

## *EasyPREP* - UNATTENDED LABORATORY AUTOMATION

The *EasyPREP* line of laboratory automation includes:

- 56** **Sample Handler** automated Liquid Sample Preparation for ICP-OES/MS labs
- 60** **TitreC** automated Electro Chemistry Analyzer
- 62** **BOD-200** automated Biological Oxygen Demand Analyzer
- 64** **COD-200** automated Chemical Oxygen Demand Analyzer
- 66** **AutoCHEM** automated Chemistry Analyzer
- 68** Supplies for Skalar SAN Systems

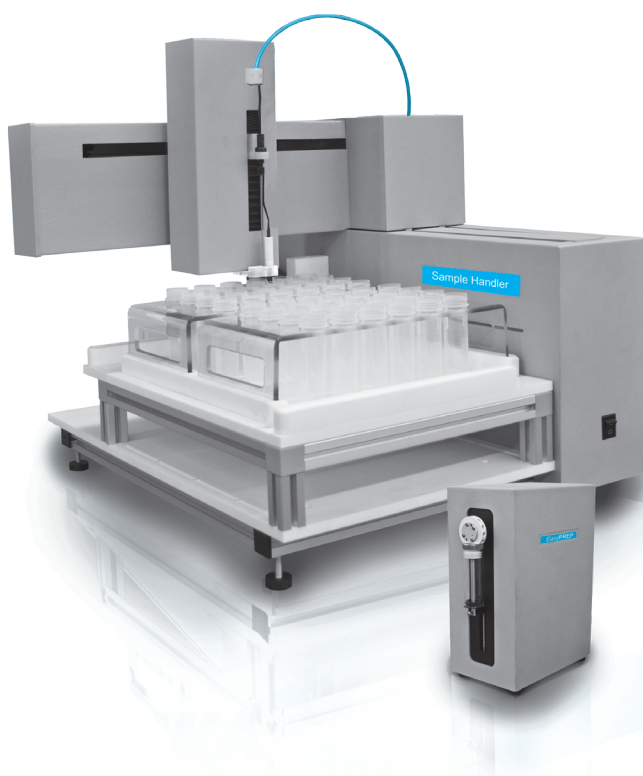
## Automated Liquid Sample Preparation for ICP-OES/MS

### SAMPLE HANDLER

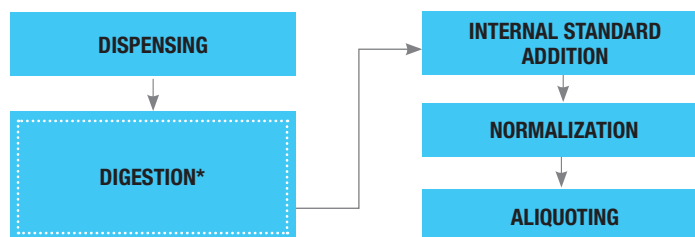
The Sample Handler is designed for ICP-OES/MS labs to automate Pre and Post digestion sample preparation. It also provides ICP-OES/MS labs with the capability to perform other tedious liquid handling operations. The instrument is built to work in corrosive environments and handle the strongest acids, such as concentrated hydrofluoric acid.

- Chemically resistant Acid/Base dispensing valves
- System calibration of dispensing accuracy according to ISO 8655-5 and compliant with ISO 17025.
- Acid resistant housing and components.
- Protective coating on electronic cards prevents vapor attack.

Improved operational efficiency allows laboratories to take on new projects and reallocate personnel towards higher value tasks.



#### FULL PRE/POST DIGESTION PROCESS UNATTENDED AUTOMATION



\*Digestion - Not performed by the Sample Handler. Use **DigiPREP** block digestion system (page 20) or **NovaWAVE** microwave digestion system (page 50)

#### UNATTENDED SAMPLE PREPARATION AUTOMATION FOR DIGESTION/ANALYSIS METHODS

- |                             |                                 |
|-----------------------------|---------------------------------|
| • Dispense up to 7 reagents | • Sample Normalization          |
| • Sample Dilution           | • Serial Dilutions              |
| • Sample Aliquoting         | • Calibration Curve Preparation |
| • Sample Transfer           | • Internal Standard Addition    |

#### Features

Compliment lab process workflow. Samples can be batched and transferred to or from the Sample Handler.

Samples never leave the sample tubes which never leave the racks throughout the digestion process.

Compatible with most digestion system racks.

Auto-rinsing wash station prevents cross contamination.

User friendly software, LIMS compatible.

#### Options

Ultrasonic level sensing executes normalization with Class A accuracy in a wide range of volumes based on customer requirements.

Bubble stirrer, with inert gas technology, provides thorough mixing of samples.

Track individual samples through barcoding.

Add a second dispensing pump for additional or non compatible reagents.

