

# CSQ<sup>®</sup> | Analytics

## | Commitment | Satisfaction | Quality |

*CSQ Analytics is **C**ommitted in achieving the greatest customer **S**atisfaction through our **Q**uality products and services which meeting and exceeding our customer requirements.*





## About Us

CSQ Analytics Sdn. Bhd., a member of CSQ Group, is formed by a dedicated team of technical & experience expertise that offers a complete range of analysis/testing kits, apparatus, equipments and consumables for Environmental Analysis, Water & Wastewater Analysis, Microbiology Analysis, Filtration, Chromatography, Liquid Handling, general laboratory equipments, glassware & etc.

We are providing related consultation & training services for Laboratory & Testing Set-up, Management Skill Certification, Laboratory Accreditation, Business & People Management and Development Soft Skill Training Programme & etc.

**We have expanded our facilities to support customer needs, in a competent environment.**

### • TRAINING ROOM •



### • LABORATORY •



### • WORKSHOP •



Based on the principles of innovative approach & entrepreneurial vision, ISOLAB has been dedicated to provide latest products & solutions to its customers for daily work in universities, institutions, laboratories, research & applications in various industries. The success achieved in laboratory consumables is a clear evidence of that customer trust.



## Volumetric Measurement & Liquid Handling



## Lab Consumables & Labware



## Distillation, Filtration, Separation & Sample Preparation



## Life Sciences, Microscopy & Microbiology



MACHERY-NAGEL (MN) is a globally operating company with stable growth. MN comprehensive line of laboratory supplies includes products for Filtration, Rapid Tests, Water Analysis and Chromatography. MN is proud to carry more than 20,000 products designed and manufactured to fill your individual needs.



## WATER ANALYSIS

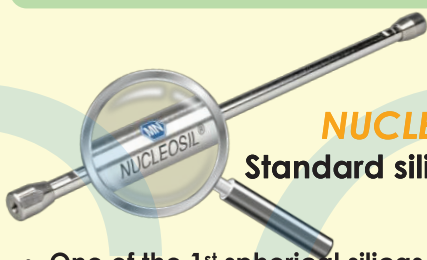
### Photometric Water Analysis | Colorimetric & Titrimetric Test Kits



## NANOCOLOR® VIS II

### Smart photometry

- Revolutionary user experience by 10 inch HD touch screen display
- Integrated turbidity measurement (NTU-Check)
- Internal quality control functions
- CIE-conform color measurements & analyses
- Integrated inspection equipment monitoring tools



## NUCLEOSIL®

### Standard silica for HPLC

- One of the 1<sup>st</sup> spherical silicas used in HPLC
- Developed in the early 70s, it became world-renowned HPLC packing
- Still found in many analytical & preparative applications, it is an absolutely reliable choice in HPLC
- Largest variety of modified HPLC silicas available

## CHROMATOGRAPHY



SPE & Flash | HPLC | Vials & Caps |  
TLC | GC | Syringe Filters

## FILTRATION

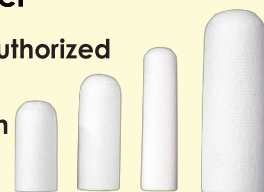
### Filter Circles | Folded Filters | Technical Cuts | Bulk | Extraction Thimbles | Membranes



## Extraction Thimbles

### Pure filter power

- Often used in Soxhlet extractors or authorized extractors. These are typically employed, where multiple extraction cycles are required to dissolve the desired compound
- Extraction units equipped with MN extraction thimbles minimize the hands-on time and ensure a complete extraction



## pH-Fix

### Unmatched pH test strips



- pH-determination quick, easy, safe
- Redesigned packages for easy handling
- CE-mark for medical applications

## RAPID TESTS



Test papers | Test strips | pH-Fix | QUANTOFIX®  
| AQUADUR® | PEHANON® | DiaQuant®



The family owned company Boeckel + Co (GmbH + Co) KG was founded in 1929 & now exists in the 3<sup>rd</sup> generation. To Boeco's customers in all 5 continents, Boeco are pleased to introduce the extended & updated complete line of laboratory equipment & consumables. Boeco offer high quality at competitive prices by a convenient & cost-effective one-stop supply.



