

ECOFLUX* Corrugated Tube Heat Exchanger

HRS Process Systems Ltd, India, is part of UK-based HRS group of companies, a leading heat transfer technology provider. HRS is equipped with a strong network all across domestic and international market like UK, Spain, USA, India, Australia, New Zealand and Malaysia to fulfil technology needs of process industries.

The high demand for heat transfer equipments in industries like chemical, pharmaceutical, agrochemical, petrochemical, oil and fats, fertilizer, food and beverages, engineering and others is driving the advancement in heat transfer technology. Heating, cooling, chilling, condensing, re-boiling, pasteurizing, sterilizing, evaporating are the key processes in these industries. To carry out such processes effectively, heat exchanger becomes heart of the process plant.

During heat transfer process, over a period of time, deposition of substance occurs. Formation of this boundary layer is referred to as FOULING, a factor which

poses resistance to product flow. Fouling is typically high in shell and tube (smooth tube) heat exchangers and significantly impacts the heat transfer process.

HRS offers ECOFLUX corrugated tube heat exchanger (CTHE), which is a shell and tube heat exchanger where "corrugated tubes" are used instead of plain tubes. This is a definitive option to tackle fouling seen in regular shell and tube heat exchangers. The tubes in ECOFLUX CTHE are corrugated to induce turbulence in both the flows (product and service) even at lower velocity. Corrugated tube thus, boosts heat transfer

multi-fold even at low Reynold's number with minimum increase in pressure loss. This enables efficient heat transfer even in liquids with high viscosity, large fibers or particulates.

ECOFLUX corrugated tube heat exchangers are compact in yet give significantly enhanced performance over smooth tube heat exchanger. It can be customized according to the process needs with wide choice of MOC like SS-304L, SS-316L, 904L, 321, Titanium, Duplex, Hastelloy, Alloy 20 and Copper depending upon compatibility of process fluids.

ECOFLUX CTHE is offered in a range of models as per ISO, TEMA and latest design standards to suit different process applications. It enables continuous process running for longer duration, requires low maintenance and also gives high response to CIP. This proves to be a versatile, economical and energy-efficient equipment for multiple process industries. ■



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