## Automated Liquid Sample Preparation for ICP-OES/MS

### SAMPLE HANDLER

#### FOLLOW STEPS 1-4 TO CHOOSE THE CORRECT CONFIGURATION



#### STEP 1 - ORDER INSTRUMENT

Description	Catalog No.
<b>EasyPREP</b> Sample Handler (110V/230V), with software	010-400-001

#### ITEMS INCLUDED IN THE BASIC CONFIGURATION

Description	Catalog No.
Full tray, for Sample Handler	010-400-096
Dispensing tip	010-400-025
<b>EasyPREP</b> Dispensing Tubing, (pk/7)	010-400-020

#### STEP 2 - SELECT SYRINGE PUMP

Description	Catalog No.
*Syringe Pump, 1 ml, 5 ml, 10 ml, 25 ml	010-400-018
Syringe Pump, 50 ml	010-400-019
Syringe Pump for HF, 5 ml	010-400-009

\* Standard

#### STEP 3 - SELECT CORRESPONDING SYRINGE

Description	Catalog No.
Syringe, 1 ml	010-400-102
Syringe, 5 ml	010-400-104
Syringe, for HF, 5 ml	010-400-106
Syringe, 10 ml	010-400-108
Syringe, 25 ml	010-400-110
Syringe, 50 ml	010-400-112

**ISO 17025  
and  
ISO 8655-5  
COMPLIANT**

#### Request Instrument Certification

**SPECIAL CERTIFICATION**  
SYSTEM CALIBRATION OF DISPENSING ACCURACY  
Catalog No. 010-400-050

#### STEP 4 - SELECT RACK

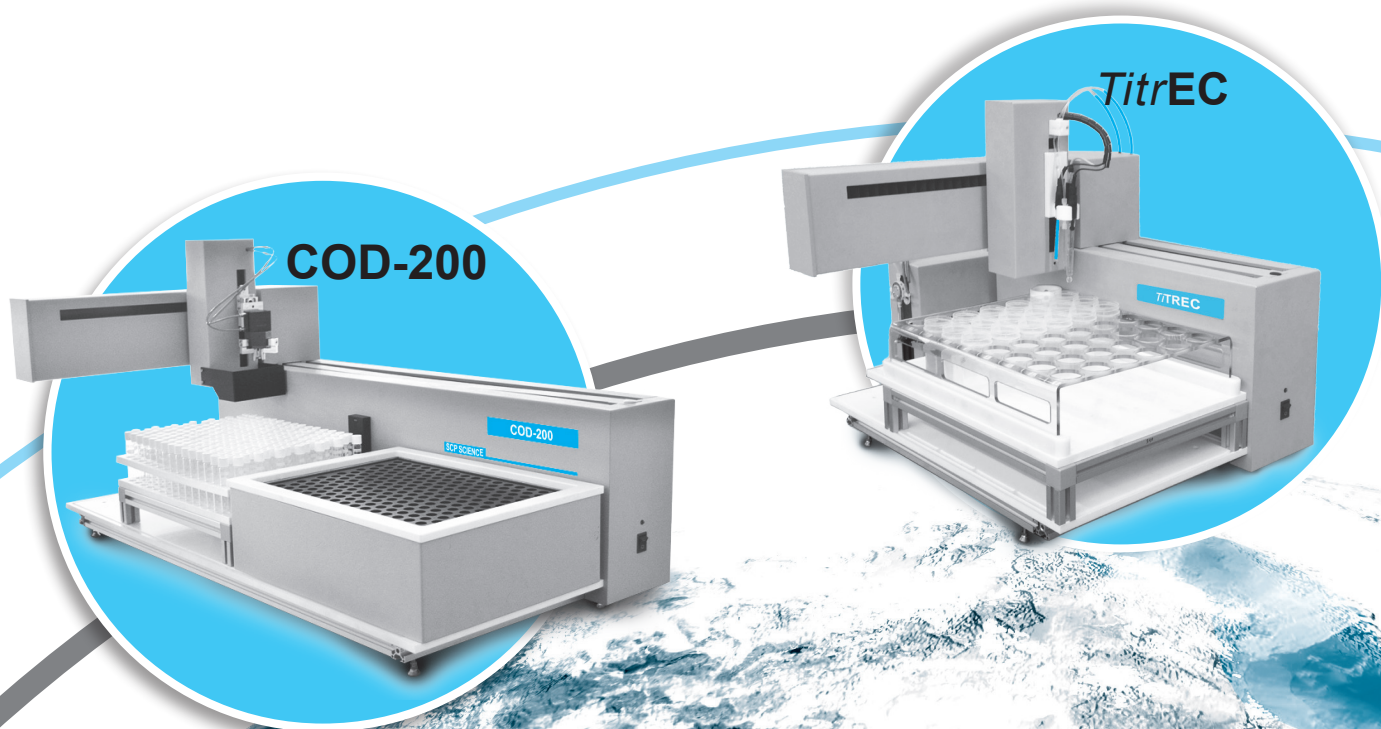
Description	Catalog No.
Rack, <b>DigiPREP</b> MS, 15 ml tubes, 54 positions	010-515-027
Rack, <b>DigiPREP</b> Jr, 15 ml tubes, 40 positions	010-515-023
Rack, for CETAC Autosampler, 50 ml tubes, 12 positions	010-510-050
Rack, for HotBlock®, 50 ml tubes, 18 positions	010-500-025
Rack, for CETAC Autosampler, 16 mm tubes, 40 positions	130-012-102
Rack, for CETAC Autosampler, 15 mm tubes, 60 positions	020-020-120
Rack, for <b>DigiPREP</b> Jr, 50 ml <b>DigiTUBES</b> , 24 positions	010-505-021
Rack, for <b>DigiPREP</b> , MS/LS 50 ml <b>DigiTUBES</b> , 24 positions	010-500-021
Rack, <b>NovaWAVE</b> Transport Rack, 50/75 ml vessels, 12 positions	010-400-044
Rack, custom	PLEASE CONTACT US

