

Heat Transfer Pumps

Volute casing pumps with uncooled mechanical seal according to EN 733 or EN 22858.

Technical Data

Flow rate: up to 1,000 m³/h

Head: up to 95 m

Product Series Hot Oil: ZTN / ZTK / ZTI

Product Series Hot Water: ZHN / ZDN / ZEN / ZLI

Design

In the temperature range up to approximately 200 °C, water is the preferred medium as it is non-polluting and has a high specific thermal capacity. In the temperature range from 200 °C to 400 °C, organic heat transfer liquids are preferable because the vapour pressure also rises considerably when the temperature increases. For handling these heat transfer media, volute casing pumps have been specially developed.

More Information

- Request for Information / Quotation

Application Hot Oil

The SIHI Hot Oil heat transfer pumps have been specially developed for handling of mineral and synthetic heat transfer oils. The pumps may be used in installations with positive or negative suction pressure. Especially to be emphasised is the application in plants of the chemical industry (heating of agitators, reactors, drying plants, polymerisation plants, plants for conveying high-viscous products and producing plastic materials and synthetic fibres), the rubber and plastic industry (heating of calendars, melting pots, power presses for plastics, automatic injection moulding machines, production of PVC adhesive tape), the food industry (heating of baking and fish-frying ovens, distillation of fatty acids and glycerine, fat softening plants, production of potato chips and milk powder) and the paper industry and laundries (calendar rolls, production of corrugated cardboard, heating of washing machines, mangles and dryers).

Application Hot Water

The SIHI Hot Water heat transfer pumps are primarily used for circulation of hot water in closed pipe and vessel systems. Therefore their fields of application are the energy production, the heat transport industry and here mainly in systems where hot water as heat carrier is given preference, despite its high system pressure, over oil as heat carrier.

