

TOC 4500WT H

AUTOMATIC TOC ANALYZER FOR HIGH RANGE



Specification

Measuring Range	0 - 225 mg/L
Measuring Principle	Wet oxidation (NPOC method)
Oxidation Principle	Oxidant + UV + Heat
Detection Principle	NDIR Sensor
Repeatability	± 2% of F.S
Accuracy	± 2% of F.S
Display Resolution	0.001 mg/L
Analysis Cycle Time	Less than 15 min
Sampling Unit	Sample loop Line measuring
High Salt Sample	Dual scrubber & Liquid scrubber
Moisture Removal	Membrane dryer & Peltier dehumidifier
Cycle of Reagent Replacement	4 weeks
Permissible Sample Temperature	5 - 40℃
Operation System	Industrial PC, Windows OS Color LCD (10") Touch Screen
Data Storage	PC SSD , USB Memory stick available
Alarm List	No sample, No distilled water, No reagent, No carrier gas, UV-Lamp abnormal, MFC abnormal, Detector abnormal, System abnormal, Consumption replacement
Electrical Output Signal	RS-232C / 4 - 20 mA
Status List	Normal, Pause, Calibrating, Checking Communication error, Operating error
Power Supply	AC 110 - 220V, 50 - 60Hz
Power Consumption	100VA
Housing Material	Steel / Powder coating 550(W) * 430(D) * 1560(H) mm About 80kg
Ambient Temperature & Humidity	5 - 40℃ Less than 85% RH
Carrier Gas	High purity nitrogen gas or Air
Option	Carrier gas generator

Features

- * Precise sample measuring method by using sample Loop
- * Applied high-efficiency oxidation reactor
- * High-efficiency oxidation reactor considering UV transmission distance
- * Improved oxidation of high-salt sample (Chloride)
- * Variable measurement conditions and optimum oxidation conditions can be set
- IC removal time, carrier gas flow
- Injection volume of oxidant, operating time for UV lamp
- * Increased maintenance convenience
- Enhanced durability of scrubber for high salt samples
- Detecting the presence or absence of supply of samples, reagents, and distilled water
- Self-checking function for main components (NDIR, MFC, UV Lamp)
- Alarm function for consumable replacement cycle
- * Various service functions
- Application of TMS communication transmission standard
- Automatic shutdown function in case of device error or alarm
- Auto Strat & Auto Cleaning function when returning after a power outage
- Remote control of the operation such as start and stop using external contacts
- * Wide range of application
- Purification, sewage, wastewater, industrial process management, lake water, river water, etc.

Option (Carrier gas generator)

◆ TOC Gas generator

Power	220VAC, 50/60Hz
Inlet Flow	2.8L/min
Out Flow	1.6L/min
Purge Flow	1.2L/min
Operation Pressure	50~120PSIG
Operation Temperature	0.5~49℃
Maxium Inlet Pressure	120PSIG



◆ Air Compressor

Method	Oilless / Oil-free
Maximum working pressure	8 Bar
Production of Air	150 L/min
Storage of Air	24 L
Power Supply	220V, 60Hz
Dimension	450 x 450 x 700 mm
Weight	35 kg



Certifications and Awards



Awarded the achievement sharing contest (Korea Environment Corporation)



Awarded water technology contest (K-water)



Patent



Confirmation of the achievement sharing contest (Korea Environment Corporation)



Type Approval Certificate of Environmental Instrument



Selected Excellence Technology Top 20

Main Installation



- Deokso Water Source in K-water



- Wolpyeong Water Purification Plant



- DSP in Insan city



- Geumsan Water Source in K-water



- Daesan Sewage Treatment Plant in Gochang



- Ganggyeong Wastewater Treatment Plant in Nonsan