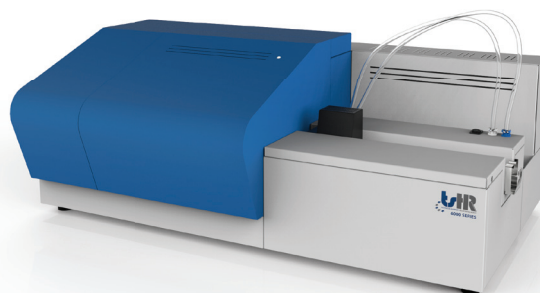# TS 6000

TSHR international introduces the Total Sulfur analyser, model TS 6000, as a trace level analyser that gets you the necessary data quickly, reliable and accurately. The TS 6000 is matrix independent and complies fully with the international industrial and environmental standards.

The TS 6000 provides the following benefits:

- **Versatility.** The TS 6000 analyses solid samples from very low levels (30 ppb) to very high concentrations (5.000 - solids, 10.000 liquids ppm)
- **Flexibility.** The TS 6000 is easily adaptable to new types of analyses (from sulfur to chlorine)
- **Productivity.** The TS 6000 works around the clock, equipped with a HR 7000 liquid auto sampler directly into the boat module
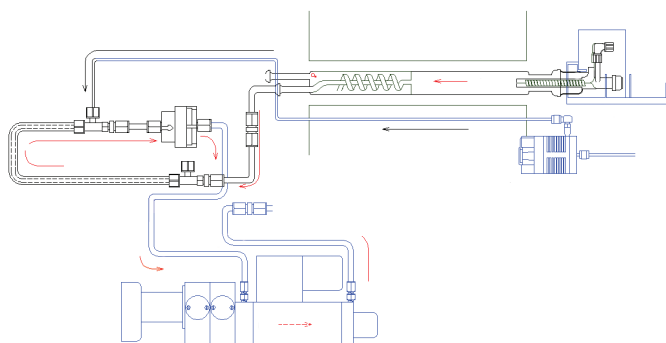- **Reliability.** The TS 6000 ensures complete combustion with minimum maintenance

TSHR TS 6000 Analyser

The TSHR TS 6000 analyser incorporates a high-end pulsed UV fluorescence detector which provides superior stability and detection limits. Combined with excellent uptime, matrix independence, exceptional linearity and enhanced performance, the TS 6000 is the ideal solution for both demanding and routine applications.

Key advantages of the TS 6000 with TS UV module are:

- Increases quality control performance and reduction of operational costs
- Fully meets ASTM D5453, D6667 and D7183 approved sulfur methodology
- Performance down to 30 ppb for typical applications
- Extended life-time of UV-lamp due to auto gain control technology (AGC)
- No loss of sensitivity because of serial measurement (TS-UV + TN)

Solids module

For analysis of heavy hydrocarbons and solid samples, the TSHR boat introduction module is the key. The automatic boat driven concept controlled by Athena software, provides the optimum solution for many applications. The high sample load capacity and integrated septum stopper minimizes weighing errors and eliminates problems caused by non-homogeneous samples. The module is supported with quick gas connectors for oxygen and cariergas (As/He).

Extra options:
The TS 6000 can be expand with a chlorine TX module.

* Flowpath TS 6000

ANALYTICAL SPECIFICATIONS

Parameter	TS Liquids	TS Solids
Working ranges	0,03 – 10.000 ppm	0,5 – 5.000 ppm
Detection Limit	30 ppb	30 ppb
Sample Matrix	Heavy hydrocarbons, plastics, Solids	
Quantity of sample	0,1 – 100 mg	
Analysis time	4-10 minutes	
Relative standard deviation	< 5%	

TECHNICAL SPECIFICATIONS:

Parameter	6000 series
Dimensions	960 (W) x 390 (H) x 590 (D) mm
	37,7 (W) x 15,4 (H) x 23,2 (D) inches
Furnace Voltage	2 x 24 V, 50/60 Hz
Furnace power	2 x 300 W
Furnace Temperature Sensor	2 x Ni-Cr/Ni
Furnace configuration	Dual temperature controlled
Furnace Temperature	1250 °C Max
Type of Analyses	Total Sulfur *(extra option: Total Halogens)*
Detection Principle	Pulsed UV-Fluorescence *(extra option: Coulometrics)*
PC operating system	Windows 7 or higher
Computer	Intel Core i3 / AMD Phenom or better
Software	Athena
Regulatory compliance	ASTM, IP, UOP, ISO

Facility Requirments

Voltage	115/230 V, 50/60 Hz
Power	1200W
Gas connector	1/8" swagelok
Gasses	O_2 (99,6%) medical grade 2.6
	Ar or He (99,998%) technial grade 4.8
Gas pressure	2 – 3 Bar (30-45 psi)
Ambient temperature	5 – 35 °C (41 – 95 °F)

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