

# Total Organic Carbon Analyzer



**HTOC-1500/1700/3000/5000**

## Comprehensive TOC Solutions

Designed for diverse applications ranging from ultrapure and pharmaceutical water to environmental water, seawater, liquid and solid samples.

NDIR

## Flexible Analysis Technologies

Multiple analytical configurations, including UV oxidation and high-temperature catalytic combustion, meet different sample and concentration requirements.

## Reliable & Sensitive Detection

High-sensitivity detection technologies provide stable, accurate and reliable TOC measurement for a wide range of applications.

## Smart & Efficient Workflow

Intuitive operation, PC software, automated functions and optional autosampling solutions help simplify routine analysis and improve laboratory efficiency



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## Exterior View



HTOC-1500  
HTOC-1700 (Online Model)

## Product Advantages



Ideal choice to measure microelectronics water, purified water, ultra pure water and water for injection, etc.



Smart 7 inches touch screen with user-friendly UI, easy to operate and read data.



UV Oxidation by UV Lamp, no need to add acid, gas or catalyst, greatly reduced experiment cost.



Equipped with sensitive conductivity detector to quantify TOC concentration accurately.



Online mode to realize real-time monitoring (HTOC-1700).



One button sampling, less sample contamination, no harm on operator and environment.



Optional PC software, comply with FDA 21 CFR Part 11 requirements and USP, EP, ChP and JP.



Optional 20-position autosampler.



8 GB large storage capacity, no restriction of data and time.



All historical records can be traced by searching test date.



Data can be retrieved and saved to USB disk directly.



Equipped with bluetooth printer for quick data printing.



Modular design for quick installation and easy maintenance.

## Standard Accessories



| Model                   | HTOC-1500                 | HTOC-1700 |
|-------------------------|---------------------------|-----------|
| Measurement Range       | 1-1500ppb                 |           |
| Detection Limit         | 1ppb                      |           |
| Max Tolerance           | ±5%                       |           |
| Analysis Time           | 3 min                     |           |
| Response Time           | within 10 min             |           |
| Sample Flow Speed       | 2mL/min                   |           |
| Repeatability Tolerance | ≤ 3%                      |           |
| Power Requirement       | AC110/220V, 50/60Hz, 100W |           |

## Exterior View



HTOC-3000

## Product Advantages

### NDIR

NDIR detector, high sensitivity and stability.



Automatic leakage detection system not only avoids the misoperation, but also improves device performance and safety.



Optional autosampler.



Multi-functional PC software.



Precise gas flow control technology improves accuracy.



Modular design, simplifying device operation and maintenance.

## Technical Specification

| Model              | HTOC-3000                        |
|--------------------|----------------------------------|
| Measurement Method | Wet Chemical Oxidation by UV     |
| Detector           | NDIR                             |
| Analysis Parameter | TC, TIC, TOC, NPOC               |
| Control Mode       | PC Control                       |
| Gas Requirement    | Nitrogen, purity $\geq 99.995\%$ |
| Sample Type        | Liquid Sample                    |
| Measurement Range  | 0-10000mg/L (ppm)                |
| Detection Limit    | 5 $\mu$ g/L (ppb)                |
| Repeatability      | 3%                               |
| Maximum Salinity   | 85g/L                            |
| Power Requirement  | AC110/220V, 50/60Hz, 200W        |

## Exterior View



HTOC-5000

## Product Advantages



Auto sample dilution, auto acid-adding and auto gas purging.



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.



Data can be retrieved and saved to USB disk directly.



Equipped with bluetooth printer for quick data printing.



Modular design for quick installation and easy maintenance.

## Technical Specification

| Model                  | HTOC-5000                                                                |
|------------------------|--------------------------------------------------------------------------|
| 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.)<br>Solid sample (AS-S200 is needed.) |
| Measurement Range      | 0-1000mg/L, can extend to 0-100,000mg/L<br>(Automatically dilution)      |
| Limit of Detection     | TC: 50µg/L<br>IC: 20µg/L                                                 |
| Measuring Time         | TC: around 4min<br>IC: around 3min                                       |
| Max. Permissible Error | TC: ± 5%<br>IC: ± 4%                                                     |
| Repeatability          | ≤3%                                                                      |
| Injection Volume       | TC: 100-500µL<br>IC: 100-2000µL                                          |
| Power Requirement      | AC110/220V, 50/60Hz, 700W                                                |

## Exterior View

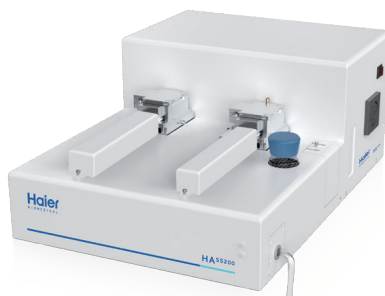


HAS-W20

## Technical Specification

| Model                   | HAS-W20                                    |
|-------------------------|--------------------------------------------|
| Sample Type             | Liquid sample                              |
| Max. Number of Samples  | 19 sample positions an 1 cleaning position |
| Volume of Sample Bottle | 60mL                                       |
| Ambient Temperature     | 0-40°C                                     |
| Relative Humidity       | ≤85%                                       |
| Power                   | AC100-240V, 50/60 Hz, 120W                 |

## Exterior View



**HAS-S200**

## Technical Specification



| Model                  | HAS-S200                                                                |
|------------------------|-------------------------------------------------------------------------|
| Sample Type            | Solid or suspension liquid sample                                       |
| Control Mode           | PC software controlled                                                  |
| Analysis Parameter     | TC, TIC, TOC (TC-IC)                                                    |
| TC Measurement Method  | High temperature catalytic combustion<br>(900°C, Max.1000°C)            |
| TIC Measurement Method | Acidification at 200°C                                                  |
| Sample Carrier         | Quartz boat                                                             |
| Gas Requirement        | Oxygen, purity≥99.995% ( TOC analyzer provides)<br>Flow rate: 500mL/min |
| Measurement Range      | 0.1-30.0mg                                                              |
| Max. Sample Volume     | Solid: 1.0g<br>TC liquid: 0.5mL<br>IC liquid: 0.3mL                     |
| Measurement Time       | 5-8min                                                                  |
| Power                  | AC100-240V, 50/60 Hz, 1000W                                             |

