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SRJ HEATT EXCHANGERS INDIA PVT LTD
Formally known as SRJ Engineers Pvt Ltd.

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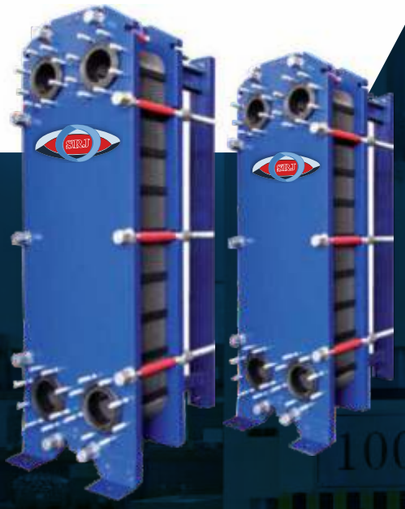

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SRJ PLATE HEAT EXCHANGER, PHE PLATE & PHE GASKET MANUFACTURER

PLATE HEAT EXCHANGERS

Our Plate Heat Exchanger range is specially designed for pasteurizing and general cooling/heating of beverages, dairy, brewery, chemical, textile, oil and gas as well as utilities. No mattress which product you select, you will acquire a proven, reliable, compact and hygienic design that will carry out its tasks effectively for many years to come.

What are heat exchangers?

They are devices specifically designed for the efficient transfer of heat from one fluid to another fluid over a solid surface. This transfer of heat can either take the form of absorption or dissipation of heat. Heat exchangers can be found in everyday equipment from boilers, furnaces, refrigerators to air conditioning system.

How can heat exchangers be put to use for you?

As a heat transfer device, it is the function of a heat exchanger to transfer heat as efficiently as possible. this makes, it the ultimate device of choice for instance, when it come to saving energy by recovering wasted heat and making it useful again. When there is a waste of energy or a heat stream that is not recovered, a heat exchanger an covert that heat stream into something that we can use.

www.srj.co.in

SEMI WELDED HEAT EXCHANGERS

Semi welded gasketed plate heat exchangers are used when gaskets are not suitable as one of the process media. Semi-welded GPHEs can also take a higher design pressure compared to fully gasketed plate-and-frame heat exchangers.

In the Semi-welded heat exchanger the refrigerant flows in laser-welded, sealed plate channels, and in the opposite channel the liquid brine flows in gasketed channels.

Applications

Semi-welded GPHEs are used in Sulphuric acid & refrigeration applications

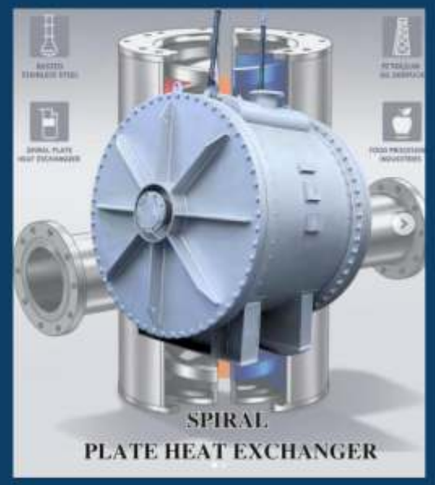
- H2SO4 Coolers
- Condensers
- Economizers/subcoolers
- Evaporators
- Desuperheaters

SPIRAL HEAT EXCHANGERS

Exceptionally well-suited for sludges, slurries, waste water, fouling, liquids with high viscosity, and liquids that contain fibers and solids, spiral heat exchangers are the definitive solution for applications that require treatment of challenging fluids. The design allows for a countercurrent flow that makes it possible to achieve very close temperature approaches.

Since we use coiled metal sheets instead of tube bundles, we can achieve very high thermal performance without sacrificing the channel gap that lets the media flow unimpeded.

The spiral coil itself also contributes to the turbulent flow, and the single-channel design helps alleviate fouling with a "self-cleaning" effect. Accumulated deposits create local increases in velocity, creating a scrubbing effect that is enough to loosen the build-up in fouling in most cases. Spiral heat exchangers to operate in very long sessions without maintenance or cleaning.



Some media, however, are so challenging that the heat exchanger requires more frequent maintenance and cleaning. With this in mind, we have designed hinged covers that are sealed with C-clamps, creating a swing door that is very easy to open and close without any special tools required, letting you access the entire coil for inspection and cleaning.

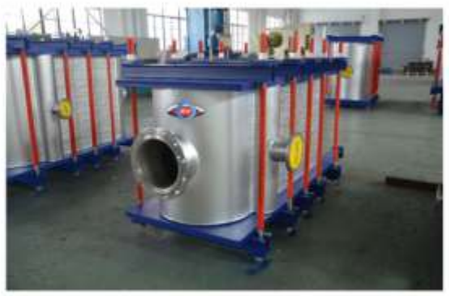
BRAZED PLATE HEAT EXCHANGERS

A plate type heat exchanger is a type of heat exchanger that uses metal plates to transfer heat between two fluids. This has a major advantage over a conventional heat exchanger in that the fluids are exposed to a much larger surface area because the fluids spread out over the plates. This facilitates the transfer of heat, and greatly increases the speed of the temperature change.

The plate heat exchangers we developed have high efficiency of heat exchange, superior to domestic congener products in technology. Under the same heat transfer coefficient, the resistance losses of the product can be controlled within 1/3 scope as tubular heat exchanger. The ripple type plate aims at deep membrane heat conduction coefficient, and forms a special channel. Thus, liquid can bring the strong turbulence in the so low flow speed, and the rotational flow arises in the plate surface in order to shorten the time that the liquid rests on the surface, and avoid the dirty with self-purification. The quality of the product is reliable according to the request of the ISO9000 in design, purchase, production and inspection.

WELDED HEAT EXCHANGERS

A full welded plate heat exchanger, it means that the heat-transfer plates are welded together with no need for an external gasket. Gasketed plate heat exchangers are suitable for many applications, but are limited in terms of temperature and pressure, coupled with the fact that there is always a risk of gasket failures and/or permeation. The same risks apply for semi-welded plate heat exchangers.



WIDE GAP PLATE HEAT EXCHANGERS

Wide Gap gasketed plate heat exchangers are designed for fibrous fluids and for fluids containing coarse particles. The wide gaps between plates allow fibers and particles to easily pass through the heat exchanger with minimum clogging.
They can be configured with wide-wide or wide-narrow channels, which make the units ideal for heating, cooling and interchanging duties. The smooth port design ensures fibers don't get stuck at the entrance.

Applications:

- Sugar
- Distillery
- Bioethanol
- Pulp and paper
- Petrochemicals
- Condensers for heat recovery