

TSHR introduces the new generation of Total Nitrogen analysers for today's and tomorrow requirements

TN 7000

The best solution for environmental and petrochemical application challenges. Analyse the most extensive range of sample matrix (Gas, LPG and Liquid) with respect to international standards. All in combination with the new user friendly and intuitive Athena software.

TN 7000

The TSHR TN 7000 Total Nitrogen Analyzer is designed to measure nitrogen levels over a wide range of liquids sample types and nitrogen concentrations quickly and accurately. The TN 7000 is matrix independent and complies fully with DIN, ASTM, IP and CEN standards.

Specific compliant methods are:

ASTM D4629, ASTM D5762, ASTM 6069, ASTM D7184 and UOP 971.

Instrument Highlights:

Reliability:	The 5 years furnace life-time (compared to the standard 2 year offered by competitors) provides continuous productivity.
Performance:	Delivers low detection limits for when sensitivity matters.
Versatility:	Easily analyzes almost any sample type and concentration - from 20 ppb to 5000 pp.
Automation:	The TN 7000 will be delivered with the HR 7000 liquids auto sampler.

Total Nitrogen analysis is essential for lean, clean and responsible industries. Nitrogen containing compounds play an important role in the manufacture of chemicals, petrochemicals, foodstuffs and beverages. Levels of nitrogen emitted into the atmosphere are stringently controlled by worldwide pollution legislation aimed at reducing global warming. The control and measurement of nitrogen levels in industrial materials and processes is also critical for the repeatability, efficiency and quality of the finished product to be maintained.

Also available:

The TSHR TN/TS 7000 Analyzer:
Combine the power of the TN 7000 and TS 7000 analyzers in one powerful instrument for a broader analytical range. Perform simultaneous Total Nitrogen and Total Sulfur analyses easily and productively whilst using less laboratory space.



ANALYTICAL SPECIFICATIONS

Parameter	TN LIQUIDS
<i>Module</i>	Liquids organic
<i>Sample matrix</i>	Light hydrocarbons
<i>Quantity of sample</i>	1 - 100 µL
<i>Analysis time</i>	3 - 6 mins
<i>Working range</i>	30 ppb - 5000 ppm
<i>RSD</i>	< 5%
<i>Regulatory compliance</i>	ASTM, IP, UOP

TECHNICAL SPECIFICATIONS:

Parameter	TN 7000
<i>Furnace Voltage</i>	2 x 24 V, 50/60 Hz
<i>Furnace Power</i>	2 x 300 W
<i>Furnace Temperature Sensor</i>	2 x Ni-Cr/Ni
<i>Furnace configuration</i>	Dual temperature controlled
<i>Furnace Temperature</i>	1250 °C Max
<i>Type of Analyses</i>	Total Nitrogen
<i>Detection Principle</i>	Chemiluminescence
<i>PC operating system</i>	Windows 7 or higher
<i>Computer</i>	Intel Core i3 / AMD Phenom or better
<i>Software</i>	Athena
<i>Optional accessories</i>	Gas Injection Module

Facility Requirments

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

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