#### ACCESSORIES

Description	Catalog No.
Half tray, for use with <b>NovaWAVE</b> Transport Rack	010-400-098
Barcode reader, for rapid loading of sample identification	010-600-034
<b>AccuNORM</b> , required to normalize sample volumes	010-400-090
Bubble Stirrer, with inert gas feature	010-400-092
7 ml loop, for larger sample volumes, prevents sample from entering the syringe	010-400-048
Dispensing tip replacement, for Bubble Stirrer	010-400-093
Piercing Needle 1.2 x 0.4 L=150 with fitting	010-400-026
Pipetting Needles, Nickel-plated hub; 18 gauge; 6 in. length	010-400-022
Dispensing tip, PEEK (pk/1)	010-400-024
Fume Hood, protects samples from environmental contamination and vice versa when using Sample Handler, Inside dimensions: D 37.2 x W 31 x H 31.7, Outside dimensions: D 43 x W 32.7 x H 35.7	010-400-094
PC with Windows OS (Computer System Requirements can be found on page 63)	010-400-008



## EasyPREP - AUTOMATED ENVIRONMENTAL TESTING

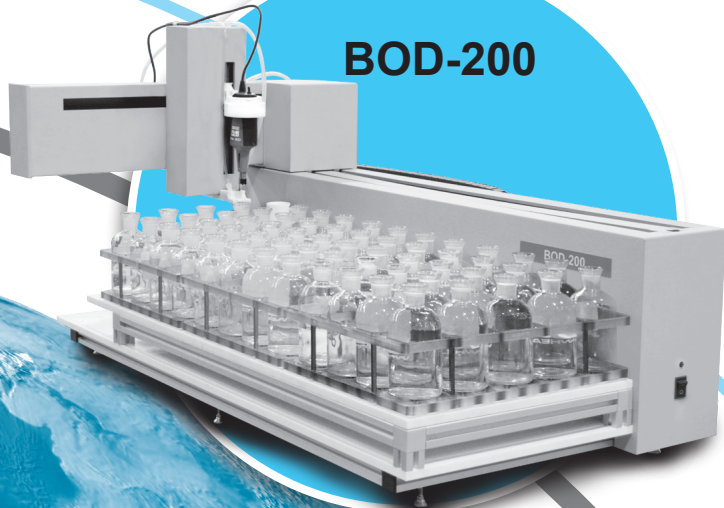




## EasyPREP - AUTOMATED ENVIRONMENTAL TESTING

*Environmental awareness and monitoring are crucial in ensuring a healthy and balanced ecosystem. Environmental Law plays a vital role in regulating the use of natural resources and in protecting the environment. Numerous regulations have been put forth at national and international levels in order to reinforce practices that would maintain a healthy environment.*

*The EasyPREP portfolio provides environmental testing laboratories with the technologies required to comply with environmental water legislation through automated, unattended, environmental testing, analytical platforms.*

**BOD-200****AutoCHEM**

## Automated Electro Chemistry Analyzer

### *TitreC*

### Designed for pH - Conductivity - Alkalinity measurements within the same vessel

The **TitreC** is a multiparameter robotic platform designed for automated electrochemical measurements of large numbers of samples operating under the stringent requirement of regulated environments.

Improved operational efficiency allows laboratories to take on new projects and reallocate personnel towards higher value tasks.

**TitreC** features corrosion resistant components and is designed for long lasting laboratory operation:

- Acid resistant housing and components
- Acid and base dispensing using a chemically resistant, ceramic switching valve in contact with reagents
- Electronic cards with special coating to prevent corrosion



#### Features

Full Process Automation provides unattended capability for:

- pH Measurement
- pH Adjustment
- pH end-point titration: alkalinity and acidity
- Electro conductivity measurement

Bidirectional titration of acid and base

Up to 7 point calibration for pH and EC

Auto washing station prevents sample cross-contamination

Barcoding capability provides automatic loading of sample and rack IDs

User friendly software, LIMS compatible

Accommodates 100 ml sample vessels, 47 positions

Simultaneous pH & EC measurement provides quick generation of results



## SPECIFICATIONS

pH Probe	Specifications	EC Probe	Specifications
Measuring range:	0 – 14 pH units	Measuring range:	100-10,000 uS/cm
Precision:	≤0.5%	Precision:	<2%
Accuracy:	1% of reading	Accuracy:	10% reading
Electrode slope:	58 mV/pH units	Working temperature:	<2%
Asymmetry:	±15 mV	Cell constant:	0.8 – 1.2 cm <sup>-1</sup>

## Automated Electro Chemistry Analyzer *TitreC*

### FOLLOW STEPS 1-3 TO CHOOSE THE CORRECT CONFIGURATION



#### STEP 1 - ORDER INSTRUMENT

Description	Catalog No.
<b>TitreC</b> (110V/230V), with software	010-410-001

#### ITEMS INCLUDED IN THE BASIC CONFIGURATION

Description	Catalog No.
Platform, 47 positions	010-450-030
Rack, for 100 ml Tubes, 47 positions	010-410-014
Temperature Probe	010-410-011
pH Probe	010-410-010
Conductivity Probe	010-410-012
Acid/Base Bidirectional Titrant Delivery Buret	010-410-018
Blade Stirrer	010-410-016
Replacement Dispensing Tubing	010-410-021

