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TOC ANALYZER

TOTAL ORGANIC CARBON ANALYZER /

Infitek

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TOC / Total Organic Carbon Analyzer

TOC-M1700 TOC-M1500

TOC-M1700:

Is able to work under on-line mode to realize real-time monitoring.

Online and offline mode can be easily switched.

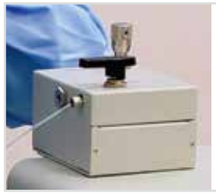
TOC-M1700

TOC-M1500

Specifications

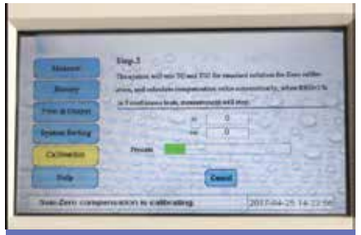
Model	TOC-M1700	TOC-M1500
Detection Range	0.001-1.5mg/l	
Detection Limit	1ppb	
Max Tolerance	±5%	
Analysis Time	3 min	
Response Time	Within 10 min	
Sample Temperature	1-95°C	
Environment Temperature	10-40°C with temperature change ±5 ®C/d	
Sample Flow Speed	1 ml/min	
Relative Humidity	0.985	
Repeatability Tolerance	≤3%	
Drifting	±5%	
Power Supply	AC 220V, 50/60HZ or AC 110V, 50/50Hz	
Frequency	50/60HZ	
Dimension	440*220*300mm	
Rated Power	100W	
Package Dimension (W*D*H)	620*480*430mm	
G.W.	17.3kg	

Advantages



Equipped with conductivity detector to quantify TOC concentration

Ideal choice to measure and monitor micro-electronics water, purified water, water for injection, etc.



UV oxidation by UV lamp, no need to add acid, gas or catalytic, greatly reduces the experiment and maintenance cost.

Modular design for quick installation and easy maintenance.

Automatic sample introduction with one-button setting, no sample contamination, no harm on operator and environment.

Auto sampler is optional according to different experiment requirements.

- 7 inches touch screen with smart UI, easy to operate and read test data.
- 8GB large storage capacity, no restriction of data and time.
- Quick test, each analysis takes less than 3 minutes.
- All historical records can be traced by searching test date.
- Data can be retrieved and saved to USB directly.
- Equipped with Bluetooth printer for quick and easy data printing.

TOC / Total Organic Carbon Analyzer

TOC-M2000 **TOC-M5000**

TOC-M2000

TOC-M5000

Features

- Auto sample dilution, auto acid-adding and auto gas purging (TOC-M5000).
- 680℃ 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.

Specifications

Model	TOC-M2000	TOC-M5000
Detector	NDIR	
Parameters	TC, TIC, TOC, NPOC	
Digestion Mode	High Temperature Combustion	
Operation Mode	PC software Control	
Application	Liquid Sample (AS-L20 is optional.) Solid sample (AS-S200 is needed.)	
Gas Requirement	Oxygen ≥ 99.995%	
Measurement Range	0-1000mg/L, can extend to 0-100,000mg/L (manually dilution)	0-1000mg/L, can extend to 0-100,000mg/L (Automatically dilution)
Detection Limit	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	
Power	AC110/220V, 50/60Hz, 700W	

