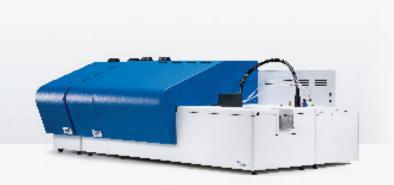
analyzer TX 6000

Sensitive and precise Total

Chlorine analysis with modular

ease-of-use Analyzer model

The TSHR Total Chlorine Analyzer, model TX 6000, is able to measure fast and precise low level chlorine concentrations in an extensive range of liquid hydrocarbon samples. The modularity of the analyzer with large capacity combustion tube, provide users a safe and ease-of-use total chlorine analysis solution for small and high sample throughput labs.



The sample is introduced by a fully integrated automatic boat/syringe driver, into a heated oxygen free environment to ensure a complete vaporization of the sample. The carrier gas ensures that the vaporized sample will carry into the combustion zone where oxygen will be added to complete the oxidation of the sample. After the dual zone combustion stage, the gasses go through an acid scrubber where all moisture and other potential interferences are removed.

The conditioned combustion gasses will flow towards the temperature controlled coulometric cell where the halide ions reacts with silver ions. The amount charge needed to regenerate the precipitated silver ions is directly related to the total chlorine/halide concentration. The compact cooled coulometric titration cell can handle up to at least 60 samples without refreshing of the electrolyte solution.

The TX 6000 Total Chlorine analyzer can be converted into a total sulfur micro-coulometric analyzer solution to meet typical ASTM methods.

Key advantages

Accurate, Fast and Reliable
Total Chlorine Data

Easy to use coulometric titration cell

Boat cooling option for challenging sample matrices

Enhanced application range for solids, liquids and LPG/Gasses



Analytical specifications

TX Liquids TX Solids

Sample introduction Syringe Liquid module Boat Solids module

Working range 0,1 – 10000 mg/kg 0,2 – 5000 mg/kg

Sample matrix Light hydrocarbons Heavy hydrocarbons, solids

Quantity of Sample1-100 uL0,1-100 mgAnalysis time3-6 minutes4-10 minutesRelative Standard Deviation*<3% (> 1 ppm)<5% (> 1 ppm)

Regulatory Compliance ASTM D4929, ASTM D5134, ASTM 5194, ASTM D5808, ASTM D7457, UOP 779

*Depend on typical application and sample matrix

Technical specifications

Furnace Voltage 2 x 24 V , 50/60 Hz

Furnace Power $2 \times 300 \, \text{W}$ Furnace Temperature Sensor $2 \times \text{Ni-Cr/Ni}$

Furnace configuration Dual temperature controlled

Furnace Temperature 1250 °C Max

Type of Analysis

Total Chlorine (optional Total Sulfur micro-coulometry)

Detection Principle

Micro Coulometric Titration (temperature controlled)

Dimensions 1017 x 390 x 590 mm (WxHxD)

PC operating system Windows 7 or higher

Computer Intel Core i3 / AMD Phenom or better

Software Athena

Optional Supply HR 7000 Liquid Autosampler for 2 mL vials, GM 7000 LPG / Gas Module

Total Sulfur (UV-Fluorescence) detection

Facility requirements

Voltage 115/230 V , 50/60 Hz

Power 1200 W

Gas connector 1/8" swagelok

Gasses O₂ (99,6%) medical grade 2.6 or

O₂ (99,995%) 4.5

Ar (99,998%) technical grade 4.8

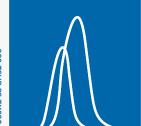
Gas pressure 2-3 Bar (30-45 psi) Ambient temperature 5-35 °C (41 -95 °F)

Contact info

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in combustion

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