

Heat exchanger with automated cleaning

KASAGClean

The waste water flows continuously or in surges – through a coarse filter where necessary – and is retained in a retention volume in the form of a container or basin. Here, it will be used as a source of energy. The retention container incorporates a cylindrical or flat heat exchanger with or without automated cleaning. In operation heat is extracted or discharged. Heat exchangers with automated cleaning are particularly suited for use in residential or municipal buildings, waste water treatment plants, hotels, thermal baths, swimming pools and in industry.



Technical data

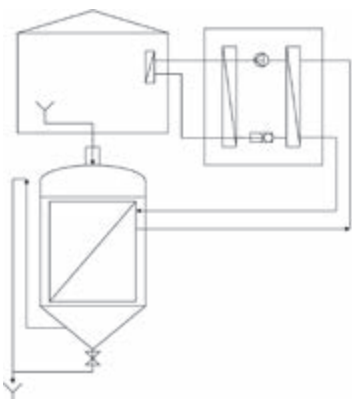
Material	Stainless steel 1.4307, 1.4404, 1.4571
Container volume	Min. 500 litres
Application	Suitable for heating and cooling
Area of use	Greywater, process water, liquids containing solids
Installation places	Indoors or outdoors

Heat exchange performance

The wide range of potential capabilities of heat exchangers with automated cleaning means that it is impossible to provide general performance figures. KASAG Swiss AG will require the following information in order to provide an initial assessment:

- Waste water (quantity and timing)
- Waste water temperature
- Intended use of the energy generated

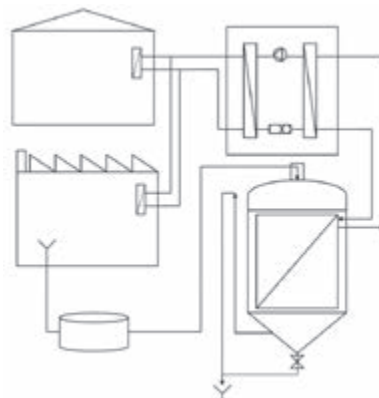
For example: Greywater from hotel operations for hot water and heating



For example: Waste water from commercial operations for lifting the temperature of process water



For example: Process water from industrial operations for heating and cooling





We make waste-heat to your profit.

Cylindrical heat exchanger with automated cleaning

KASAGClean (C)

KASAG Swiss AG offers cylindrical heat exchangers in 3 different designs and with 4 different control systems.

Dimensions, design

Diameter max. of element	Volume of container	Heat exchanger surface area
Ø 606 mm	~ 565 litres	~ 3.51 m ²
Ø 806 mm	~ 1005 litres	~ 8.86 m ²
Ø 1006 mm	~ 1570 litres	~ 16.04 m ²
Ø 1208 mm	~ 2260 litres	~ 24.90 m ²
Ø 1408 mm	~ 3078 litres	~ 35.45 m ²
Ø 1608 mm	~ 4021 litres	~ 47.84 m ²
Ø 1808 mm	~ 5089 litres	~ 62.06 m ²
Ø 2010 mm	~ 6288 litres	~ 78.12 m ²
Ø 2210 mm	~ 7602 litres	~ 95.86 m ²
Ø 2410 mm	~ 9047 litres	~ 115.44 m ²

Without automated cleaning

Heat exchanger (manual cleaning): Bottom and dished cover welded, container opening for inspection/cleaning, manually actuated valves.

With automated cleaning

Heat exchanger cleanable: Bolted dished cover, bottom welded, cleaning system including HE-CD3 control system, electrically actuated valve.

With automated cleaning and bottom discharge

Heat exchanger cleanable: Bolted dished cover and bottom, cleaning system with bottom discharge tool and outlet, HE-CD1 control system, electrically actuated valves.

Control system

HE-CD1: SPS with touchpanel for optimal cleaning speed, valve control and temperature display.

HE-CD2: Logo panel with function buttons, frequency converter for optimal cleaning speed, valve control and temperature display.

HE-CD3: Logo panel with function buttons, with valve control and temperature display.

HE-CD4: Logo panel with function buttons, with valve control.

Flat heat exchanger with automated cleaning

KASAGClean (F)

The Height H x Width W x Length L dimensions must be defined on a project-specific basis. Designs and control systems are the same as for **KASAGClean (C)**.