

## SZ8 SealCooler<sup>TM</sup> thermosiphon system

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The SZ8 SealCooler<sup>TM</sup> thermosiphon system is designed to be used with double mechanical seals with pumping features.

Together they form a closed sealing liquid circulation loop, keeping the seal lubricated and cooled and preventing the seal from running dry, extending the life of the seal.

SZ8 SealCooler<sup>TM</sup> thermosiphon system offers significant savings in seal water consumption compared to external flow-through.

The structure of the SZ8 SealCooler<sup>TM</sup> thermosiphon system is simple, robust and reliable. It is possible to select optional features to fulfill the seal flushing system requirements.

### Basic scope

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- Ball valve
- Hoses 3 m / 10 ft. length with fittings
- Level indicator
- Pressure gauge
- Relief valve
- Reservoir with a volume of 8 liters / 2 USg
- Support foot / base
- Temperature gauge

### Available options

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- ATEX approval
- Breather
- Finned air cooling
- Hand refill pump
- Leakage indicator
- Low and/or high alarm sensor
- Multiple connections and fittings
- Pressure accumulator
- Pressure reducing valve
- Pressure switch
- Pressure transmitter
- Hard piping option
- Winter package (-40°C / -40°F)

Registered community design EU 004387223-0001, Flow Control Oy TH, Finland

## Product information

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- Designed for pressurized and non-pressurized double seals (API 52 and 53)
  - Suitable for water, glycol-water and white oil applications
  - Process temperature max. 100°C / 210°F
  - Sealing fluid temperature -20 to 70°C / -4 up to 158°F
  - Pressure max. 10 bar / 145 psi
  - Manufactured in AISI304 stainless steel
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- Remarkable savings on sealing liquid costs
  - Robust and reliable construction
  - Wide selection of optional features
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**Optimise your energy use, water savings and overall process efficiency with the new Flow Control SZ8 SealCooler™ Thermosiphon system. Designed and built in Finland, the SZ8 ROI time will delight and amaze.**

Significantly improve your ecological footprint with this new environmentally friendly and sustainable water treatment technology!

### **Huge savings**

The **SZ8** offers the manufacturer huge savings in both water and energy use. All paper mills use millions of litres of water and incur massive energy costs. Changing from an external flow through to a closed loop structure reduces consumption enormously, not only delivering significant savings in monetary terms but also greatly boosting the mill or plant's sustainability credentials.

### **About Flow Control**

Flow Control is a specialist Finnish company that manufactures circulation lubrication systems, flow meters and seal supply systems for applications in the pulp, paper and chemical industries. Teuvo Huhtala, inventor and owner of Flow Control has long experience in the seal water industry and the Flow Control portfolio draws on all of this expertise.

### **Closed Circulation Solutions from Flow Control**

A new invention to handle seal water used in rotating shaft seals in the pulp and paper industries is also available from Flow Control. The sealing of rotating shafts is a significant cost factor in most process industries and any failures can be extremely costly.

Of robust and reliable construction, the **Thermosiphon SP8 seal pot system** is designed to be used with double mechanical seals equipped with pump features. Together they form a closed seal liquid circulation loop and keep the seal lubricated and cooled at all times, preventing dry run, and extending the lifetime of the seal.

### **Water usage with traditional seal water technology is eyewatering**

Say one pump uses 4 litres of seal water a minute, or 240 litres an hour.

The pump runs 24 hours = 5760 litres / in 24 hours.

One paper machine can have 100 pumps, together using 576 000 litres in 24 hours.

In just 30 days consumption would be well over 17 million litres of water!

All of this water is running out in the basement, part is cleaned and pumped back as seal water, the rest released out in rivers, one could say throwing money down the drain, The **Thermosiphon SP8** ends all this by closed loop technology and the savings can be astronomical.

**Easy to install and maintain, more than 3000 have been delivered already! Contact us for more information and a no obligation consultation:**

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