TOC / Total Organic Carbon Analyzer

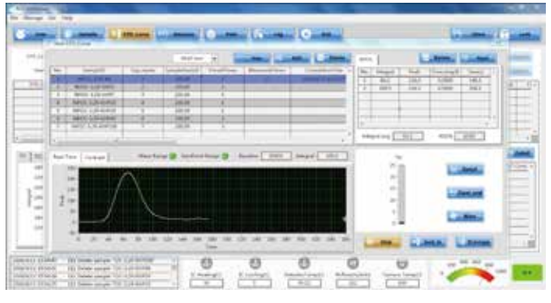
TOC-M3000

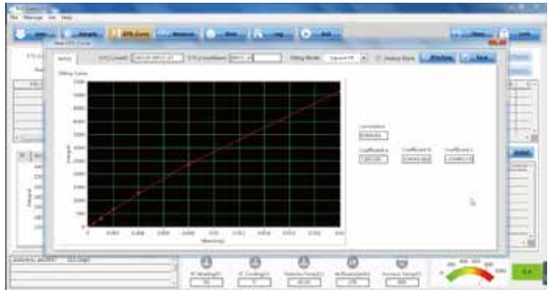
Specifications

Model	TOC-M3000
Detector	NDIR
Parameters	TC, TIC, TOC, NPOC
Method	Wet Chemical Oxidation by UV
Operation Mode	PC Control
Application	Liquid Sample
Gas Requirement	Nitrogen ≥99.995%
Measurement Range	0-10000mg/l(ppm)
Detection Limit	5μg/l (ppb)
Repeatability	0.03
Maximum Salinity	85g/l
Power	AC220V, 50Hz or AC110V, 60HZ, 200W
Size	430*455*440mm

Advantages

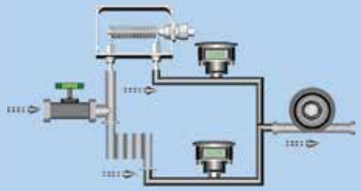
- Different temperature setting for various samples ensures complete sample digestion so as to get more accurate measuring data.
- Adjust cooling module power according to sampling volume which improves drying performance to ensure dry gas into the detector.
- Automatic leaking check system to avoid operation mistakes, also improves instrument performance and ensures operation safety.
- Flow rate-controlling system to avoid any effect caused by flow rate fluctuation which ensures accurate data.
- Low current system design also ensures operation safety.
- TOC detector with 24 bits data solution extends monitoring range. Controlling a system with 32bin processing technology greatly improves performance.
- Signal management system with our own patent law which has great advantages of online setting, real-time monitoring, self-testing, and flow speed control to ensure high performance and safe operation.





TOC Analyzer

TOC-Q600



Working Principle

The Total Organic Carbon Analyzer oxidizes slowly flowing water samples using a UV lamp, determining the TOC value of the water sample by measuring the change in conductivity before and after oxidation. Under the action of a peristaltic pump, the water sample enters the Teflon tubing and sequentially passes through the first electrode, the quartz spiral tube, and the second electrode, before finally being discharged through the waste tube. During detection, the conductivity values from both sensors are simultaneously collected to obtain G1 and G2. Organic matter in the water sample generates CO_2 under the action of the dual UV lamps, causing the conductivity to rise. The corresponding total organic carbon is calculated via the differential value (G2 - G1).

Description

The Total Organic Carbon Analyzer is an analytical instrument used to determine total organic carbon concentration in water samples. It can analyze water samples with TOC concentrations ranging from 0.1μg/L to 1500.0μg/L, featuring high sensitivity, excellent accuracy, and reliable stability.

5.6-inch touch screen

Built-in dot-matrix printer

4-20mA communication interface

Side-opening cover for easy consumable replacement.

Optional autosamplers available to save labor:

24-position / 30-position / 81-position

Features

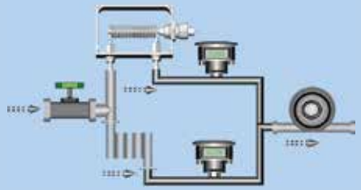
- High detection accuracy and low detection limit.
- Touch screen design and user-friendly interface for simple and convenient operation.
- Conductivity temperature compensation technology improves detection accuracy.
- No carrier gas or reagents required, simplifying maintenance and reducing costs.
- Independent system suitability test interface for more user-friendly operation.
- The detection curve is visible in real time, making it more intuitive.
- Large data storage capacity for convenient queries, searchable by date.
- Built-in dot-matrix printer to reduce space footprint.
- UV lamp lifetime countdown for easy lamp replacement and maintenance.
- Features an alarm output for exceeding the upper limit.
- Supports external 4-20mA communication.
- Optional online sampling device, enabling automatic online monitoring of water systems.
- Optional automatic calibration kit for one-key automatic calibration and system suitability testing.
- Optional autosampler for unattended operation, saving labor and time.

