QP1680 TOC/TN_b High-Temperature Laboratory Analyzer





The QP1680 Analyzer measures Total Organic Carbon (TOC) and Total Nitrogen (TN_b) in one sample.

The QP1680 is available as a combined TOC and TN_b analyzer or for the individual parameters TOC or TN_b .

The most important features include:

- Direct sample injection eliminates sample contact with valves and the built-in injection syringe, which minimizes the risk of sample carry-over.
- \bullet Large diameter sample aspiration tubing can handle particles up to 800 μm , expanding possible applications and reducing clogging.
- Integrated stirrer for each sample position homogenizes particle-containing samples before injection.
- Small footprint with integrated 65-position auto-sampler requires less space in the laboratory (an auto-sampler with 96 positions is also available as an alternative).
- Simple operation, data analysis and system diagnosis thanks to an intuitive software package.



Technical Data*

Model	QP1680-TOC	QP1680-TOC/TN _b	QP1680-TN _b	
Parameter	TOC	TOC, TN _b	TN _b	
Oxidation Method	Catalytic combustion at 680 °C	Catalytic combustion at 720 °C	Catalytic combustion at 720 °C	
Measurement Method	NDIR (non-dispersive Infrared Detection)	TOC: NDIR (non-dispersive Infrared Detection) TN: Chemiluminescence	Chemiluminescence	
Analysis time	Approx. 3 minutes	Approx. 4 minutes	Approx. 3 minutes	
Gas sonsumption	150 mL/min**	200 mL/min**	200 mL/min	
	**Sample preparation for NPOC determination requires additional 300-350 mL/min.			
Gas specifications	Oxygen or synthetic air: minimum 99.998% (4.8) at 3 - 10 bar			
Temperature	Furnace temperature max. 1050 °C (depending on configuration)			
Range	TC, TIC, NPOC, TN _b : 0 - 30000 mg/L			
Lower Limit of Detection (LOD)	TC, TIC, NPOC: 50 µg/L TN _b : 20 µg/L			
Repeatability	Up to 10 mg/L TC, TIC, NPOC, TN: < 5% > 10 mg/L TC, TIC, NPOC, TN: < 2%			
Sample Volume		10 - 1000 μL		
Ambient Temperature		-20 - 60 °C		
Operating Conditions	20 - 30 °C; 20 - 80% relative humidity (non-condensing)			
Pollution Degree		2		
Norms and Standards	TOC / NPOC: ASTM D7573, EN 1 TN _b : ASTM E	1484, EPA 415.1, EPA 9060A, ISO 8 08083, EN 12260, ISO 11905-2, NE	3245, SM 5310B, NEN-ISO 20236 N-ISO 20236	
Power Supply	Analyzer: 100 - 240 VAC, 50/60 Hz, 16 A, with protective grounding PC: 100 - 240 VAC, 50/60 Hz, 1.6 A, with protective grounding Monitor: 100 - 240 VAC, 50/60 Hz, 1.6 A, with protective grounding			
Power	Analyzer: 750 W max. PC: 90 W max. Monitor: 100 W max.			
Dimensions	44(0 mm x 380 mm x 700 mm (H x W >	< D)	

*Subject to change without notice.

Order Information

Analyzers

LPV448.99.00001	QP1680 High-Temperature TOC Analyzer, with auto sampler, 65 positions
LPV448.99.00501	QP1680 High-Temperature TOC Analyzer, with auto sampler, 96 positions
LPV448.99.01001	<code>QP1680</code> High-Temperature TOC/TN $_{\rm b}$ Analyzer, with auto sampler, 65 positions
LPV448.99.01501	QP1680 High-Temperature TOC/TN _b Analyzer, with auto sampler, 96 positions
LPV448.99.02001	QP1680 High-Temperature TN _b Analyzer, with auto sampler, 65 positions
LPV448.99.02501	QP1680 High-Temperature TN _b Analyzer, with auto sampler, 96 positions

Consumables & Spare Parts

SMKIT500000	QP1680 TOC/TN _b Starter Package
SMKIT501000	QP1680 Consumables Kit, 2500 analysis
SMKIT501100	QP1680 Consumables Kit, 5000 analysis
SMKIT501200	QP1680 Consumables Kit, 10000 analysis
SMSYS503000	Solids Module for QP1680 TOC/TN _b Analyzer
SMKIT503000	Solids Module Starter Package for QP1680 TOC/TN





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Computer

SMCOM100102.99	Desktop Computer incl. Windows and Display
SMCOM100700	LIMS License Key for TEIS Software

Hach Service

TRX21750-2	2 Day on-site QP1680 Lab TOC/TN $_{\rm b}$ commissioning, calibration and certification
TRX21750-3	3 Day on-site QP1680 Lab TOC/TN $_{\rm b}$ commissioning, calibration, certification and application specific configuration
PMP-QP1680-1V	Preventive Maintenance Partnership, QP1680 Lab TOC/TNb, 1 Visit
FSPQP1680	Field Service Partnership, QP1680 Lab TOC/TN _b , 1 Visit



With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

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