



Pool & Spa Products

orbeco **PURFIBER**
HELLIGE *hyflow*

GRUNDFOS 

REGAL
GAS CHLORINATOR

Wherever there's water...

ClearTech is your comprehensive supplier for chemicals, metering pumps, chemical handling equipment, test kits and other supplies.

With offices and warehouses in all major centres from Vancouver to Montreal and alliances with Orbeco-Hellige, Grundfos, Thermo Scientific, Real Tech, Force Flow and Regal Chlorinators, ClearTech is equipped to respond to the water professional's needs.

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Scuba II

Introducing a fun and easy way to check the most important pool water quality parameters at regular intervals!

The Scuba II enables the user to check the pool water quickly and accurately. The integrated sample chamber filled by immersing it in the water. A tablet reagent with long-term stability is added and generates a characteristic color which can be measured using the photometric principle. The result is then displayed on the screen.

Quickly and easily test five parameters in less than 10 minutes:

- Free chlorine
- Total chlorine
- pH
- Alkalinity
- Cyanuric Acid (Stabilizer)

The Scuba II floats and is watertight!

The Scuba II is supplied with the following accessories:

- 20 DPD No.1 & Phenol Red Photometer Tablets
- 10 DPD No.3, CyA-Test & Alka-M-Photometer Tablets
- 2 x AA Batteries
- Tablet Crusher
- Convenient Storage Case



Part Number	Description
LP216100	Scuba II
L364109	Tablet Crusher, 10 cm
LP19802218	Replacement Blue Lid
LP525600	Replacement Reagent Combi-Pack

Ranges & Reagents

Parameter	Range	Method	Replacement Reagents	Reagent P/N
Alkalinity, Total-M	5 - 500	Acid/Indicator	Alkalinity M Photometer Tablets	RT321-0BT
Chlorine (Free & Total)	0.01 - 6.0	DPD	DPD No. 1 Tablets DPD No. 3 Tablets	RT105-0BT RT108-0BT
Cyanuric Acid (Stabilizer)	2 - 160	Melamine	CyA Test Tablet	RT137-0BT
pH Value	6.5 - 8.4	Phenol Red	Phenol Red Photometer Tablets	RT177-0BT

Resolution & Accuracy

Parameter	Resolution	Accuracy
Alkalinity, Total-M	1.0 mg/l	± 50 mg/l
Chlorine (Free & Total)	0.01 mg/l	0 - 1 mg/l ± 0.1 mg/l ; 1 - 2 mg/l ± 0.2 mg/l 2 - 3 mg/l ± 0.4 mg/l ; 3 - 6 mg/l ± 0.5 mg/l
Cyanuric Acid (Stabilizer)	1.0 mg/l	5 - 50 mg/l ± 10 mg/l ; 50 - 160 mg/l ± 20 mg/l
pH Value	0.1 pH	± 0.2 pH

AquaPRO Series



The AquaPRO Series of instruments allow for fast and easy measurement of the most important pool water quality parameters.

The instruments in the AquaPRO Series produces result equivalent to a laboratory grade spectrophotometer right at poolside! They utilize long shelf life tablet reagents.

Test data for 16 data sets (including date and time of test) can be stored in the unit's internal memory and then downloaded to a laptop or PC using the available IRiM infrared data transfer module.

The AquaPRO3 and AquaPRO6 are waterproof and feature a large backlight for use in low level light conditions.

The instrument comes with all required items for testing including the Photometer, sample cells, batteries, operator's manual, and carrying case.

Specifications

Optics	Temperature compensated LED and photo sensor amplifier
Power Supply	4 AAA batteries
Photometric Accuracy	3% Full Scale
Wavelength	± 1 nm
Auto-off	Automatically turns off after 10 minutes of non-use
Display	Backlit LCD
Storage	Ability to store up to 16 data sets with time and date stamp
Calibration	Comes with factory calibration.
Housing	Waterproof (IP 68 rated) and it floats!
Dimensions	6 x 3 x 1.5 inches (L x W x H)
Weight	~ 0.5 pound
Environmental conditions	Temperature: 32 – 104°F rel. humidity: 30 – 90%, non-condensing
Certification	CE

Part Number	Description
LPAP3-10	AquaPRO3 Photometer
LPAP6-10	AquaPRO6 Photometer
MC500-60	IRiM , Infrared Data Transfer Module
LP275680	Secondary Reference Standard Kit
L197620	Sample Cell, Glass , 24 mm with lid, 12 pack
L197635	Cleaning Cloth For Sample Cells
L364109	Tablet Crusher, 10 cm
L385100	Dilution Tube
L369090	Syringe (for accurate water measurement)
9999	Sample Cell Rack