## BOECO Balances

Our Standard Analytical balances with automatic internal calibration  
The Plus Version with: display with enlarged characters, keypad with quick access buttons, communication interfaces 2 x USB (1 x to work with printers with PCL protocol) (and optional WIFI)  
• Functions: autotest, dosing, percent weighing, totalizing, parts counting, peak hold, Newton unit measurement, statistics, checkweighing, under hook weighing, GLP procedures, animal weighing, pipettes calibration, density determination.



### Specifications

Max. capacity  
Minimal load  
Readability  
Repeatability  
Linearity  
Pan size  
Stabilization time  
Calibration Internal  
Netweight/Grossweight

### BAS 31 plus

220 g  
0.01 g  
0.0001 g  
0.0001 g  
± 0.0002 g  
Ø 100 mm  
3.5 sec  
Internal (automatic)  
5.6 kgs / 9.5kgs

### BAS 32 plus

110 g  
0.01 g  
0.0001 g  
0.0001 g  
± 0.0002 g  
Ø 100 mm  
3.5 sec  
Internal (automatic)  
5.6 kgs / 9.5kgs

## BOECO Portable PH/ORP/TEMP Meter Model PT-380



- Simultaneous displays pH or mV and temperature.
- Convenient calibration with automatic buffer recognition of European and US buffer sets. Calibration data is stored in memory and is ready for use on power up.
- Automatic or manual temperature compensation
- Automatic lock mode and end point sensing are available to lock in stable readings.
- 50 data set reviewable memory.
- Automatic shut off function (30 minutes of non-use)
- Battery life 1000 hours
- Low battery indicator
- IP65 waterproof case

The PT-380 will be delivered incl. the following standard accessories: 1 x ATC probe 6000AST, each 1 x 100 ml BOECO Buffer solution pH 4.01, pH 7.00, 1 x 9 V battery, 1 x operating manual, 1 x carrying case

## BOECO Water Bath PWB-8

Easy operation and small foot print are designed for chemical, pharmaceutical, medical and biological routine laboratory use and as well as for research purpose.

- Overheat Protection: The power will automatically be turned of when the internal temperature is over 110°C

### Specification

Cap. Range:  
Temp. Setting:  
Uniformity:  
Fluctuation of  
Temp.:  
Heating Time:

### PWB-8

Room Temperature +5°C...+99.9°C  
0.1°C  
± 0.2°C (37°C)  
± 0.5°C (RT +5-80°C)  
± 0.8°C (80-99.9°C)  
≤ 100 min (from 30°C to 90°C at RT 25°C)



## BOECO Vortex Mixer V1 Plus

Vortex mixer V1 plus with variable speed control. Continuous operation as well as with automatic starter, triggered by pressing the attachment. Incl. standard attachment for test tubes up to 20 mm ø.



### Specification:

Kind of motion:  
Speed range:  
Time of acceleration:  
Tube's capacity:  
Speed display:  
Switch:

orbital, 4 mm  
750 - 3000 rpm.  
3 sec.  
1,5-50ml  
scale (min/max)  
touch / continuous mode

## Pressureless Deionizer DS 450



Pressureless Ion exchanger in disposable cartridges of synthetic material. Excellently suited for medical practices and small laboratories requiring up to 10 litres a day. Supplied with conductivity meter, wall mount and set of hoses.

### Specification:

Flow rate: 50 l/h  
Capacity at 100 GSG: 425 l  
Quality: 0.1-20 µS/cm  
Temperature max: 30°C  
Material: Polyethylene  
Size: 100 x 600 mm (incl. cond. meter)  
Weight: 3 kg

## BOECO Vacuum Pumps R-300, R-400



Piston-powered, oil-free vacuum pumps, adaptable to many laboratory.