Specification

Model	TOC-Q600
TOC Detection Range	0.1 μg/L-1500.0 μg/L
Conductivity Detection Range	0.055-6.000 μS/cm
Analysis Time	Minimum 1-minute analysis interval (can be set arbitrarily)
Accuracy Error	±4%
Repeatability Error	≤2%
Response Time	Within 6 minutes
Sample Temperature	0-100 ℃
TOC Detection Resolution	0.1 μg/L
Zero Drift	±2%/D
Span Drift	±2%/D
Power Supply	220±22V AC, 50±1Hz
Power	60W
Ambient Temperature	0-60 ℃ ±5 ℃/D
Relative Humidity	≤90%
External Dimensions	300*200*190mm
Net Weight	8.3kg

TOC Analyzer

TOC-Q600GS



Working Principle

The Total Organic Carbon Analyzer oxidizes slowly flowing water samples using a UV lamp, determining the TOC value of the water sample by measuring the change in conductivity before and after oxidation. Under the action of a peristaltic pump, the water sample enters the Teflon tubing and sequentially passes through the first electrode, the quartz spiral tube, and the second electrode, before finally being discharged through the waste tube. During detection, the conductivity values from both sensors are simultaneously collected to obtain G1 and G2. Organic matter in the water sample generates CO_2 under the action of the dual UV lamps, causing the conductivity to rise. The corresponding total organic carbon is calculated via the differential value (G2 - G1).

Features

- High detection accuracy and low detection limit.
- Conductivity temperature compensation technology improves detection accuracy.
- No carrier gas or reagents required, simplifying maintenance and reducing costs.
- Independent system suitability test interface for more user-friendly operation.
- UV lamp lifetime countdown for easy lamp replacement and maintenance.
- Features an alarm output for exceeding the upper limit.
- Optional automatic calibration kit for one-key automatic calibration and system suitability testing.
- Optional autosampler for unattended operation, saving labor and time.

Description

The Total Organic Carbon Analyzer is an analytical instrument used to determine total organic carbon concentration in water samples. It can analyze water samples with TOC concentrations ranging from 0.1μg/L to 1500.0μg/L, featuring high sensitivity, excellent accuracy, and reliable stability.

Compact and convenient

Screenless design for easy daily cleaning and maintenance.

Windows-based operating system with complete audit trail functionality.

Optional autosamplers available to save labor:

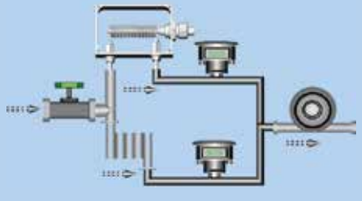
24-position / 30-position / 81-position

Specification

Model	TOC-Q600GS
TOC Detection Range	0.1 μg/L-1500.0 μg/L
Conductivity Detection Range	0.055-6.000 μS/cm
Analysis Time	Minimum 1-minute analysis interval (can be set arbitrarily)
Accuracy Error	±4%
Repeatability Error	≤2%
Response Time	Within 6 minutes
Sample Temperature	0-100℃
TOC Detection Resolution	0.1 μg/L
Zero Drift	±2%/D
Span Drift	±2%/D
Power Supply	220±22V AC, 50±1Hz
Power	60W
Ambient Temperature	0-60℃±5℃/D
Relative Humidity	≤90%
External Dimensions	300*200*200mm
Net Weight	4.6kg