AquaPRO Parameter Guide

Parameter	AquaPRO3 AquaPRO6		Range	Method	Replacement Reagents	Reagent P/N
	<input type="checkbox"/>	<input type="checkbox"/>				
Alkalinity, Total-M	<input type="checkbox"/>	<input type="checkbox"/>	5 - 500	Acid/Indicator	Alkalinity M HR Photometer Tablets	RT324-0
Bromine	<input type="checkbox"/>	<input type="checkbox"/>	0.2 - 20.0	DPD	DPD No. 1 HR Tablets	RT150-0BT
Chlorine (Free & Total)	<input type="checkbox"/>	<input type="checkbox"/>	0.01 - 6.0	DPD	DPD No. 1 Tablets DPD No. 3 Tablets	RT105-0BT RT108-0BT
Chlorine (Free & Total)	<input type="checkbox"/>	<input type="checkbox"/>	0.1 - 10.0	DPD	DPD No. 1 HR Tablets DPD No. 3 HR Tablets	RT150-0BT RT159-0BT
Cyanuric Acid	<input type="checkbox"/>	<input type="checkbox"/>	2 - 160	Melamine	CyA Test Tablet	RT137-0BT
Hardness, Calcium	<input type="checkbox"/>	<input type="checkbox"/>	5 - 500	Murexide	Calcium Hardness Reagent Set	RS7760
pH Value	<input type="checkbox"/>	<input type="checkbox"/>	6.5 - 8.4	Phenol Red	Phenol Red Photometer Tablets	RT177-0BT

IRiM: Data Transfer Device

The IRiM is a device used to transmit data stored on an instrument's internal memory to a PC using either infrared technology or a serial connection. The data can then be saved as an Excel® spreadsheet or as a .txt file. Being able to store and transmit data ensures easy and accurate record keeping.

The IRiM is compatible with the following Orbeco-Hellige Instruments:

- **AquaPRO** Series using Infrared technology
- **MC500 Colorimeter** using Infrared technology
- **Pool Control 9** using a serial connection

The IRiM comes with everything necessary to begin the quick and easy transfer of data to your computer:

- USB cable
- 4 batteries
- Screwdriver
- IRiM Software
- Operating instructions & guarantee certificate



How It Works

1. Connect the IRiM to your PC using the provided USB cable and turn the IRiM on.
2. Open the Photometer Data Acquisition Program (previously installed on your computer) and select the format that you would like your data to be exported as (choose from either an Excel® spreadsheet or as a .txt file).
3. If using Infrared technology to transmit data (AquaPRO or MC500):
 - align the instrument's infrared data port with the infrared port on the IRiM.
 If using a serial connection (Pool Control 9):
 - connect one end of the instrument's serial cable to the instrument and the other end to the serial port on the IRiM.
4. Set your instrument to transmittance mode (instructions for this will vary depending on the instrument, please refer to the instrument's instruction manual for more details) and begin transmitting the stored data.
5. Watch as your data is exported and your selected file type is populated!

MC500 Colorimeter

The MC500 Multi-Parameter Colorimeter is an extremely versatile instrument which tests for a wide range of water quality parameters from Alkalinity to Zinc. Its compact size makes it perfect for poolside testing.

The MC500 has over 90 pre-programmed tests. The parameters/ranges listed below are some of the most requested for pool applications. Please contact us for a complete list of available tests and testing ranges.



Part Number	Description
MC500-10	MC500 Colorimeter
MC500-60	IRiM , Infrared Data Transfer Module
L197620	Sample Cell, Glass , 24 mm with lid, 12 pack
L215640	Verification Standard Kit, MC500 (Zero/430/530/560/580/610/660 nm)

