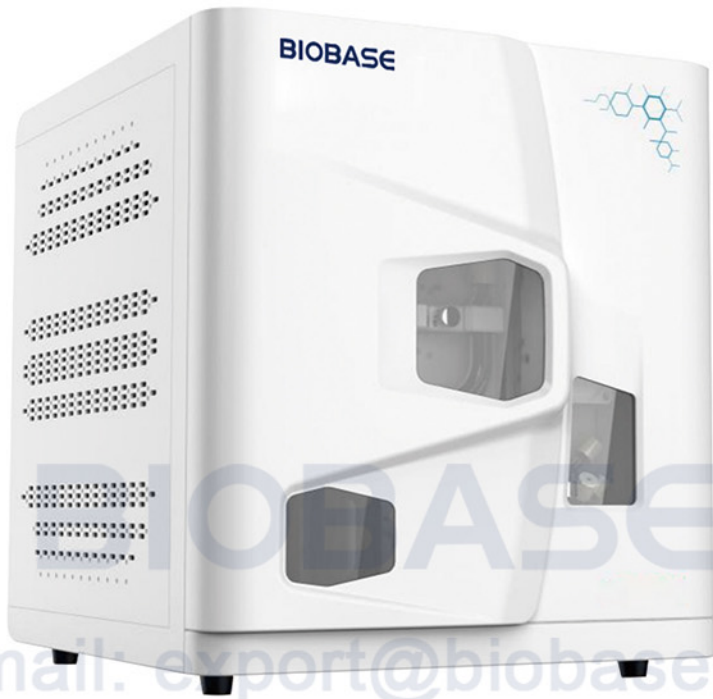


Total Organic Carbon Analyzer



Features:

- \* Auto sample dilution, auto acid-adding and auto gas purging(BK-TOC5000RD).
- \* 680°C catalytic oxidation technology with platinum catalyst, especially for seawater test.
- \* NDIR detector, high sensitivity and stability.
- \* Optional autosampler.
- \* Multi-functional PC software.
- \* Precise gas flow control technology improves accuracy.
- \* PID temperature controlling technology, ensure higher accuracy.
- \* Unique three-stage dehydration technology improves drying efficiency.
- \* Personalized standard curve management provides great convenience for users.
- \* Consumables management reminds users to replace consumables in time.
- \* Modular design, simplifying device operation and maintenance.
- \* TOC-LAB software is optional, which complies with FDA-21 CFR Part11 requirements and USP.

Introduction:

Total Organic Carbon (TOC) analyzer is an instrument used for the accurate determination of the total amount of organic carbon in a sample. Its core principle involves converting the organic carbon in the sample into easily detectable carbon dioxide (CO<sub>2</sub>), followed by quantitative analysis of CO<sub>2</sub> to infer the TOC content in the sample. Widely applied in various fields such as water quality monitoring, environmental governance, food and pharmaceuticals, and electronic semiconductors, this instrument is a key device for assessing the degree of organic pollution, purity, and quality control of samples.

Technical Parameters:

| Model                  | BK-TOC5000RN                                                                                                                          | BK-TOC5000RD                                                        |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Measurement Method     | High Temperature Catalytic Combustion                                                                                                 |                                                                     |
| Detector               | NDIR                                                                                                                                  |                                                                     |
| Analysis Parameter     | TC, TIC, TOC, NPOC                                                                                                                    |                                                                     |
| Control Mode           | PC software controlled                                                                                                                |                                                                     |
| Gas Requirement        | Oxygen, purity ≥99.995%                                                                                                               |                                                                     |
| Sample Type            | Liquid sample (AS-W20 is optional.); Solid sample(AS-S200 is a mandatory option.)                                                     |                                                                     |
| Measurement Range      | 0~1000mg/L, can extend to 0~100,000mg/L<br>(Manually dilution)                                                                        | 0~1000mg/L, can extend to 0~100,000mg/L<br>(Automatically dilution) |
| Limit of Detection     | TC: 50µg/L; IC: 20µg/L                                                                                                                |                                                                     |
| Measuring Time         | TC: around 4min; IC: around 3min                                                                                                      |                                                                     |
| Max. Permissible Error | TOC: ± 5%; IC: ± 4%                                                                                                                   |                                                                     |
| Repeatability          | ≤3%                                                                                                                                   |                                                                     |
| Injection Volume       | TC: 100~500µl; IC: 100~2000µl                                                                                                         |                                                                     |
| Optional Accessories   | Autosampler for liquid sample or solid sample,<br>Enhanced Halogen Removal Device,<br>Enhanced Halogen Removal Device-Metal Wire Mesh |                                                                     |
| Power Supply           | AC220V±10%, 50/60Hz(Standard); 110V±10%, 50/60Hz(Optional)                                                                            |                                                                     |
| Consumption            | 700W                                                                                                                                  |                                                                     |
| Package Size(W*D*H)    | Main Machine: 780*710*610mm; Accessories: 710*230*600mm                                                                               |                                                                     |
| Gross Weight           | Main Machine: 59kg; Accessories: 7kg                                                                                                  | Main Machine: 63kg; Accessories: 8kg                                |