TOC Analyzer

TOC-Q600SPL



Working Principle

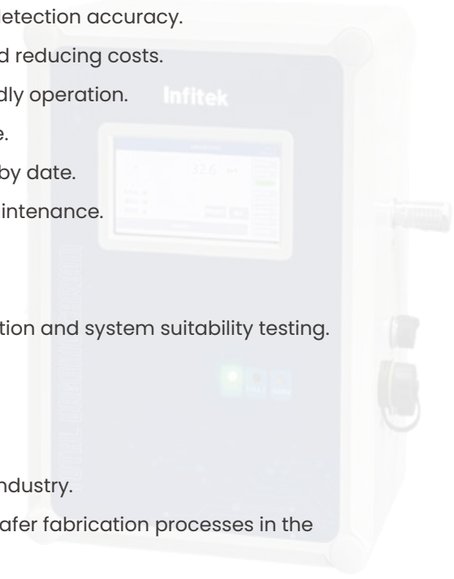
The Total Organic Carbon Analyzer oxidizes slowly flowing water samples using a UV lamp, determining the TOC value of the water sample by measuring the change in conductivity before and after oxidation. Under the action of a peristaltic pump, the water sample enters the Teflon tubing and sequentially passes through the first electrode, the quartz spiral tube, and the second electrode, before finally being discharged through the waste tube. During detection, the conductivity values from both sensors are simultaneously collected to obtain G1 and G2. Organic matter in the water sample generates CO_2 under the action of the dual UV lamps, causing the conductivity to rise. The corresponding total organic carbon is calculated via the differential value (G2 - G1).

Description

The Total Organic Carbon Analyzer is an analytical instrument used to determine total organic carbon concentration in water samples. It can analyze water samples with TOC concentrations ranging from 0.1μg/L to 1500.0μg/L, featuring high sensitivity, excellent accuracy, and reliable stability.

Features

- High detection accuracy and low detection limit.
- Touch screen design and user-friendly interface for simple and convenient operation.
- Conductivity temperature compensation technology improves detection accuracy.
- No carrier gas or reagents required, simplifying maintenance and reducing costs.
- Independent system suitability test interface for more user-friendly operation.
- The detection curve is visible in real time, making it more intuitive.
- Large data storage capacity for convenient queries, searchable by date.
- UV lamp lifetime countdown for easy lamp replacement and maintenance.
- Features an alarm output for exceeding the upper limit.
- Supports external 4-20mA communication.
- Optional automatic calibration kit for one-key automatic calibration and system suitability testing.



Application Scope

- Online TOC monitoring of water systems in the pharmaceutical industry.
- Online monitoring of ultrapure water preparation systems and wafer fabrication processes in the semiconductor industry.
- Online monitoring of deionized water preparation processes in power plants.

Specification

Model	TOC-Q600SPL
TOC Detection Range	0.1 μg/L-1500.0 μg/L
Conductivity Detection Range	0.055-6.000 μS/cm
Analysis Time	Minimum 1-minute analysis interval (can be set arbitrarily)
Accuracy Error	±5%
Repeatability Error	≤2%
Response Time	Within 6 minutes
Sample Temperature	0-100 ℃
TOC Detection Resolution	0.1 μg/L
Zero Drift	±2%/D
Span Drift	±2%/D
Power Supply	220±22V AC, 50±1Hz
Power	60W
Ambient Temperature	0-60 ℃ ±5 ℃/D
Relative Humidity	≤90%
External Dimensions	300*200*140mm
Net Weight	7.6kg

TOC Analyzer

TOC-Q700S

- Measurement Parameters: TC, TIC, TOC, NPOC
- TOC Detection Range: 0.001 mg/L-100.0 mg/L
- Sample Injection Volume: 50-6000 μL
- Carrier Gas: High-purity nitrogen (or CO_2-free air)

Description

The Total Organic Carbon Analyzer is an analytical instrument used to determine total organic carbon concentration in water samples. It can analyze water samples with TOC concentrations ranging from 0.001 mg/L to 100.0 mg/L, featuring high sensitivity, excellent accuracy, and reliable stability.

10.4-inch observation window for monitoring the instrument's operating status

Windows-based operating system with complete audit trail functionality.

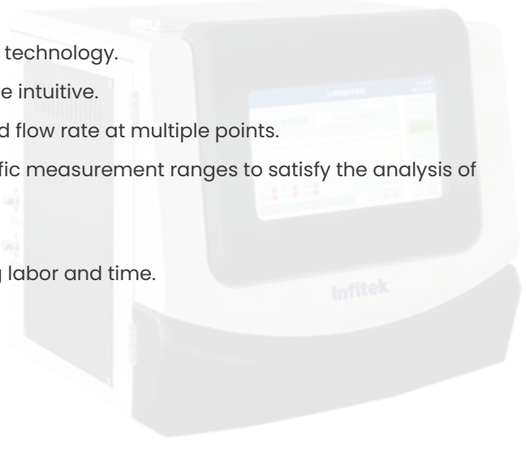
Simple and convenient consumable replacement