**ISO 17025  
and  
ISO 8655-5  
COMPLIANT**

#### Request Instrument Certification

**SPECIAL CERTIFICATION**  
SYSTEM CALIBRATION OF DISPENSING ACCURACY  
Catalog No. 010-400-050

**COMING  
SOON**

**NEW AUTOMATIC TITRATOR  
AND ELECTROCHEMICAL ANALYZER.**  
CONTACT OUR SALES DEPARTMENT FOR MORE  
INFORMATION [SALES@SCPSCIENCE.COM](mailto:SALES@SCPSCIENCE.COM)

#### STEP 2 - SELECT SYRINGE PUMP

Description	Catalog No.
*Syringe Pump, 1 ml, 5 ml, 10 ml, 25 ml	010-400-018
Syringe Pump, 50 ml	010-400-019
Syringe Pump for HF, 5 ml	010-400-009

#### STEP 3 - SELECT CORRESPONDING SYRINGE

Description	Catalog No.
Syringe, 1 ml	010-400-102
Syringe, 5 ml	010-400-104
Syringe, for HF, 5 ml	010-400-106
Syringe, 10 ml	010-400-108
Syringe, 25 ml	010-400-110
Syringe, 50 ml	010-400-112

#### ACCESSORIES

Description	Catalog No.
Barcode reader, for rapid loading of sample identification	010-600-034
Sample Handler Accessory, for <b>TitreC</b> (see description below)	010-410-005
<b>AccuNORM</b> , required to normalize sample volumes, used with Sample Handler Accessory	010-400-090
Bubble Stirrer, with inert gas feature, used with Sample Handler Accessory	010-400-092
Fume Hood, protects samples from environmental contamination and vice versa when using <b>TitreC</b> , Inside dimensions: D 37.2 x W 31 x H 31.7, Outside dimensions: D 43 x W 32.7 x H 35.7	010-400-094
PC with Windows OS (Computer System Requirements can be found on page 63)	010-400-008

## PERFORMING ICP ANALYSIS?

BENEFIT FROM THE SAMPLE HANDLER CAPABILITIES ON YOUR **TitreC** BY ADDING THE SAMPLE HANDLER ACCESSORY

#### Sample Preparation Accessory - Automated sample preparation for digestion and other laboratory methods

- Dispense up to 7 Reagents
- Sample Dilution
- Sample Aliquoting
- Sample Transfer
- Sample Normalization
- Serial Dilutions
- Calibration Curve Preparation
- Internal Standard Addition

See Page 56 for  
Specifications

Sample Handler  
Accessory,  
**TitreC**  
010-410-005

## Automated BOD, CBOD and DO Analysis

### BOD-200

The BOD-200 provides users with the capability to conduct BOD, CBOD and DO analysis. Analyze CBOD in conjunction with BOD to verify if non-compliant BOD results are due to nitrification and to obtain results more reflective of real effluent quality when under nitrifying conditions.

Biochemical oxygen demand, BOD, measures oxygen depletion which represents the breakdown of organic material by microorganisms.

Carbonaceous BOD, CBOD, measures oxygen depletion from the breakdown of organic material by microorganisms in which the contribution from nitrogenous bacteria has been suppressed.

The BOD-200 operates with an Optical Dissolved Oxygen Probe, providing accurate and reproducible results. The Optical Probe requires no membrane maintenance or electrolyte re-filling and is characterized by its stable response, minimal drift and fewer single point-calibrations.

Full Process Automation provides unattended:

- Automated Seed Addition
- Automated Inhibitor Addition
- Automated Sample Dilution
- Automated Sample Homogenization
- Automated Data Acquisition, Calculation and Storage

#### Features

BOD, CBOD and DO unattended automated analysis

Optimize laboratory management by opting for a 5 or 7-day incubation periods

Accommodates 300 ml reusable glass and/or disposable bottles and 60 ml glass re-usable bottles

Barcoding option provides sample, bottle and rack tracking throughout the process

Auto wash station prevents cross contamination

User-friendly software, LIMS compatible

Compliant with laboratory standards:

ISO 5815-1 | EN-1899-1 | EN-1899-2 | EN-5814 (2012) | EPA 405.1

DESIGNED FOR  
STATE, MUNICIPAL,  
AND COMMERCIAL  
ENVIRONMENTAL  
TESTING LABS

#### SPECIFICATIONS

##### Probe

Range	0-50 mg/L.
Accuracy	0 to 20: $\pm 0.1$ mg/L or $\pm 1\%$ reading, whichever greater 20-50 mg/L, $\pm 15\%$ reading
Resolution	0.01 mg/L
Response Time	T95=22 seconds with stirring





## Automated BOD, CBOD and DO Analysis BOD-200



### FOLLOW STEPS 1-2 TO CHOOSE THE CORRECT CONFIGURATION

#### STEP 1 - ORDER INSTRUMENT

Description	Catalog No.
BOD-200 (110V/230V), with software	010-420-001

#### ITEMS INCLUDED IN THE BASIC CONFIGURATION

Description	Catalog No.
BOD Optical Probe	010-420-030
Platform BOD-200, Universal for 300 and 60 ml bottles	010-420-092
BOD Dispensing Replacement Tubing	010-420-088