Parameter	Range	Method	Replacement Reagents	Reagent P/N
Acid Demand	0.1 - 4 mmol/L	Acid/Indicator	Alka-M Photometer Tablets	RT321-0BT
Alkalinity, Total-M	5 - 500	Acid/Indicator	Alka-M HR Photometer Tablets	RT324-0
Aluminum	0.01 - 0.3	Eriochrome Cyanine R	Aluminum Reagent Set	RS5460
Ammonia	0.02 - 1	Indophenol	Ammonia Reagent Set	RS5540
Biguanide (PHMB)	2 - 60	Buffer/Indicator	PHMB Tablets	RT610-0
Bromine	0.05 - 13	DPD	DPD No. 1 Tablets	RT105-0BT
Chloride	0.5 - 25	Silver Nitrate/Turbidity	Chloride Reagent Set	RS5910
Chlorine (Free)	0.1 - 8	DPD	DPD Free Chlorine Reagent	RP010-0
Chlorine (Total)	0.1 - 8	DPD	DPD Total Chlorine Reagent	RP012-0
Chlorine (Free & Total)	0.01 - 6	DPD	Chlorine Reagent Set	RS1060
Chlorine (Free & Total)	0.02 - 4	DPD	Chlorine Reagent Set	RS1056
Chlorine (Free & Total)	0.1 - 10	DPD	Chlorine HR (DPD) Reagent Set	RS1500
Chlorine, High Range	5 - 200	Potassium Iodide	Chlorine HR (KI) Reagent Set	RS5480
Chlorine, UHR	0.02 -16%	Potassium Iodide	Chlorine HR (KI) Reagent Set	RS5480
Chlorine Dioxide	0.05 - 11	DPD / Glycine	Chlorine Dioxide Reagent Set	RS7731
Copper	0.05 - 5	Biquinoline	Copper Reagent Set	RS3550
Cyanuric Acid	2 - 160	Melamine	CyA Test Tablet	RT137-0BT
Hardness, Calcium	50 - 900	Murexide	Calcheck Tablets	RT565-0
Hardness, Calcium	0 - 500	Murexide	Calcium Hardness Reagent Set	RS7760
Hardness, Total	2 - 250	Metallphthalein	Hardcheck P Tablets	RT566-0
Hardness, Total	20 - 500	Metallphthalein	Hardcheck P Tablets	RT566-0BT
Hydrogen Peroxide	0.03 - 3	DPD / Catalyst	Hydrogen Peroxide LR Tablet	RT238-0
Iodine	0.05 - 3.6	DPD	DPD No. 1 Tablet	RT105-0BT
Iron (II, III Soluble)	0.02 - 1	PPST	Iron LR Reagent Set	RS5370
Ozone	0.02 - 1	DPD/Glycine	Ozone Reagent Set	RS2170
Phosphate, Ortho	0.05 - 4	Phosphormolybdic Blue	Phosphate Reagent Set	RS3040
pH Value	6.5 - 8.4 pH	Phenol Red	Phenol Red Photometer Tablets	RT177-0BT
Urea	0.1 - 3	Indophenol/Urease	Urea Reagent Set	RS9300
Zinc	0.02-1	Zincon	Zinc Reagent Set	RS2620

SD Series E-Chem Testers

The instruments in the SD Series of E-Chem Testers are easy to use and are available for a wide variety of testing parameters. These hand-held meters have a robust housing, are completely waterproof, and are ideal for field testing in environmental or industrial settings as well as for pool and spa testing.

SD 50 pH

Range	0-14 pH (0-60°C); -1800 ~ 1800 mV
Resolution	0.01 pH
Accuracy	± 0.05 pH
Resolution	within ± 1000 mV: 0.1 mV outside ± 1000 mV: 1 mV Accuracy: ± 20 mV:
Resolution Temperature	0.1°C; Accuracy ± 1°C Selectable °C / °F System
Selectable Buffer System	pH 7.00 or pH 6.86
Calibration	1, 2 or 3 points with auto recognition of standards (NIST / IUPAC)
Temperature Compensation	Automatic
Memory	25 sets of data with Time & Date display / stamp
Display	22 x 22 mm LCD Screen with backlit display
Power Supply	2 x CR2032 Batteries
Battery Life	> 25 Hours (continuous use)
Auto-off	8 minutes non-use
Conformity	CE
Ordering Information:	
Instrument:	L194800
Replacement Probe:	L194820

SD 70 Conductivity

Range	< 20.00 mS (0-60°C)
Resolution	1 µS (≤ 1999 µS)
Resolution Temperature	0.1°C; Accuracy ± 1°C Selectable °C / °F System
Auto conversion from µS and mS	µS: 1-1999 mS: 2.00 - 20.00
Calibration	1 or 2 points with auto recognition of standards (1413 µS or 12.88 mS). Up to 2 points calibration manual mode ± 50% adjustable
Temperature Compensation	Automatic
Memory	25 sets of data with Time & Date display / stamp
Display	22 x 22 mm LCD Screen with backlit display
Power Supply	2 x CR2032 Batteries
Battery Life	> 25 Hours (continuous use)
Auto-off	8 minutes non-use
Conformity	CE
Ordering Information:	
Instrument:	L194802
Replacement Probe:	L194822