Optional autosamplers available to save labor:

24-position / 30-position / 81-position

Features

- The integration of a highly reflective gold-plated gas cell, a highly concentrated infrared light source, and a high-sensitivity infrared detector ensures the excellent performance of the NDIR detector, providing sufficient sensitivity and accuracy for ppb-level measurements.
- A precision electromagnetic metering pump ensures the accuracy and stability of the sample injection volume;
- Features dual-pass electronic condensing dehydration technology.
- The detection curve is visible in real time, making it more intuitive.
- Real-time self-monitoring of temperature, pressure, and flow rate at multiple points.
- Users can customize calibration curves based on specific measurement ranges to satisfy the analysis of various water samples.
- Optional online module for online monitoring.
- Optional autosampler for unattended operation, saving labor and time.



Specification

Model	TOC-Q700S
Analysis Method	UV-persulfate oxidation with NDIR detection principle
Measurement Parameters	TC, TIC, TOC, NPOC
TOC Detection Range	0.001 mg/L-100.0 mg/L
Sample Injection Volume	50-6000 μL
Carrier Gas	High-purity nitrogen (or CO_2-free air)
Sample Temperature	0-100℃
Oxidant	Sodium persulfate solution
Acid Reagent	Phosphoric acid solution
Analysis Time	3-8 min
TOC Detection Resolution	0.001 mg/L
Accuracy Error	±5%
Repeatability Error	≤3%
Zero Drift	±2%/D
Span Drift	±2%/D
Power Supply	220±22V AC, 50±1Hz
Power	150W
Ambient Temperature	0-40℃
Relative Humidity	≤85%
External Dimensions	420*365*380mm
Net Weight	21kg

TOC Analyzer

TOC-Q800

Description

The Total Organic Carbon Analyzer is an analytical instrument used to determine total organic carbon concentration in water samples. It can analyze water samples with TOC concentrations ranging from 0.050 ppm to 35000.0 ppm, featuring high sensitivity, excellent accuracy, and reliable stability.

10.4-inch display operation

Optional solid sampler simplifies the analysis of solid and particulate samples.

Optional autosamplers available to save labor:

24-position / 30-position / 81-position

Features

- High-resolution 10.4-inch touchscreen with a user-friendly interface for simple, convenient operation.
- Triple-pass electronic condensing dehydration technology ensures the dehydration efficiency of the entire system.
- The integration of a highly reflective gold-plated gas cell, a highly concentrated infrared light source, and a high-sensitivity infrared detector ensures the excellent performance of the NDIR detector, providing sufficient sensitivity and accuracy for ppb-level measurements.
- The detection curve is visible in real time, making it more intuitive.
- Real-time self-monitoring of temperature, pressure, and flow rate at multiple points.
- Multiple protection mechanisms for combustion furnace heating, featuring automatic heat shut-off upon overheating to enhance instrument safety.
- Built-in dot-matrix printer to minimize instrument footprint.
- 2-year data storage capacity with easy retrieval, supporting queries by specific time periods.
- Equipped with password protection function.

Technical Advantages

The maximum combustion furnace temperature reaches up to 1300 °C, which is significantly higher than the conventional 680 °C. This greatly increases oxidation efficiency to meet the analysis requirements of virtually all substances, enhancing measurement accuracy and stability.

Supports selection of different catalysts (such as CeO_2, Pt, and CuO) and adjustable temperature settings based on sample analysis requirements, providing comprehensive experimental conditions and analytical flexibility.

Automated liquid sample injection saves time and labor. A precision electromagnetic metering pump ensures accurate, stable, and continuous uniform sample introduction, eliminating measurement fluctuations caused by manual operational variations. Additionally, this non-manual injection method minimizes operator contact with liquid samples and reagents, reducing chemical exposure hazards and enhancing safety.

The inorganic carbon (IC) reaction cell features a heating device, which eliminates peak tailing and reduces sample analysis time.

