

TOC-3700

Total Organic Carbon Analyzer



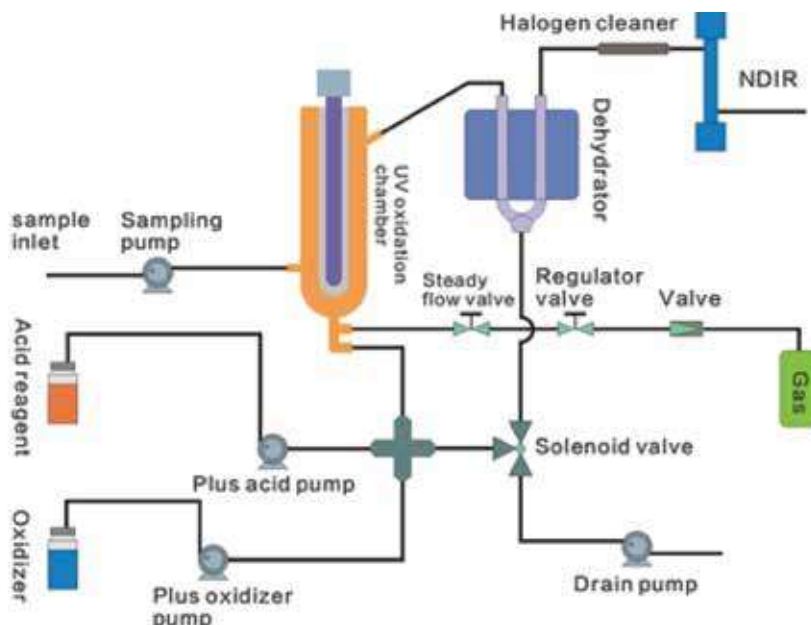
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Analytical Technologies Limited

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Uses UV persulfate oxidation-NDIR to detect the concentration of total organic carbon in water sample from 1ppb-100ppm, Has a high sensitivity, good accuracy and stability.



►► Fundamentals:

Subtraction : The samples by UV persulfate decomposed sufficiently oxidized into carbon dioxide and water, the dehydration condensation of the carbon dioxide measured by non-dispersive infra-red detector (NDIR), total carbon in the sample to determine the content of the TC ; agent via an acid decomposition of inorganic carbon in the sample carbon dioxide and water, dehydration condensation , with a non-dispersive infrared carbon dioxide detector (NDIR) measurement , the sample to determine the TIC of the total inorganic carbon content ; $TOC = TC - TIC$.

Direct method : First through the acid reagent inorganic carbon in the sample is decomposed into carbon dioxide and water to remove total inorganic carbon TIC; through UV persulfate sample decomposition of organic carbon into carbon dioxide and water , dehydrated condensed carbon dioxide by non-dispersive infrared detector (NDIR) measurement to determine the total carbon content in the sample of TOC

►► Specification:

Fundamentals:	UV persulfate oxidation - NDIR
Detect range:	0.001-100.0mg/L 1ppb-100ppb
TOC precision:	0.001mg/L 1ppb
Accuracy error:	$\leq \pm 5\%$
Repeatability error:	$\leq \pm 3\%$
Span drift:	$\leq \pm 2\%/D$
Zero drift:	$\leq \pm 2\%/D$
Conductivity detection range:	
Showing Data:	TC,IC,TOC,NPOC
Response time:	3-8 mins
Injection method:	self-priming electromagnetic pump
reagent:	Phosphoric acid, persulfate

Carrier gas:	High purity nitrogen
Communication:	No external
Display and operator:	7 inches touch screen
data storage:	2-year data (date measured 500 times)
printer:	Embedded dot matrix printer
Options:	Autosampler Online device Dilution module
power:	220V AC $\leq \pm 10\%$ 50Hz
output:	150W
Ambient temperature:	0-40 degree Celsius
Dimensions (w*D*H mm):	380 x 300 x 320
weight	20Kg

►► Product Features:

- Twin tube electronic condensate dehydration
- Detection mode : TC, TIC, TOC, NPOC, three detection mode in the same reaction vessel
- A highly reflective gold plating chamber , an infrared light source and condensing the high sensitivity of the infrared detector, to ensure superior performance NDIR ppb level data measured with sufficient sensitivity and precision
- Real-time detection of curves visible
- 50-5000 μ L Autosampler , precision solenoid metering pumps , injection volume 50-5000 μ L
- Multiple temperature , pressure, flow in real-time self-monitoring function
- Embedded 7-inch touchscreen
- Built-in dot matrix printer
- Suitable for measuring high-salt samples
- Especially suitable for high proportion of total inorganic carbon in water samples TOC detection
- Configuring online modules , online monitoring

►► Application:

- Water for injection, purified water.
- Cleanliness verify wash water.
- Tap water, surface water
- Chemical water (washing water , cooling water, recycled water, etc.)
- Laboratory research

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
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1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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