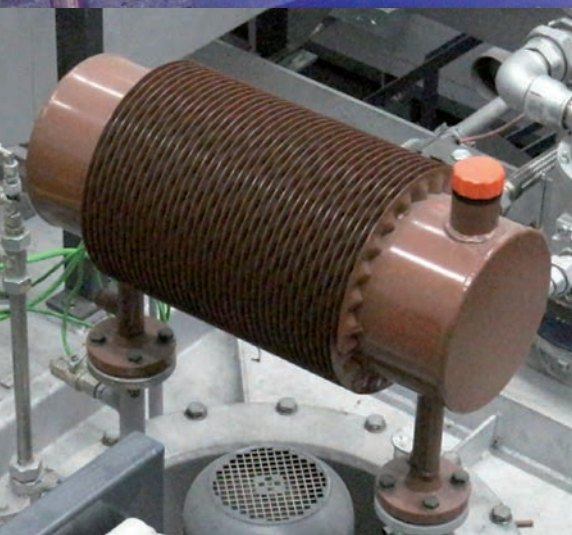


Process reliability + energy efficiency
OPTIMIZED THERMOSIPHON COOLING



Optimum Cooling for Circulators
and Pushers

Optimization Options for Cooling of Circulators and Pushers

In the past, central cooling systems were used to cool the plant's components. These could be operated with various media that were functional, but which also had some inherent disadvantages:
With central cooling systems, cooling is provided only if the media feeds are functional; the failure of which could lead to considerable damage to the circulators and pushers.

■ Water cooling:

- Limescale can lead to clogging of the lines over time and may cause the cooling system to fail
- Water as a medium should be avoided in heat treatment systems for safety reasons – especially when combined with oil and salt baths.
- Power failures and faulty media feeds cause the cooling system to fail

■ Air cooling:

- Noise pollution from the blower
- Prone to line contamination
- Power failures and faulty media feeds cause the cooling system to fail

■ Oil cooling:

- Power failures and faulty media feeds cause the cooling system to fail

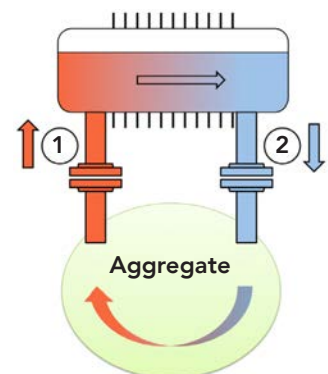
The AICHELIN Advance: Thermosiphon cooling

The original version: cooling circuit together with the circulator or pusher

- Warming up the heat transfer oil, the medium rises through line 1
- Cooling the oil via the cooling element, sinking of the oil into the aggregate through line 2
- Result: an autonomous circulation without conveyance by a drive
- Increased serviceability of the respective units together with the shut-off valves on both sides of the flanges

Advanced development thermosiphon cooling:

- **More lowering** of temperature of the heat transfer oil than in the original version thanks to the **optimized cooling element**
- **Increasing** the cooling capacity by yielding optimized aggregate cooling
- **Improvement of the reliability** of the cooled unit until the next maintenance



Your Advantages

- Virtually maintenance-free
- Operational and process safety
- Modular design
- Compatible with previous versions as well as water and air cooling systems - easy conversion
- Longer aggregate lifetime thanks to improved cooling capacity
- Widely proven product from Aichelin

Your reliable partner

- Competent engineering partner
- Reliable supplier of components
- High level of expertise in plant modernization
- Perfect integration into your Aichelin plant by the original manufacturer

AICHELIN
Service

AICHELIN Service GmbH
Schultheiß-Köhle-Straße 7
D – 71636 Ludwigsburg
Tel.: +49 (71 41) 64 37-0
Fax: +49 (71 41) 64 37-100
E-Mail: service.de@aichelin.com

AICHELIN
Heat Treatment Systems

AICHELIN Ges.m.b.H.
Fabriksgasse 3
A – 2340 Mödling
Tel.: +43 (22 36) 2 36 46-0
Fax: +43 (22 36) 2 22 29
E-Mail: service.at@aichelin.com

www.aichelin-service.de

Member of AICHELIN Group