#### STEP 2 - SELECT 3 RACKS

Description	Bottle Volume	Bottle capacity/Rack	Catalog No.
BOD bottle Rack, glass	60 ml	42	010-420-044
BOD bottle Rack, disposable plastic	300 ml	20	010-420-040
BOD bottle Rack, glass	300 ml	20	010-420-042

#### ACCESSORIES

Description	Catalog No.
Barcode Reader, for rapid loading of sample identification	010-600-034
BOD Bottle Cap for 60 ml and 300 ml, plastic or glass bottles, pk. 25	010-420-018
BOD Probe Sensor Replacement Cap	010-420-090
BOD Dispensing Replacement Tubing	010-420-088
PC with Windows OS	010-400-008
Optical Probe Replacement Stirrer	010-420-034

#### STANDARDS & REAGENTS

Description	Size & Qty.	Catalog No.
BOD reagent kit containing reagents required to prepare BOD dilution water. See page 204	500ml/ea	250-110-150
Buffer pH 7.2 (phosphate), for BOD	500ml/ea	250-110-100
Calcium Chloride, CaCl <sub>2</sub> , 2.75% w/v	500ml/ea	250-110-200
Ferric Chloride, FeCl <sub>3</sub> , 0.025% w/v	500ml/ea	250-110-300
Magnesium Sulfate, MgSO <sub>4</sub> , 2.25%w/v	500ml/ea	250-110-400
BOD Glucose Powder for check solution	10g/ea	250-110-500
BOD Glutamic Acid for check solution	10g/ea	250-110-600

#### BOTTLES

Description	Qty (pk)	Catalog No.
BOD disposable plastic bottles, numbered, 300 ml	100	010-420-010
BOD glass bottles, numbered with Stopper, 300 ml	24	010-420-024
BOD glass bottles, barcoded with Stopper, 300 ml	24	010-420-066 to 010-420-084 010-420-106 to 010-420-120
BOD glass bottles, barcoded with Stopper, 60 ml	36	010-420-060 to 010-420-064

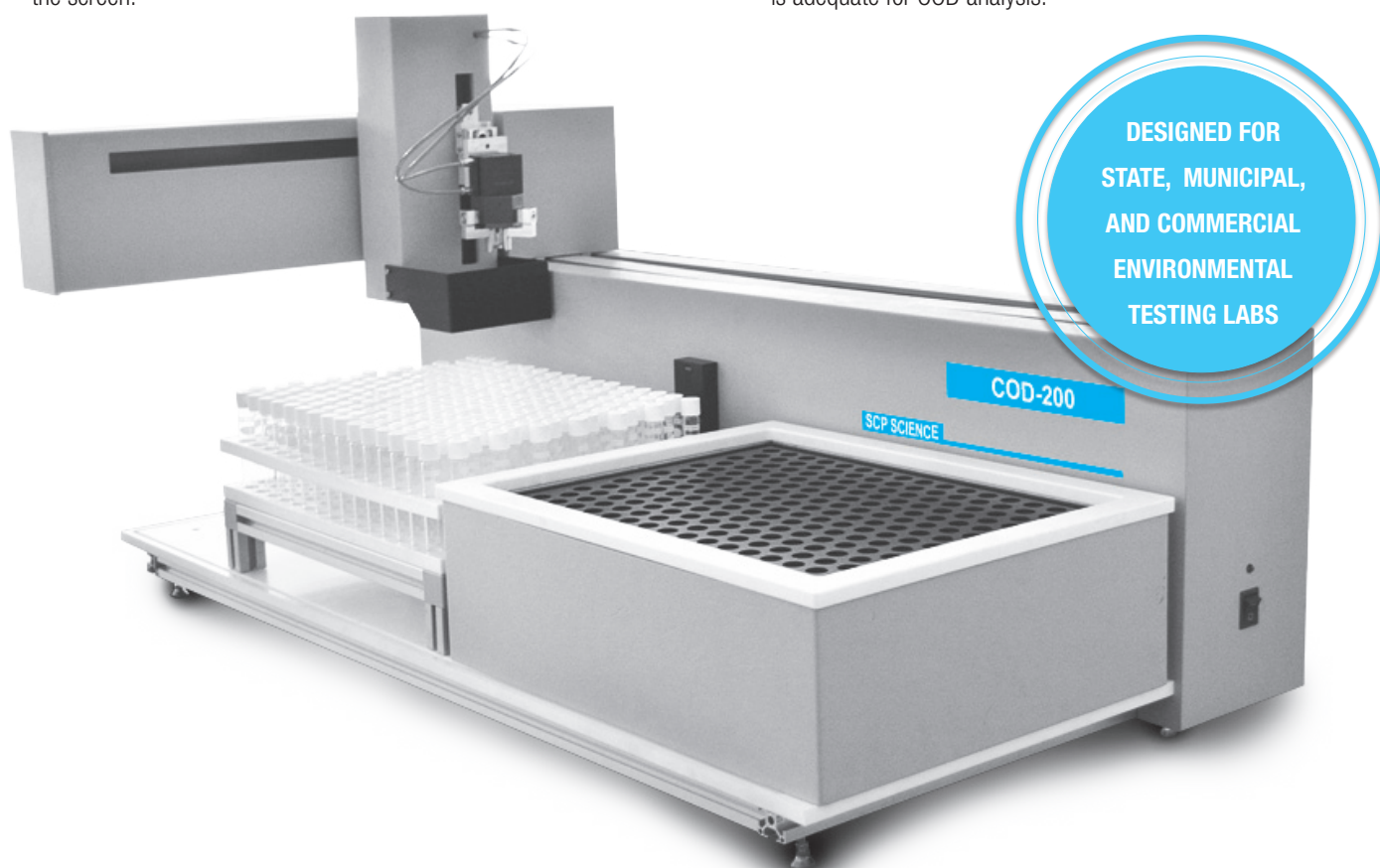
## Automated Chemical Oxygen Demand Analyzer COD-200

This, all-in-one, unattended COD analysis system automates the mixing, heating, cooling and analysis of COD samples.

