Tube-bundle heat exchangers

Process liquids, waste water or vapour (air saturated with water vapor) flow through the shell and tube and are used as a source of energy, at which heat is extracted or discharged. The intermediate circuit flows through the shell or tube area. Special pipes are used instead of conventional piping or an automated cleaning system is fitted in order to optimise performance and for high solid content levels in the water respectively oil-bearing exhaust air. The tube heat exchanger is suitable for extracting energy from water, waste water and greywater with low levels of solid content, as well as vapour, particularly in industrial operations, buildings, sewage-treatment plants and surface waters.

Technical data
- Material: Stainless steel 1.4307, 1.4404, 1.4571
- Pipe length: 3 or 6 meters
- Application: Suitable for heating and cooling
- Area of use: Waste water (industrial and municipal), liquids of all kinds containing solids
- Installation site: Indoors or outdoors

Heat exchange performance
- k-value: 600 – 1500 W / m²K

Energy use in buildings
Example in combination with collection container

Energy use in wastewater channel
Example of use of wastewater heat from a channel with no sieving

Energy use in wastewater treatment plant, surface waters
Example of use of waste water heat in wastewater treatment plant

Energy use in waste process heat
Example waste process heat in a dairy operation

Energy use of vapour, exhaust air
Example of vapour condensation