

## The SYT Range for Thermal Oil and Hot Water Applications



### Applications:

- Heat transfer systems (DIN 4754, VDI 3033)
- Hot water circulation

### More information:

[www.ksb.com/products](http://www.ksb.com/products)

Etanorm SYT



Etanorm SYT



Etaline SYT



Etabloc SYT



Etanorm RSY

# The SYT Range for Thermal Oil and Hot Water Applications

## Reliability and safety

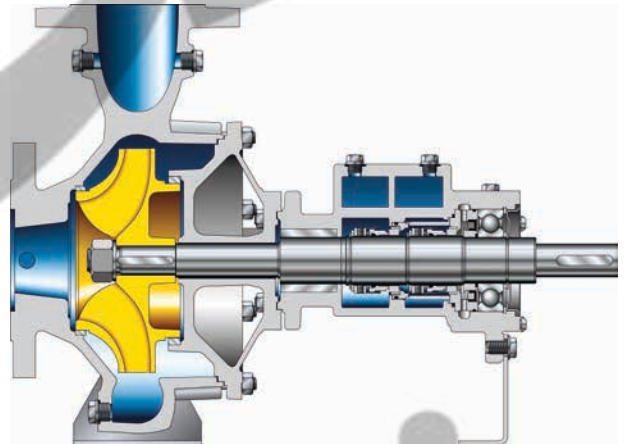
- Designed to deliver reliable operation with mineral and synthetic thermal oils up to 350 °C
- Reliable venting during pump operation thanks to patented KSB VenJet® technology
- KSB single mechanical seals and double mechanical seals in tandem arrangement with quench system deliver maximum operating reliability.
- More safety and reliability enhancing features: additional shaft seal ring; special contour ensuring reliable removal of fluid leakage at the mechanical seal; resistant bearings packed with special grease; confined sealing elements and effective heat barrier

## Customisable and efficient

- Meeting individual requirements with maximum efficiency: impeller trimming as standard; variable speed operation / intelligent control by KSB frequency inverters and a wide range of KSB motors up to IE5; high level of hydraulic efficiency verified experimentally and by CFD.
- The „cracked-joint“ design of the coupling hubs enables straightforward assembly and dismantling of the coupling. The double Cardan coupling provides even better compensation for shaft offset (optional).
- The fan impeller ensures efficient cooling (optional for Etanorm SYT).
- Wide range of applications possible: EN PN 16 & ASME; ATEX-compliant version available; plain bearings available in carbon/SiC and SiC/SiC (for demanding fluids); certified for marine applications to DNV GL

## Ease of monitoring and servicing

- Continuous leakage monitoring by KSB Leakage Sensor using mechanical measurement principle. This allows maintenance to be planned and avoids unscheduled downtimes – Predictive maintenance
- Best possible maintenance and low pump repair costs due to casing wear rings and forcing screws
- Service-friendly back pull-out design allows casing to remain in the system during maintenance.
- Standard connections for vibration and temperature measurement. Sensor kit can be ordered together with the pump.



The information provided mainly refers to Etanorm SYT, different data may apply to other type series.

### Materials

Volute casing	EN-GJS-400-15 / 536 GR 60-40-18
Discharge cover	EN-GJS-400-15 / 536 GR 60-40-18
Shaft	1.4021 + QTHRC55
Impeller*	EN-GJL-250 / A 48 CL 35B
Casing wear rings	GG
Bearing bracket	EN-GJS-400-15 / 536 GR 60-40-18

\* Impellers secured by Nord-Lock washers

### Technical data\*\*

		Etabloc SYT	Etaline SYT	Etanorm SYT/RSY	
Flow rate up to		280/337	316/228	1,900/2,280	m³/h
Head up to		68/99	69/101	102/90	m
Fluid temperature	Thermal oil	-30 to +350	-30 to +350	-30 to +350	°C
	Hot water	-30 to +180	-30 to +180	-30 to +180	
Operating pressure up to		16	16	16	bar

\*\* Data for 50 Hz/60 Hz

Optional automation with PumpDrive



KSB SE & Co. KGaA  
Johann-Klein-Straße 9  
67227 Frankenthal (Germany)  
www.ksb.com