



## QP1680 High-Temperature TN<sub>b</sub> Laboratory Analyser, with auto sampler, 96 positions

**Product #:** LPV448.99.02501

**AED Price:** Contact Hach

The QP1680 is available as a combined TOC and TN<sub>b</sub> analyser or for the individual parameters TOC or TN<sub>b</sub>.

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.

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### Specifications

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|-----------------------------|--|
| Ambient temperature:        | -20 - 60 °C  |
| Analysis time:              | Approx. 3 minutes  |
| Detection limit:            | TN: 20 µg/L  |
| Dimensions:                 | 440 mm x 380 mm x 700 mm (H x W x D)                                 |
| Gas consumption:            | 200 mL/min   |
| Gas specifications:         | Oxygen or synthetic air: minimum 99.998% (4.8) at 3 - 10 bar         |
| Measurement method:         | Chemiluminescence  |
| Measuring range:            | TN <sub>b</sub> : 0 - 30000 mg/L                                     |
| Model:                      | QP1680-TN <sub>b</sub>   |
| Norms:                      | TN <sub>b</sub> : 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:                  | TN <sub>b</sub>  |
| Pollution degree:           | 2  |
| Power:                      | Analyser: 750 W max.<br><br>PC: 90 W max.<br><br>Monitor: 100 W max. |

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|-------------------|---|
| 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. 29 kg   |
| What's included?: | 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   |

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### Required Accessories

- QP1680 TOC/TNb Starter Package (Item SMKIT500000)