Optional solid sampler and sample boats for the analysis of solid samples (e.g., soil, sludge), broadening the application scope.

Optional online module to enable real-time online monitoring.

Optional autosampler for unattended operation, saving labor and time.

Specification

Model	TOC-Q800
Analysis Method	High-temperature catalytic oxidation - NDIR detection principle
Measurement Parameters	TC, TIC, TOC, NPOC
TOC Detection Range	0.050-35000 mg/L
Sample Injection Volume	20-1000 μL
Carrier Gas	High-purity oxygen (99.999%)
Furnace Temperature	Max. 1300°C
Salt Tolerance	100 g/L
Acid Reagent	Phosphoric acid solution
Analysis Time	3-8 min
TOC Detection Resolution	0.001 mg/L
Accuracy Error	±5%
Repeatability Error	≤3%
Zero Drift	±2%/D
Span Drift	±2%/D
Power Supply	220±22V AC, 50±1Hz
Power	800W
Ambient Temperature	0-60℃±5℃/D
Relative Humidity	≤90%
External Dimensions	595*425*455 mm
Net Weight	44 kg

TOC Analyzer

TOC-Q800SE

Description

The Total Organic Carbon Analyzer is an analytical instrument used to determine total organic carbon concentration in water samples. It can analyze water samples with TOC concentrations ranging from 0.050 ppm to 35000.0 ppm, featuring high sensitivity, excellent accuracy, and reliable stability.

10.4-inch display operation

Side-opening design for easier consumables replacement.

Optional solid sampler simplifies the analysis of solid and particulate samples.

Optional autosamplers available to save labor:

24-position / 30-position / 81-position

Features

- High-resolution 10.4-inch touchscreen with a user-friendly interface for simple, convenient operation.
- Triple-pass electronic condensing dehydration technology ensures the dehydration efficiency of the entire system.
- The integration of a highly reflective gold-plated gas cell, a highly concentrated infrared light source, and a high-sensitivity infrared detector ensures the excellent performance of the NDIR detector, providing sufficient sensitivity and accuracy for ppb-level measurements.
- The detection curve is visible in real time, making it more intuitive.
- Real-time self-monitoring of temperature, pressure, and flow rate at multiple points.
- Multiple protection mechanisms for combustion furnace heating, featuring automatic heat shut-off upon overheating to enhance instrument safety.
- Built-in dot-matrix printer to minimize instrument footprint.
- 2-year data storage capacity with easy retrieval, supporting queries by specific time periods.
- Equipped with password protection function.

Technical Advantages

The maximum combustion furnace temperature reaches up to 1300 °C, which is significantly higher than the conventional 680 °C. This greatly increases oxidation efficiency to meet the analysis requirements of virtually all substances, enhancing measurement accuracy and stability.

Supports selection of different catalysts (such as CeO_2, Pt, and CuO) and adjustable temperature settings based on sample analysis requirements, providing comprehensive experimental conditions and analytical flexibility.

Automated liquid sample injection saves time and labor. A precision electromagnetic metering pump ensures accurate, stable, and continuous uniform sample introduction, eliminating measurement fluctuations caused by manual operational variations. Additionally, this non-manual injection method minimizes operator contact with liquid samples and reagents, reducing chemical exposure hazards and enhancing safety.

The inorganic carbon (IC) reaction cell features a heating device, which eliminates peak tailing and reduces sample analysis time.

Optional solid sampler and sample boats for the analysis of solid samples (e.g., soil, sludge), broadening the application scope.

Optional online module to enable real-time online monitoring.

Optional autosampler for unattended operation, saving labor and time.