- quiet & low vibration
- compact & light weight

### Specification

	R-300	R-400
Max. vacuum:	650 mm Hg = 85.5Pa = 110Torr	
Max flow rate:	17 l/min 20 l/min	34 l/min 37 l/min
Horse power:	1/8 HP	1/6 HP
Pole:		4 P
Net weight:	4.1 kg	6.2 kg
Port thread:		5/16 inch
Noise level:		50db



## BOECO Moisture Analyzer BMA H50, BMA I50

### Specifications

Heating Module  
Range of Drying temp  
Max. capacity  
Readability  
Max mass sampling  
Accuracy of moisture reading  
Repeatability  
Max. height of tested sample  
Pan size  
Drying modes  
Auto switch off options  
Netweight/Grossweight

### BMA H50

Halogen emitter  
250°  
50 g  
0.001  
50 g  
0.001 %  
0.05 % (sample < 2 g)  
0.01 % (sample < 10 g)  
h = 20 mm  
Ø 90 mm, h = 8 mm  
4 drying modes (standard, quick, step, mild)  
4 options (manual, automatic, time defined, user-defined)  
4.9 kgs / 6.4 kgs

### BMA I50

Infrared emitter  
160°C  
50 g  
0.001  
50 g  
0.001 %  
0.05 % (sample < 2 g)  
0.01 % (sample < 10 g)  
h = 20 mm  
Ø 90 mm, h = 8 mm  
4 drying modes (standard, quick, step, mild)  
4 options (manual, automatic, time defined, user-defined)  
4.9 kgs / 6.4 kgs

## BOECO Programmable Orbital Shaker PSU-15i

The PSU-15i belongs to a generation of multifunctional mixing devices: The design, direct drive system, brushless motor (service life up to 35000 hours) and automatic loading balancing system make the PSU-15i even more reliable especially for the long non-stop operation. The PSU-15i has a microprocessor control which allows real-time program correction, indication of set and actual speed, angle and time, operation timer in the display.



### Specification:

Kind of motion:	orbital
Orbit size:	20 mm
Speed regulation:	20 - 250 rpm
Speed display:	digital (LCD)
Max. load:	8 kg
Continuous operation time:	max 168 hrs.
Power (external):	DC 12 V. 3.2 A
Overall size (w/o platform):	410 x 410 x 130 mm
Weight:	11.7 kg

## Magnetic Stirrer with Hotplate MSH 420



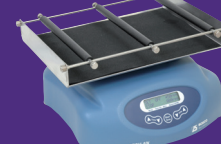
Bottle-top Burette

## Rotator Bio RS-24



Digital Hand Refractometer

## Universal Orbital Shaker PSU-10i



Water Purification



Covering three product groups: Pipetting, Consumables and Benchtop Instruments, CAPP offers a total solution for user lab needs. CAPP motto is to continue to deliver a full line of liquid measurement instruments of the same robust design and highest standard of precision that has made CAPP pipettes the instrument of choice in many critical laboratories worldwide.

# CAPP

## CAPP Bravo

CAPP Bravo is a single channel pipettes constructed of the highest quality autoclavable materials and features feather light plunger and ejection forces. The features below are packaged in a modern, streamlined, world-renowned Danish design:



### Safety:

- Fully Autoclavable
- Positive indicator lock

### Ergonomics:

- Ergonomically constructed hook for comfortable handling
- Smooth tip mounting and ejection

### Controls:

- Oversized indicator
- Reduced force feather touch plunger and ejector

### Unique Features:

- Metal shaft with double O-rings for ultra micro sizes
- Ultra lightweight construction

## CAPP Forte

CAPP Forte Bottle-Top Dispenser is the ideal choice for dispensing bases, acids and solvents. It can be used for dispensing media that are difficult to handle, such as crystallizing, viscous, foaming or vaporizing liquids. Autoclavable at 121°C / 250°F, CAPP Forte can also be used for sterile applications.



CAPP Forte Bottle-Top Dispenser offers a range of features which increase user safety and comfort:

- Locking the 3-way-valve disables the dispensing function, preventing unintentional reagent flow.
- Both right and left-handed users can quickly and accurately set up the desired volume using the slide-and-lock volume setting button.
- The discharge tube can be rotated, making the bottle label visible at any time.
- The telescope intake tube is easily adjustable, fitting reagent bottles without cutting.
- Three PP-adapters for the most common bottle sizes are supplied with the instrument.