SD 60 ORP/Redox

Range	-1800 ~ 1800 mV (0-60°C)
Resolution	0.01 pH
Resolution	within ± 1000 mV: 0.1 mV outside ± 1000 mV: 1 mV
Accuracy	± 20 mV
Resolution Temperature	0.1°C; Accuracy ± 1°C Selectable °C / °F System
Calibration	1 point with a ± 150 mV adjustable ORP value
Temperature Compensation	Automatic
Memory	25 sets of data with Time & Date display / stamp
Display	22 x 22 mm LCD Screen with backlit display
Power Supply	2 x CR2032 Batteries
Battery Life	> 25 Hours (continuous use)
Auto-off	8 minutes non-use
Conformity	CE
Ordering Information:	
Instrument:	L194801
Replacement Probe:	L194821

SD 80 TDS

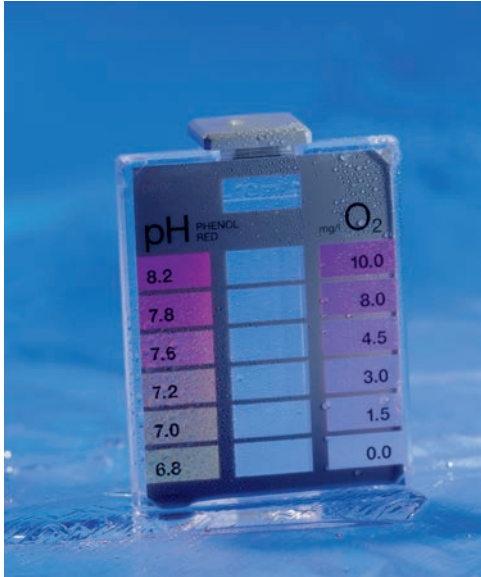
Range	< 10.00 ppt (0-60°C)
Resolution	1.0-10.00 ppt: 0.01 ppt ≤ 999 ppm: 1 ppm
Resolution Temperature	0.1°C; Accuracy ± 1°C Selectable °C / °F System
Auto conversion from ppm and ppt	ppm: 0 - 999 ppt: 1.00 - 10.00
Calibration	up to 2 points in manual mode ± 50% adjustable
Temperature Compensation	Automatic
Memory	25 sets of data with Time & Date display / stamp
Display	22 x 22 mm LCD Screen with backlit display
Power Supply	2 x CR2032 Batteries
Battery Life	> 25 Hours (continuous use)
Auto-off	8 minutes non-use
Conformity	CE
Ordering Information:	
Instrument:	L194803
Replacement Probe:	L194822



SD 90 Salt

Range	< 20.00 ppt (2% at 0-60°C)
Resolution*	2.0-20.00 ppm: 0.01 ppt < 2000 ppm: 1 ppm
Resolution Temperature	0.1°C; Accuracy ± 1°C Selectable °C / °F System
Auto conversion from ppm and ppt	ppm: 0 - 1999 ppt: 2.00 - 20.00
Calibration	up to 2 points in manual mode ± 50% adjustable
Selectable Units	"P" % or ppt/ppm
Temperature Compensation	Automatic
Memory	25 sets of data with Time & Date display / stamp
Display	22 x 22 mm LCD Screen with backlit display
Power Supply	2 x CR2032 Batteries
Battery Life	> 25 Hours (continuous use)
Auto-off	8 minutes non-use
Conformity	CE
Ordering Information:	
Instrument:	L194804
Replacement Probe:	L194822

Visual Pool Kits



MINITESTER

The MINITESTER with an interchangeable color comparison chart is a competitively priced starter unit with one measuring chamber for the determination of either chlorine, bromine, active oxygen and pH value.

THREE-CHAMBER-TESTER

The THREE-CHAMBER-TESTER with an interchangeable color comparison chart is a competitively priced unit for the determination of disinfectants and the pH value.

POOLTESTER

The POOLTESTER allows simultaneous determination of the most popular water treatment agents and the pH value.

