a reduction in the pressure drop across the head. The result: low shear, and sensitive treatment of products that contain large particulates or are particularly viscous.

Upgrade your existing unit

The 3" tangential head is, by design, completely retrofittable for installed Contherms. No additional components are required if upgrading an existing unit.



How do we compare?

Most scraped-surface heat exchangers feature inlet/outlet systems utilizing a center port design. This can often damage incoming product as it is forced directly into the scraped-surface heat exchanger's rotating parts. As a scraping blade sweeps by a center port inlet and outlet, it produces a high shear environment which can be damaging to products that are sensitive and/or contain particulate matter. The Contherm's tangential head has been specifically designed to improve your product and your performance.

The Contherm Scraped-Surface Heat Exchanger

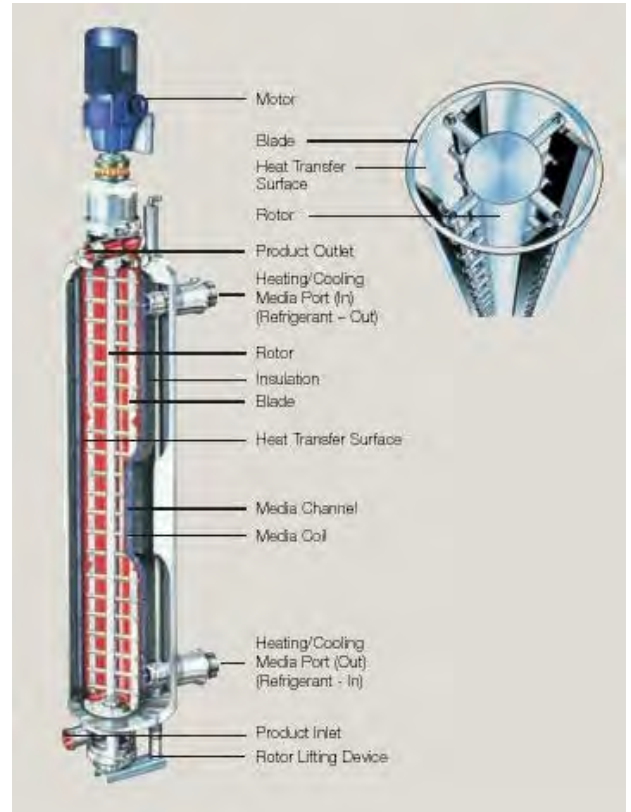
The Contherm Scraped-Surface Heat Exchanger can be mounted vertically or horizontally, and is designed for heating and cooling of particulate, sticky, viscous and crystallizing/phase change processes. It can operate with a wide variety of media including steam, water, brine, ammonia, glycol, freon, thermal oil or liquid gases, including our newly designed CO₂ Contherm. During operation, the product is pumped into the lower end of the heat exchanger cylinder and is removed from the cylinder walls by blades that scrape the walls as the product flows through the cylinder. This scraping action continuously removes all product that is crystallizing or adhering to the heat transfer surface so that fouling does not occur. The heating or cooling media flows in the annular space between the cylinder and the insulated jacket. When liquid media or steam is used, a spiral coil is installed in the annulus to provide higher heat transfer efficiency.

World Class Service

Alfa Laval seeks to be a long-term performance partner to our clients. A major part of that effort is service. From supplying the smallest part to helping clients configure systems to their specific applications, service is integral to the Alfa Laval business philosophy.

The Next Generation

Watch for additional improvements and enhancements as Alfa Laval prepares to introduce the next generation Contherm SSHE.



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