

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.*
- *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.*



Order Information

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	QP1680 High-Temperature TOC/TN _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 _b

Computer

SMCOM100700	LIMS License Key for TEIS Software
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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 consumption	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 Range	Furnace temperature max. 1050 °C (1922 °F) (depending on configuration) 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		
Sample Volume	10 - 1000 µL		
Operating Conditions	20 - 30 °C (68 - 86 °F); 20 - 80% relative humidity (non-condensing)		
Norms and Standards	TOC / NPOC: ASTM D7573, EN 1484, EPA 415.1, EPA 9060A, ISO 8245, SM 5310B, NEN-ISO 20236 TN _b : ASTM D8083, EN 12260, ISO 11905-2, NEN-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		
Dimensions	440 x 380 x 700 mm / 17.3 x 15 x 27.6 in. (H x W x D)		

*Subject to change without notice.