Description	Part Number	Description	Part Number	Description	Part Number
Chlorine & pH Chlorine: 0.1-3.0 / pH value: 6.8-8.2	LP157060	Chlorine & pH LR Chlorine: 0.1-3.0 / pH value: 6.8-8.2	LP157520	Chlorine & pH LR Chlorine 0.1-3.0 / pH value 6.8-8.2	LP151600
Bromine & pH Bromine: 1 - 8 / pH value: 6.8-8.2	LP158020	Chlorine & pH HR Chlorine: 0.5-6.0 / pH value: 6.8-8.2	LP158010	Chlorine & pH HR Chlorine 0.5-6.0 / pH value 6.8-8.2	LP151601
Active Oxygen / pH Active Oxygen: 0-10 / pH value: 6.8-8.2	LP157380	Bromine & pH Bromine: 1 - 8 / pH value: 6.8-8.2	LP157200	Bromine & pH Bromine 1 - 8 / pH value 6.8-8.2	LP151604
		Active Oxygen / pH Active Oxygen: 0-10 / pH value: 6.8-8.2	LP157610	Active Oxygen / pH Active Oxygen 0-10 / pH value 6.8-8.2	LP151605
		Biguanide (PHMB) & pH PHMB: 10-100 / pH value: 6.8-8.2	LP156150	Copper LR/HR and pH Copper: 0.1-1.0 / 0.5-5.0 pH value: 6.8-8.2	LP155190
		4 in 1 Chlorine: 0.1-3.0 pH value: 6.8-8.2 Total Alkalinity: 50-300 Cyanuric Acid: 20-100	LP157535	Active O₂, Copper & pH Active Oxygen: 0-10 Copper: 0.1-1.0 pH value: 6.8-8.2	LP155235
				Biguanide (PHMB), pH and Hydrogen Peroxide PHMB 10-100 pH value 6.8-8.2 Hydrogen Peroxide: 5-50	LP156100
				QAC* & pH QAC*: 25-150 pH value: 6.8-8.2	LP151040



Our visual test kits as well as our instruments utilize tablet reagents for water analysis. Tablet reagents are easier than ever to use thanks to our new "Blister" packaging -- simply push the tablet through the foil into the sample.

Many tablets have a 10 year shelf life!

* QAC = Quaternary Ammonia Compounds

Tablet Reagents

Tablet reagents are available in two types:

- **Visual Grade (RAPID Tablets)** -- users can identify this type of tablet by descriptions that contain the word "Rapid" (for example, DPD No. 1 Rapid Tablet). These reagents are formulated to dissolve quickly and easily and are for use primarily in our MINIKITS and Aqua Comparator Test Kits.
- **Instrument Grade** -- These tablets are formulated for use in our colorimeters and spectrophotometers. These tablets typically take a little longer to dissolve to ensure no extra turbidity is created.

Instrument Grade Tablets

Description	Qty.	Part Number
Acidifying GP Tablets	100	RT548-0BT
	250	RT548-1BT
ALK LR Tablets	100	RT604-0
Copper No. 1 Tablets	100	RT355-0BT
	250	RT355-1BT
CYA Test Tablet (Cyanuric Acid / Stabilizer)	100	RT137-0BT
	250	RT137-1BT
DPD No. 1 Tablets	100	RT105-0BT
	250	RT105-1BT
	500	RT105-2BT
DPD No. 1 HR Tablets	100	RT150-0BT
	250	RT150-1BT
	500	RT150-2BT
DPD No. 3 Tablets	100	RT108-0BT
	250	RT108-1BT
	500	RT108-2BT
DPD No. 3 HR Tablets	100	RT108-0BT
	250	RT108-1BT
	500	RT108-2BT
DPD No. 4 Tablets	100	RT122-0BT
	250	RT122-1BT
	500	RT122-2BT
Hydrogen Peroxide LR	100	RT238-0
	250	RT238-1
MPS Out Tablets	100	RT593-0
Phenol Red Photometer	100	RT177-0BT
	250	RT177-1BT
	500	RT177-2BT
PHMB (Biguanide) Tablets	100	RT610-0
	250	RT610-1
QAC HR Tablets	100	RT540-0
	250	RT540-1



Visual Grade Tablets

Description	Qty.	Part Number
DPD No. 1 Rapid Tablets	100	RT131-0BT
	250	RT131-1BT
	500	RT131-2BT
DPD No. 3 Rapid Tablets	100	RT129-0BT
	250	RT129-1BT
	500	RT129-2BT
DPD No. 4 Rapid Tablets	100	RT157-0BT
	250	RT157-1BT
	500	RT157-2BT
MPS Out Rapid Tablets	100	RT590-0
Phenol Red Rapid Tablets	100	RT179-0BT
	250	RT179-1BT
	500	RT179-2BT