Specification

Model	TOC-Q800SE
Analysis Method	High-temperature catalytic oxidation - NDIR detection principle
Measurement Parameters	TC, TIC, TOC, NPOC
TOC Detection Range	0.050-35000 mg/L
Sample Injection Volume	20-1000 μL
Carrier Gas	High-purity oxygen (99.999%)
Furnace Temperature	Max. 1300°C
Salt Tolerance	100 g/L
Acid Reagent	Phosphoric acid solution
Analysis Time	3-8 min
TOC Detection Resolution	0.001 mg/L
Accuracy Error	±5%
Repeatability Error	≤3%
Zero Drift	±2%/D
Span Drift	±2%/D
Power Supply	220±22V AC, 50±1Hz
Power	800W
Ambient Temperature	0-60℃±5℃/D
Relative Humidity	≤90%
External Dimensions	595*425*455 mm
Net Weight	44 kg

Autosampler

AS-Q24

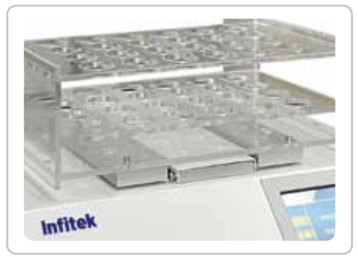
- Sampling Vial Positions: 24 positions
- Sampling Vial Volume: 40 mL
- Unique sampling needle design with high durability
- Real-time display of the sampling process for visualized operation

Features

- 3.5-inch touch screen with a user-friendly interface, offering simple and convenient operation.
- The 24-position sample vial design meets the requirements of routine daily analysis.
- It features both online and automatic modes, enabling synchronized analysis with various models of TOC analyzers.
- Real-time display of the sampling process for visualized operation.
- Unique sampling needle design with high durability and resistance to damage.
- Stable and reliable operation, requiring no specialized daily maintenance, with low maintenance costs.

Description

The autosampler is a device specially designed for use with TOC analyzers. It utilizes software to control the movement of the sample vial rack and the sampling robotic arm, ensuring precise positioning and sampling while enabling unattended operation. It offers convenient operation, accurate positioning, and labor savings.



Specification

Model	AS-Q24
Sampling Vial Positions	24 positions
Sampling Vial Volume	40 mL
Ambient Temperature	10 ~ 50°C
Relative Humidity	≤85%
Power Supply	220±22 V, 50±1 Hz
Power Consumption	100 W
Dimensions	340*355*420 mm
Weight	3 kg

Autosampler

AS-Q30

- Sampling Vial Positions: 30 positions
- Sampling Vial Volume: 60 mL
- Unique sampling needle design with high durability
- Real-time display of the sampling process for visualized operation

Features

- 4.3-inch touch screen with a user-friendly interface, offering simple and convenient operation.
- The 30-position sample vial design meets the requirements of routine daily analysis.
- It features both online and automatic modes, enabling synchronized analysis with various models of TOC analyzers.
- Real-time display of the sampling process for visualized operation.
- Unique sampling needle design with high durability and resistance to damage.
- Stable and reliable operation, requiring no specialized daily maintenance, with low maintenance costs.

Description

Designed for TOC analyzers, its precise positioning and highly automated design significantly reduce manual intervention during analysis, thereby improving work efficiency.

Specification

Model	AS-Q30
Sampling Vial Positions	30 positions
Sampling Vial Volume	60 mL
Ambient Temperature	10 ~ 50°C
Relative Humidity	≤85%
Power Supply	220±22 V, 50±1 Hz
Power Consumption	100 W
Dimensions	650*400*500 mm
Weight	20 kg

Autosampler

AS-Q81

Description

Designed for TOC analyzers, its precise positioning and highly automated design significantly reduce manual intervention during analysis, thereby improving work efficiency.

Specification

Model	AS-Q81
Sampling Vial Positions	81 positions
Sampling Vial Volume	40 mL
Ambient Temperature	10 ~ 50°C
Relative Humidity	≤85%
Power Supply	220±22 V, 50±1 Hz
Power Consumption	100 W
Dimensions	590*532*675 mm
Weight	47 kg

Solid Autosampler

SS-Q1

Applications

Solid, semi-solid, and liquid polymers;

Particulate samples;

Rocks, agricultural soils;

Wastewater sludge, slurry, and sediments from estuaries, lakes, and rivers;

- Maximum sample size: 100 mg
- Electronically cooled sample boat
- Multiple sample introduction speeds are available

Features

Maximum sample size: 100 mg.

Electronically cooled sample boat.

Multiple sample introduction speeds are available to meet the requirements of various samples.