



QP1680 High-Temperature TOC/TNb Laboratory Analyser, with auto sampler, 96 positions

Product #: LPV448.99.01501

AED Price: Contact Hach

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

The QP1680 is available as a combined TOC and TN_b analyser 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.

Specifications

Ambient temperature:	-20 - 60 °C
Analysis time:	Approx. 4 minutes
Detection limit:	TC, TIC, NPOC: 50 µg/L
	TNb: 20 µg/L
Dimensions:	440 mm x 380 mm x 700 mm (H x W x D)
Gas consumption:	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
Measurement method:	TOC: NDIR (non-dispersive Infrared Detection)

	TN: Chemiluminescence
Measuring range:	TC, TIC, NPOC, TN _b : 0 - 30000 mg/L

Model: QP1680-TOC/TN_b

Norms: 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

Number of sample positions:	96
Operating conditions:	20 - 30 °C; 20 - 80% relative humidity (non-condensing)
Oxidation method:	Catalytic combustion at 720 °C
Parameter:	TOC, TNb
Pollution degree:	2
Power:	Analyser: 750 W max. PC: 90 W max. Monitor: 100 W max.
Power supply:	Analyser: 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
Repeatability:	Up to 10 mg/L TC, TIC, NPOC, TN: < 5% > 10 mg/L TC, TIC, NPOC, TN: < 2%
Sample volume:	10 - 1000 µL
Temperature:	Furnace temperature max. 1050 °C (depending on configuration)
Warranty:	24 months
Weight:	Approx. 32 kg
What's included?:	TOC/TNb Instrument Sample tray with 96 positions for 24 mL vials Glass sample vials 24 mL (100 pcs) USB 2.0 cable A-B Set of tubing PTFE blue-stripe 1/8" OD length 2 m including nut & ferrule Reagent container with screwcap for UPW, Acid and Waste Power cord USB storage device with software, test results and Full User Manual Printed User Manual

What's included?

TOC/TNb InstrumentSample tray with 96 positions for 24 mL vialsGlass sample vials 24 mL (100 pcs)USB 2.0 cable A-BSet of tubing PTFE blue-stripe 1/8" OD length 2 m including nut & ferruleReagent container with screwcap for UPW, Acid and WastePower cordUSB storage device with software, test results and Full User ManualPrinted User Manual

Required Accessories

- QP1680 TOC/TNb Starter Package (Item SMKIT500000)