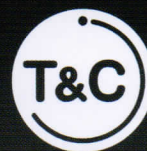


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T&C Technical



# *EVOLUTION-III*

*TOC ANALYZER*

## Specifications

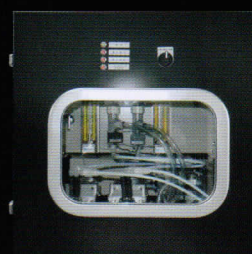
	Standard model	High-end model
Measurement item	Total Organic Carbon	
Measurement principle	Continuous Wet Oxidation + NDIR Detection Method	
Measurement range	Range A: 0—2000ppb Range B: 0—30.0ppm Range C: 0—50ppm Range SP:0—5000ppb Dilution measurement range: (need to combine with optional dilution device)	Range A: 0—2000ppb Range B: 0—30.0ppm Range C: 0—50ppm Range SP:0—5000ppb Dilution measurement range: (need to combine with optional dilution device) · Correspondence to limited sample water · Variable analysis time*1 · Correspondence to a high alkali sample*2
Measuring period	Continuous measurement	
Reaction time	Standard cylinder (Apprx. 5min.) / 6 reams cylinder (Apprx. 10min.) [With 90% response]	
Water pressure	0—0.5MPa (Analyzer adopted to grab sample automatically)	
Sample flow rate	Apprx. 100ml/min	
Water temperature	5—50°C	
Resolution	Range A, SP:5ppb Range B, C:0.1ppm	
Repeatability	Range A, SP:±2%FS Range B, C:±2%FS	
Reagent	Phosphoric acid Apprx. 5L/month	Phosphoric acid Apprx. 5L/month (Fluctuation)
Oxidant	Sodium persulfate Apprx. 5L/month	Sodium persulfate Apprx. 5L/month (Fluctuation)
Calibrating solution	Potassium Hydrogen phthalate (KHP)	
Carrier gas	Pure nitrogen gas or High purified air (needs option unit)	
Alarm output	High and low TOC alarm value 2 points relay contact, AC125V/0.5A or 30VDC/2A以下	
Signal output	4—20mA TOC measurement value Max. burden 600Ω	
Network	RS485 (Modbus) USB Interface (for Data Log)	
Installation environment	Ambient temperature:5—40°C Ambient humidity:5—80% (non condensing)	
Dimensions/Weight	1240 (H) × 500 (W) × 400 (D) mm (exclude umbo) Apprx. 60kg	
Power supply	AC100V ±10% 50/60Hz (Adjustable to foreign power supply) Apprx. 130VA (MAX. Apprx. 200VA)	

Remarks : ①Careful in handling instrument as phosphoric acid is used.  
 ②Drain should not have back pressure (. Atmospheric open)  
 ③Dilution measurement range has to combined with original designed dilution device.  
 ④measurement of a sea water sample will require confirmation separately.  
 ⑤※1& ※2 check of specification is required.

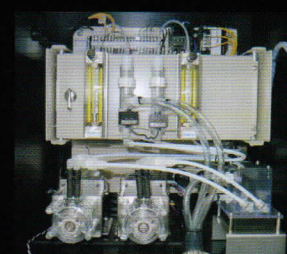


Operation panel

Option



Dilution device



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○The specification and externals of these products may change without notice for the improvement.  
 ○This content of brochure is based on January 2021.

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