## CAPP ecopipette

The ecopipette is packed using recyclable, biodegradable materials and constructed from some of the most renewable durable resources available, to ensure an extended lifetime.



- Lockable volume controller requiring 50% fewer turns
- Display is fully visible during hand operations
- Reduced force requirement for aspiration and blow-out
- The only pipette with fixed and variable exchangeable counter mechanism
- Large pad for ease of tip ejection
- Fully autoclavable pipette body (no disassembly required)
- Double O-rings for optimal tip seal
- Compatible with all major pipette tip brands
- Robust design includes metal tip base
- Lowest incidence of breakage resulting from accidental dropping or tips mounting

## CAPP Maestro

CAPP Maestro is the electronic pipette that combines all benefits that the modern researcher needs.



- fully coloured OLED display
- Lightweight construction and elegant ergonomic design with a wide hook allows user to rest the pipette at the palm of the hand with no need to actually "grab it".
- Optimize serial work with advanced functions such as multi dispensing, dilution and mixing
- easily navigating through the user-friendly graphic intuitive interface that is self-explanatory and can be operated very easily
- easily store user favorite protocols and to switch from one to the other in a matter of 2 clicks
- uses lithium batteries which are ideal for long-lasting performance



**CAPP Aero 384 Multichannel Pipette**



**CAPP Rondo Mini Incubator**



**CAPP Rondo High Speed Refrigerated Centrifuge**



**CAPP Tempo Electronic Pipettes**

SNOL department has been producing heat treatment equipment for laboratory & industrial applications since 1960. They pay particular attention to the product development by using advanced technologies & scientific progresses in order to meet individual user needs. Highly qualified personnel & premium material result in high quality reliability, & durability of the manufactured products.

# SNOL



## SNOL - FURNACE

Muffles Furnaces with Fiber-Insulated Chambers

- High accuracy laboratory electric furnaces
- Designed for hardening, loosing, normalizing & other thermal processing up to a temperature of 1100°C or 1300°C
- Excellent for scientific laboratories, educational institutions, medicine and industry

## SNOL - OVEN



Chamber Ovens up to 300°C

- Laboratory ovens designed for thermal processing materials up to temperature of 300°C
- Used for processes such as drying, heating, thermal testing & aging in an air environment.
- Forced air circulation allows a homogenous temperature distribution to be achieved during all processes, which ensures optimal results.



Aqualabo was created in 2007, to operate the acquisition of Orchidis Laboratoire. Ponsel integrated Aqualabo with the objective to build a strong French manufacturer for water instrumentation. Perax, Aqualyse & Secomam joined the group, bringing long-time expertise in their respective speciality. With its 5 companies, Aqualabo reached its objective, able to offer to the customer a large range of products, with equipments mostly manufactured in France.



## PONSEL ODEON

Handheld numerical devices dedicated to water quality control on the field or in the laboratory.

- Optical Sensors (Oxygen, Turbidity/TSS) and electrochemical (pH, ORP, temperature, conductivity)

### Specifications

Memory	8MB (up to more than 100,00 records)
Power supply	4x1.5V AA • Options: • Rechargeable Battery • Power. External 12V
Batter life	145-190 hours depending on the configuration
Communication	USB
Housing	PC/ABS
Dimension & Weight	196.5x121x46 mm, 400g
Protection	IP 67
Operating temperature humidity	-25 to 50°C, 0-70%
Storage temperature humidity	-25 to 65°C, 0-80%
Display	LCD 4 « 240x320 pixel display with adjustable backlighting
Connectors	• 1 connector: ODEON CLASSIC & ODEON OPEN ONE • 2 connectors: ODEON OPEN X



## PONSEL ACTEON 5000

Multiparameters digital transmitter in the field

- ACTEON 5000 allows connection from 2 digital sensors of the range PONSEL MESURE for monitoring parameters pH, ORP, temperature, dissolved oxygen (optically), conductivity, salinity, turbidity (NTU, mg/L), UV254, TOC, COD, BOD, Suspended Solid (g/L), Sludge Blanket detection (%) ...