COD tubes are placed in a digestion block for sample digestion, followed by shaking and cooling. They are then transferred to the spectrophotometer where sample are analyzed. The measurement activity and concentration calculations are displayed in real-time on the screen.

COD 200 offers the latest in solid state optics including LED sources and Si detectors for all wavelengths stated in world wide government regulations.

In COD analysis, the presence of turbidity can cause deviations of up to 30% from the real sample value. This capability allows the end user to confidently analyze samples knowing that the turbidity level is adequate for COD analysis.



### Features

Sample capacity of 217 COD tubes

Turbidity detection capability

Measure samples 0.5 mg/l to 1500 mg/l

Fully automated system from sample pick up to output of results

Includes: digestion, sample time tracking, shaking, analysis, data transposition and storage

### Features

Complies with ISO 15705, ISO 8467 and EPA 410.4

Digestion block with a heating temperature range from ambient to 180° C

User friendly software with graphical display of the samples being processed

LIMS compatible output file. Sample ID's are saved for full traceability

Computer system requirements can be found on page 63

## Automated Chemical Oxygen Demand Analyzer COD-200

THE COD-200 OFFERS ANALYSIS OF THE FOLLOWING METHODS:

Chemistry	LED Wavelength (nm)	LED Bandwidth (nm)	Method	Detection Limit	Detection Range	Accuracy (% of reading)	Precision (% of reading)
Potassium Permanganate	525	35	ISO 8467	0.5 ppm	0.5 - 10 mg/L O <sub>2</sub>	5	3.5
Potassium Dichromate	590	20	ISO 15705 EPA 410.4	3 ppm	3 - 100 mg/L O <sub>2</sub>	3.5	5
					100 - 500 mg/L O <sub>2</sub>	2.5	1
					500 - 1500 mg/L O <sub>2</sub>	0.5	0.3
Potassium Dichromate	420	16	ISO 15705	5 ppm	5 - 150 mg/L O <sub>2</sub>	3.5	3
Turbidity Detection	850	37	---	2.5 NTU	2.5 - 50 NTU	---	---

### FOLLOW STEPS 1-2 TO CHOOSE THE CORRECT CONFIGURATION



#### STEP 1 - ORDER INSTRUMENT

Description	Catalog No.
COD (110V/230V) with software	010-440-001

#### ITEMS INCLUDED IN THE BASIC CONFIGURATION

Description	Catalog No.
Spectrophotometer for COD-200	---
Digestion system, 217 positions for 12 ml tubes	---
Rack, Removable for 217 tubes COD-200	010-440-009
Air assisted gripper (compressor not included)	---

#### STEP 2 - SELECT 1 OR MORE CHEMISTRIES

Description	Catalog No.
Potassium Permanganate, 520 nm, ISO 8467	010-440-032
Potassium Dichromate, 590 nm, ISO 15705, EPA 410.4	010-440-030
Potassium Dichromate, 420 nm, ISO 15705	010-440-034
Turbidity Detection, 850 nm	010-440-036

#### ACCESSORIES

Description	Catalog No.
Air Compressor, 50 L/min. - 1.77 CFM & 8 bar - 116 psi	010-400-060
Barcode reader, for rapid loading of sample identification	010-600-034
PC with Windows OS (Computer System Requirements can be found on page 63)	010-400-008

#### STANDARDS & REAGENTS

Description	Concentration	Qty	Catalog No.
COD Tubes	0-150 ppm	box/25	250-130-006
COD Tubes	0-1500 ppm	box/25	250-130-016
COD Tubes	0-15,000 ppm	box/25	250-130-026
COD Tubes	0-150 ppm	CS/200	250-130-007
COD Tubes	0-1500 ppm	CS/200	250-130-017
COD Tubes	0-15,000 ppm	CS/200	250-130-027
COD CRM	low level	5 ml	140-715-101
COD CRM	high level	20 ml	140-715-102
COD Control Solution	100 ppm O <sub>2</sub>	125 ml	250-130-512
COD Control Solution	100 ppm O <sub>2</sub>	500 ml	250-130-550
COD Control Solution	100 ppm O <sub>2</sub>	1L	250-130-551
COD Control Solution	1000 ppm O <sub>2</sub>	125 ml	250-130-602
COD Control Solution	1000 ppm O <sub>2</sub>	500 ml	250-130-600
COD Control Solution	1000 ppm O <sub>2</sub>	1L	250-130-601
COD Control Solution	10,000 ppm O <sub>2</sub>	125 ml	250-130-652
COD Control Solution	10,000 ppm O <sub>2</sub>	500 ml	250-130-650
COD Control Solution	10,000 ppm O <sub>2</sub>	1L	250-130-651





## Automated Chemistry Analysis AutoCHEM



All-in-one COD and Phosphate unattended sample preparation and analysis with capping and uncapping capability.

