



*"Quick Links"*

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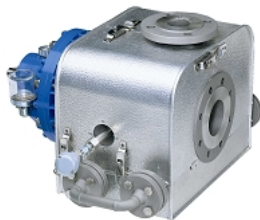
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## Sealless Hot Oil Pumps

Pumping heat transfer fluids provides a wide range of challenges to the end user. Many of the problems which often result in costly repairs and down time can be traced back to mechanical seal failures.

Klaus Union's sealless magnetic drive pumps provide a reliable, safe and cost effective solution for these problems by eliminating the rotating mechanical seal of a traditional centrifugal pump.

Our high performance magnetic couplings handle product temperatures up to 840 °F (450 °C) without cooling.

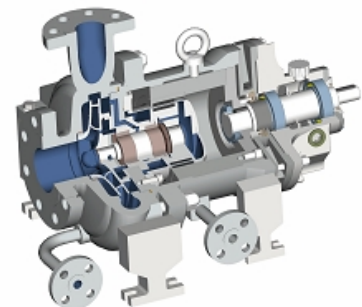


This allows to insulate the pump which makes it safer and increases the efficiency of the whole system, since no cooling is required and no heat energy is stolen from the system.

In fact, Klaus Union's mag drive pumps contribute energy to the system, making the pump even more efficient since magnetic losses (Eddy Currents) are introduced directly as heat into the heat transfer fluid.

It is often overlooked, how significant these energy savings actually are. With rising energy costs these savings add up over time and make the pump pay for itself within a matter of years.

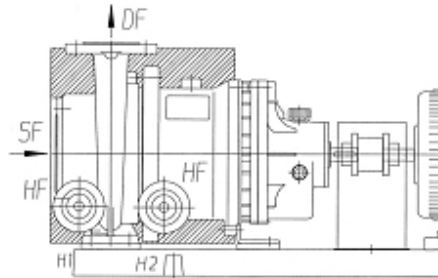
By design Klaus Union's sealless magnetic drive pumps require very little maintenance to provide many years of trouble-free service. Merely two oil lubricated anti-friction bearings, supporting the outer magnet carrier in the drive frame, require simple maintenance.



## Klaus Union's Sealless Advantage:

- ▶ Elimination of mechanical seal increases reliability and avoids costly repairs and down-time
- ▶ Low maintenance design reduces life cycle costs
- ▶ High performance magnets handle up to 840 °F without cooling
- ▶ Insulation of the pump prevents costly loss of energy which increases the over-all efficiency of the whole system
- ▶ Heat from Eddy Currents supports the system and increase pump efficiency
- ▶ Insulation of the pump eliminates risk of injury from hot surfaces
- ▶ With over 60 years of experience and over 65,000 installed mag drive pumps Klaus Union is your partner of choice when leakage is no option
- ▶ Klaus Union offers the widest range of sealless magnetic drive application coverage

Flow rates up to 15,000  
Delivery heads up to 3,000 ft TDH  
System pressure up to 5,800 psi  
Product temperature up to 840 °F without cooling



**When Leakage is no Option - Trust the Specialist!**

**sealox**  
Sealless Technology