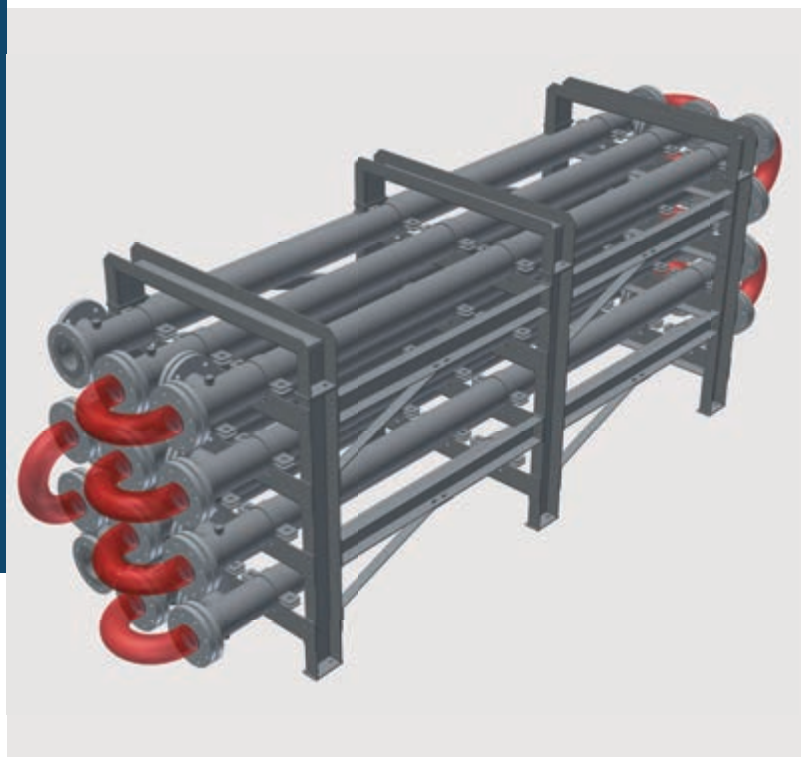
Renewable energies

KASAG

Double-pipe heat exchanger

KASAGDouble

Waste water flows in the inner tube of the double pipe heat exchanger and is used as a source of energy, by extracting or discharging heat. The intermediate circuit runs between the inner and outer pipe. Special pipes are used instead of conventional piping in order to optimise performance and for high solid content levels in the waste water. The double pipe heat exchanger is particularly suitable for grey and black water in buildings, sewage pipes and in wastewater treatment plants.



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 places	Indoors or outdoors

Heat exchanger performance (heating)

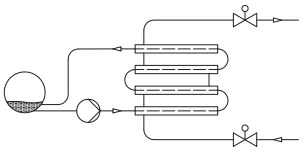
Pipe diameter	
DN32	400 W / m
DN40	460 W / m
DN50	600 W / m
DN65	720 W / m
DN80	840 W / m

Assumptions

Waste water temperature	13 °C
Inlet temperature	6 °C

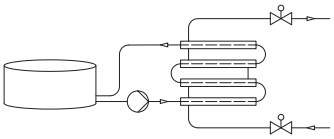
Energy use in wastewater channel

Example of use of waste water heat from a channel with no sieving



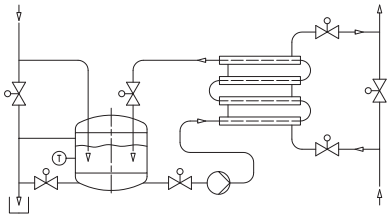
Energy use in wastewater treatment plants

Example of use of waste water heat in wastewater treatment plant



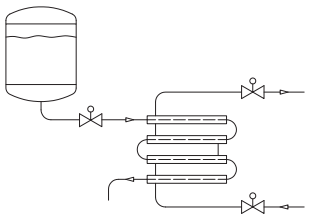
Energy use in buildings

Example in combination with collection container



Energy use in waste process heat

Example waste process heat in a dairy operation



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