### Technical data

Digital sensor	2 inputs digital sensor RS485
2 analog input	In mode 0/4-20 mA or 0-10 V
2 relay input	Function of transfer on exit (release) TOR
	Information of external cleaning system : swing in maintenance mode
2 analog outputs	Choice of 2 parameters programmable according to the connected sensor
	Programming PID
2 digital outputs/relay	NO/NF customizable
	Instruction point: setting of the measuring range
	(Hysteresis / activation way) and time of activation
	Command for external cleaning system
	Output alarm for defect material sensor



## PONSEL PHEHT/pH, ORP & Temperature

DIGITAL technology for optimized measures

- The PHEH sensor has been designed to perform under hard conditions from pure mountains water with conductivity as low as 20  $\mu\text{S}/\text{cm}$ , lakes & rivers (100-2000  $\mu\text{S}/\text{cm}$ ), seawater with conductivities of 50 mS/cm & to wastewater with conductivity higher than 200 mS/cm. Range:
- pH: 0 to 14 units
- ORP: -1000 to +1000 mV;
- T°C: -10°C to +50°C



## PONSEL Nephelometric Turbidity/TSS

Optical technology for optimized measures

- The measure principle is based on IR nephelometry / 850 nm. The sensor can be calibrated with a formazine standard solution. Range:
- 0 to 4000 NTU in 5 ranges (0-50 NTU; 0-200 NTU; 0-1000 NTU; 0-4000 NTU; AUTOMATIC)
- 0 to 4500 mg/L Calibration: Range 0-500 mg/L according to NF EN 872; Range >500mg/L according to NF T 9105 2



## PONSEL Digital MES 5/VB5: Measurement of MES, Turbidity

- The measuring principle is based on the attenuation of IR signal through an optical shot. The sensor delivers measurement in MES (g/l), Turbidity (FAU) & Sludge blanket in % of IR transmission. Range:
- MES 0-50 g/L, Turbidity: 0-4000 FAU, Mud sail: 0-100% MES



## PONSEL OPTOD: Optical Dissolved Oxygen

Optical technology for optimized measurements

- Meets the demands of field works & short term campaigns.
- Allows to measure accurately in all situation & especially in very low oxygen concentrations. Range:
- 0.00 to 20.00 mg/L
- 0.00 to 20.00 ppm
- 0 - 200%
- Stainless steel



## PONSEL CTZN: Inductive Conductivity

Inductive conductivity no sensitive to the fouling

- A ring-type coil is excited at fixed intervals and the response is retrieved on a second coil, which is linked to the excited coil. The connectivity between the coils (determined by the degree of conductivity) takes place via the conducting solution. Range:
- 0.0 - 100.0 mS/cm



## PONSEL TITANIUM OPTOD

Optical digital dissolved oxygen sensor

- The Dissolved Oxygen sensor especially for seawater & corrosive environments. Range:
- 0.00 to 20.00 mg/L
- 0.00 to 20.00 ppm
- 0 - 200%



## PONSEL C4E: Conductivity/Salinity

DIGITAL technology for optimized measures

- The electrode works with a technology in 4 electrodes: an alternating current of constant-voltage is established between a primary's pair of electrodes in graphite. The secondary's electrodes in platinum allow of regulate the voltage imposed to primary's electrodes to reflect of the fouling. The voltage measured between the primary's electrodes is in function of the resistance of place and so, of the conductivity. Range:
- 0 - 200.0  $\mu\text{S}/\text{cm}$
- 0 - 2000  $\mu\text{S}/\text{cm}$
- 0.00 - 20.00 mS/cm
- 0.0 - 200.0 mS/cm



## PONSEL STACSENSE Probe

UV Optical Technology for optimal measurements

- UV 254 special absorption without any reagents or consummable
- Multi-parameter measurement: SAC<sub>254</sub>, CODeq, TOCeq & BODeq, Turbidity eq
- Modbus RS-485 digital communication
- Automatic Turbidity compensation