Automate sample pipetting, mixing, heating, cooling and analysis of COD and Phosphate samples. Applicable to a variety of other pre-programmed chemistries.

System calibration of dispensing accuracy according to ISO 8655-5 and compliant with ISO 17025.

### AutoCHEM is designed to run the following testing methods:

- COD Potassium Dichromate Method
- Total Phosphate Method
- Possibility to analyze other chemistries

#### Features

Sample capacity of 67 tubes  
Fully automated system from sample pick up to output of results  
Complies with ISO 15705 and EPA 410.4 for COD analysis  
Nephelometric turbidity measurements according to EN ISO 7027  
Load and track individual samples identified through barcoding  
LIMS compatible output file. Sample ID's are saved for a full traceability

#### Features

Measurement without cuvette slot cover. The advanced optical design is insensitive to external light  
Documentation of results according to GLP  
Digestion block with a heating temperature range from ambient to 180 °C.  
User friendly software with graphical display of the samples being processed



## SPECIFICATIONS

### Spectrophotometer Technical Data

Wavelength range	340-1100 nm	Photometric accuracy:	0.005 E at 0.0 - 0.5 E; 1% at 0.5 - 2.0 E
Wavelength accuracy	± 1 nm	Photometric linearity:	< 0.5% at 2 E; = 1% at > 2 E
Wavelength resolution:	0.3 nm	Stray light:	< 0.5%
Photometric range:	± 3.0 E in wavelength range 400-900 nm	E - Illuminance (Watts of illumination/m²)	

## Automated Chemistry Analysis AutoCHEM



### AutoCHEM II

WITH EXPANDED SAMPLE CAPACITY AND ADDITIONAL CHEMISTRIES.

Contact our sales department for more information [sales@scpscience.com](mailto:sales@scpscience.com)

## ORDERING INFORMATION



### INSTRUMENT

Description	Catalog No.
AutoCHEM (110V/230V), with Software	010-450-001

### ITEMS INCLUDED IN THE BASIC CONFIGURATION

Description	Catalog No.
Spectrophotometer for AutoCHEM	010-450-005
Digestion system, 67 positions for 12 ml	010-450-007
Rack, 67 tubes	010-450-007
Syringe, 5 ml	010-400-104
Syringe Pump, 5 ml	010-400-018
Air assisted gripper, (compressor not included)	010-450-013

### ACCESSORIES

Description	Catalog No.
Air Compressor, 50 L/min. - 1.77 CFM & 8 bar - 116 psi	010-400-060
Barcode reader, for rapid loading of sample identification	010-600-034
PC with Windows OS (Computer System Requirements can be found on page 63)	010-400-008

**ISO 17025  
and  
ISO 8655-5  
COMPLIANT**

### Request Instrument Certification

#### SPECIAL CERTIFICATION

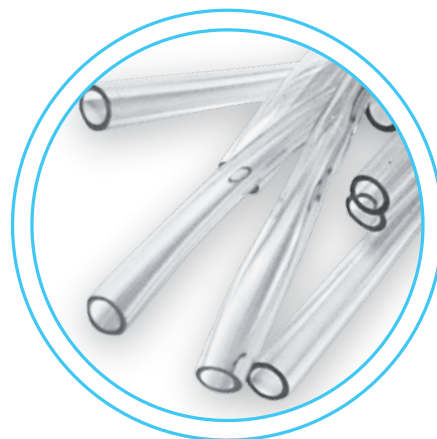
SYSTEM CALIBRATION OF DISPENSING ACCURACY  
Catalog No. 010-400-050

### STANDARDS & REAGENTS

Description	Concentration	Qty	Catalog No.
COD Tubes	0-150 ppm	Box/25	250-130-006
COD Tubes	0-1500 ppm	Box/25	250-130-016
COD Tubes	0-15,000 ppm	Box/25	250-130-026
COD Tubes	0-150 ppm	CS/200	250-130-007
COD Tubes	0-1500 ppm	CS/200	250-130-017
COD Tubes	0-15,000 ppm	CS/200	250-130-027
COD CRM	low level	5 ml	140-715-101
COD CRM	high level	20 ml	140-715-102
COD Control Solution	100 ppm O <sub>2</sub>	125 ml	250-130-512
COD Control Solution	100 ppm O <sub>2</sub>	500 ml	250-130-550
COD Control Solution	100 ppm O <sub>2</sub>	1L	250-130-551
COD Control Solution	1000 ppm O <sub>2</sub>	125 ml	250-130-602
COD Control Solution	1000 ppm O <sub>2</sub>	500 ml	250-130-600
COD Control Solution	1000 ppm O <sub>2</sub>	1L	250-130-601
COD Control Solution	10,000 ppm O <sub>2</sub>	125 ml	250-130-652
COD Control Solution	10,000 ppm O <sub>2</sub>	500 ml	250-130-650
COD Control Solution	10,000 ppm O <sub>2</sub>	1L	250-130-651
Total Phosphorus Reagent Tubes	0.04 – 1.5 mg/L P as PO <sub>4</sub> <sup>-3</sup>	Box/25	250-190-500
Total Phosphorus Reagent Tubes, barcoded	0.04 – 1.5 mg/L P as PO <sub>4</sub> <sup>-3</sup>	CS/200	250-190-501
Phosphorus Standard (polyphosphate)	1 ppm	125 ml	250-190-530

## SUPPLIES FOR SKALAR SAN SYSTEMS

**SCP SCIENCE** manufactures supplies for segmented flow chemistry analyzers. Glass coils are made in our glass shop. **ExactFLOW** tubing is flared at both ends to simplify the insertion into other connecting components. Don't need the flares? Simply cut back the flare a few millimeters to the desired internal diameter. **ExactFLOW** tubing is a 3 stop design which can be used two times prior to replacing.



### TUBING

Color Code			Description	Flowrate (ml/min)	ID (mm)	Skalar No.	Catalog No.
ORANGE	RED	ORANGE	Tubing, Calibration Pump (pk/12)	0.03	---	SA-3021	080-070-630
ORANGE	BLUE	ORANGE	Tubing, Calibration Pump (pk/12)	0.05	---	SA-3022	080-070-631
ORANGE	GREEN	ORANGE	Tubing, Calibration Pump (pk/12)	0.10	---	SA-3024	080-070-632
ORANGE	YELLOW	ORANGE	Tubing, Calibration Pump (pk/12)	0.16	---	SA-3025	080-070-633
ORANGE	WHITE	ORANGE	Tubing, Calibration Pump (pk/12)	0.23	---	SA-3026	080-070-634
BLACK	BLACK	BLACK	Tubing, Calibration Pump (pk/12)	0.32	---	SA-3027	080-070-635
ORANGE	ORANGE	ORANGE	Tubing, Calibration Pump (pk/12)	0.42	---	SA-3028	080-070-636
WHITE	WHITE	WHITE	Tubing, Calibration Pump (pk/12)	0.60	---	SA-3029	080-070-637
RED	RED	RED	Tubing, Calibration Pump (pk/12)	0.80	---	SA-3030	080-070-638
GRAY	GRAY	GRAY	Tubing, Calibration Pump (pk/12)	1.00	---	SA-3031	080-070-639
YELLOW	YELLOW	YELLOW	Tubing, Calibration Pump (pk/12)	1.20	---	SA-3032	080-070-640
YELLOW	BLUE	YELLOW	Tubing, Calibration Pump (pk/12)	1.40	---	SA-3033	080-070-641
BLUE	BLUE	BLUE	Tubing, Calibration Pump (pk/12)	1.60	---	SA-3034	080-070-642
GREEN	GREEN	GREEN	Tubing, Calibration Pump (pk/12)	2.00	---	SA-3035	080-070-643
PURPLE	PURPLE	PURPLE	Tubing, Calibration Pump (pk/12)	2.50	---	SA-3036	080-070-644
PURPLE	BLACK	PURPLE	Tubing, Calibration Pump (pk/12)	2.90	---	SA-3037	080-070-645
PURPLE	ORANGE	PURPLE	Tubing, Calibration Pump (pk/12)	3.40	---	SA-3038	080-070-646
PURPLE	WHITE	PURPLE	Tubing, Calibration Pump (pk/12)	3.90	---	SA-3039	080-070-647
ORANGE	BLACK		Tubing, Pump, Sample Rinse (pk/8)	---	---	SA-1060	080-070-601
			Tubing, Polyethylene (15 meters)	---	0.7	SA-5140	080-070-651
			Tubing, Polyethylene (15 meters)	---	1.0	SA-5141	080-070-652
			Tubing, Polyethylene (15 meters)	---	1.5	SA-5142	080-070-653
			Tubing, Silicon (3 meters)	---	0.5	SA-3150	080-070-770
			Tubing, Silicon (15 meters)	---	1.0	SA-5150	080-070-771



## SUPPLIES FOR SKALAR SAN SYSTEMS



## SAMPLE CUPS

Description	Skalar No.	Catalog No.
Sample Cup, 1.5 ml, Conical Bottom (pk/1000)	SA-1021	080-070-102
Sample Cup, 3.5 ml, Conical Bottom (pk/1000)	SA-1022	080-070-103

## REACTION COILS

Description	Skalar No.	Catalog No.
Coil, 50 turns	SA-5320	080-070-890
Coil, 40 turns	SA-5321	080-070-891
Coil, 30 turns	SA-5322	080-070-892
Coil, 20 turns	SA-5323	080-070-893
Coil, 10 turns	SA-5324	080-070-894
Coil, 5 turns	SA-5325	080-070-895
Coil, Quartz Glass, for UV Digestion	SA-5365	080-070-896

## DIALYZER MEMBRANES

Description	Skalar No.	Catalog No.
Pre-mounted membranes, small (pk/12)	SA-5282	080-070-919
Pre-mounted membranes, large (pk/12)	SA-5283	080-070-530

## CHEMICALS AND REAGENTS

Description	Skalar No.	Catalog No.
Brij 35, %30 Solution (250 ml)	SC-13900	080-070-931
Detergent, Triton X-100, 10% Solution (500 ml)	SC-13907	250-150-750
Activated Cadmium (10 g)	SC-13913	080-070-941

## SLEEVES AND CONNECTION SUPPLIES

Description	ID (mm)	Skalar No.	Catalog No.
Sleeve, PVC (pk/50)	3.2	SA-5400	080-070-910
Sleeve, PVC (pk/50)	2.4	SA-5401	080-070-911
Sleeve, PVC (pk/50)	1.6	SA-5402	080-070-912
Sleeve, Silicon, for 5421 (pk/50)	2.4	SA-5406	080-070-913