### Specification

Measurement principle	UV 254nm absorption
Compensation	Turbidity at 530 nm, internal temperature
Wave lengths	254 nm (turbidity correction at 530 nm)
Type of detector	Silicon Photodiode
Light source	LED UV 254+/- 5nm & 530 +/- 5nm
Optical paths	max. 1 measurement/2s
Measurement frequency	2 & 50 mm
Ingress Protection rating	IP68
Max. immersion depth	50 meters
Maximum pressure	5 bars





## SECOMAM PASTEL UV

A reagent free tester for water quality control and effluents with measurements of COD, BOD, TSS, TOC, NO<sub>3</sub>; in urban effluents, natural bodies of surfactant water, water treatment plant output.



### Specification

Spectral range 200 to 350 nm  
Measuring cuvette 2 optical path: 5 & 10 mm  
Weight 9 kg  
Output Display screen (64x128 pixels)  
RS232C bidirectional

### Measuring Range

Correlation with organic matter (5 to 10 mm optical path):

- DCO 1 mg/L to 350 mg/L
  - DBO 0.2 mg/L to 350 mg/L
  - COT 0.5 mg/L to 300 mg/L
  - MES 2.5 mg/L to 100 mg/L
  - Detergent 0.5 mg/L to 60 mg/L
- Nitrate measurement:
- NO<sub>3</sub> 0.5 mg/L to 40 mg/L
  - NO<sub>3</sub>-N 0.11 mg/L to 9.03 mg/L

## SECOMAM STAC2

On-line UV-VIS Alert Analyser for On-line water chemical quality monitoring of BOD / COD / TOC / TSS and Nitrates

### Specification

Sample streams	4 Different samples
Dimensions	H: 500mm W: 400mm Depth: 265mm
Weight	18kg
Protection	IP53
Digital output	1x Ethernet RJ45 port for MODBUS and/or HMI access; 1x WIFI connection for HMI access; 1x USB port for USB Key recorded data history backup
Data readout	On separate PC / tablet or mobile phone
Operating temperature	10°C to 40°C / 50°F to 104°F
Data Storage	On internal SD Card. An internal security backup is performed daily on internal USB drive. Data export on external USB key.
Measuring range	<ul style="list-style-type: none"> <li>• COD: 2 - 8750 mg/L</li> <li>• BOD: 0.5 - 8750 mg/L</li> <li>• TOC: 1 - 7500 mg/L</li> <li>• TSS: 5 - 2500 mg/L</li> <li>• NO<sub>3</sub>: 1 - 1000 mg/L</li> <li>• Turbidity compensation</li> </ul>



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3. Proceed to Generate Quotation or Order Now



# CSQ Laboratory



SAMM 915

CSQ Laboratory (Calibration Laboratory) under CSQ Analytics is granted ISO/IEC 17025:2017 Accreditation by Standards Malaysia, with SAMM No. 915.

We offer calibration for various instruments such as heating block, pH meter, spectrophotometer, photometer, DO meter and more. This included on-site calibration services performed by our experienced engineers and technicians that allow customer to schedule calibration services at once.







SME SERVICE EXCELLENCE AWARD  
PLATINUM BUSINESS AWARD 2020

CSQ<sup>®</sup> | Analytics

| Commitment | Satisfaction | Quality |

# CONSULTATION & TRAINING PROGRAMME

CSQ Analytics is **HRD Corp** registered Training Provider. We provide related consultation & training programme for:

(1) Management System towards Certification / Accreditation:

- ISO 9001
- ISO/IEC 17025
- ISO 45001
- ISO 14001
- HACCP / ISO 22000 / FSSC 22000
- And etc.

(2) Management System Maintenance

(3) Management System Upgrading / Scope Extension

(4) Testing Set-up

(5) Business & People Management and Development:

- Management
- Personal & Interpersonal Development
- Leadership
- Selling & Marketing
- And etc.

Contact us for further details or  
customized Consultation and  
Training Programme!

Plan your training through our Training Planner  
via QR code:



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