Combi-Packs for Visual Test Kits

Description	Part Number
Chlorine & pH Contains: 30 DPD No. 1 Rapid Tablets & 30 Phenol Red Rapid Tablets.	LP515884
Bromine & pH Contains: 30 DPD No. 1 Rapid Tablets & 30 Phenol Red Rapid Tablets.	LP515868
Active Oxygen / pH Contains 30 DPD No. 4 Rapid Tablets & 30 Phenol Red Rapid Tablets.	LP515934
Active Oxygen, Copper & pH Contains: 20 DPD No. 4 Rapid Tablets, 20 Copper No. 1 Tablets, and 20 Phenol Red Rapid Tablets.	LP515865
PHMB, Hydrogen Peroxide & pH Contains: 20 PHMB Tablets, 20 Hydrogen Peroxide Tablets, 20 Acidifying GP Tablets, and 20 Phenol Red Rapid Tablets	LP515870
PHMB & pH Contains: 30 PHMB Tablets and 30 Phenol Red Rapid Tablets.	LP516155
QAC HR & pH Contains: 20 QAC Tablets, 20 Acidifying GP Tablets, and 20 Phenol Red Rapid Tablets	LP515869
Copper & pH Contains: 30 Copper No. 1 Rapid Tablets & 30 Phenol Red Rapid Tablets.	LP515778
4-in-1 Tester Contains: 20 DPD No. 1 Rapid Tablets, 20 Phenol Red Rapid Tablets, 20 ALK LR Tablets and 20 CYA Test Tablets.	LP515935

Chemicals

ClearTech is your comprehensive supplier for chemicals. With locations from Vancouver to Montreal, we have a location close to you. Our commitment to serving our customer needs in chemical supply, chemical handling, equipment and logistics is shown in our commitment to Responsible Distribution® and certification to ISO9001:2008.

Contact us at 1-800-387-7503 or orders@cleartech.ca and let us help with your chemical supply needs.

Parameter	Format	Qty.	P/N
Activated Carbon		Call for Details	
Algysolve 2250	Liquid	4 L	AG2211-55300
Aluminum Sulphate		25 kg bag	ALUM03
Aluminum Sulphate	Liquid	25 kg pail	ALLQ13
Calcium Chloride 83%	Flake	25 kg bag	CC8D03
Calcium Hypochlorite	Granular	30 kg drum 20.4 kg drum 10 kg pail 6 x 2.27 kg case 2.27 kg jar	CHYP04 CHYP00 CHYP13 CHYP19 CHYP99
Calcium Hypochlorite (CHLORTABS)	Tablets	10 kg pail	TAB01
Calcium Plus		2 kg 8 kg	CALC11 CALC12
Captor (Calcium Thiosulphate dechlorinator)	Liquid	25 kg pail 256 kg drum	CATS13 CATS45
Caustic Soda 50%	Liquid	30 kg carboy 171 kg drum 304 kg drum 1672 kg pallet tank	CSLQ20 CSLQ25 CSLQ45 CSLQ24
Chlorine	Liquid	68 kg cylinder	CL2*68
Citric Acid, 50%	Liquid	25 kg pail 260.4 kg drum	CALQ13 CALQ45
Control (Alkalinity)		2 kg 8 kg	CONT10 CONT11
Cyanuric Acid		50 kg drum 12 kg pail	C19509 C19513
Defoamer (for spas, foam-free)	Liquid	4 x 4 L	FOAM10



Parameter	Format	Qty.	P/N
Diatomaceous Earth (DE) swim pool grade		22.7 kg bag	DESP02
		11.34 kg bag	DESP01
Dechlorinating Pucks	Tablets	48 lb	DECH01
Deck Clean	Liquid	20 L (NR)	DECK20
Filter Sand	Granular	Call for details	
Hydrochloric Acid 20° Be (31 w/w%)	Liquid	4 x 4 L case 18.7 kg)	HCL*18
		23 kg pail	HCL*13
		23 kg carboy	HCL*20
		130 kg drum	HCL*25
		240 kg drum	HCL*45
		1425 kg Tote Tank	HCL*28
Hydrogen Peroxide, 29% standard grade	Liquid	22 kg carboy	HPS2922
		125 kg drum	HPS2925
		230 kg drum	HPS2945
Hydrogen Peroxide, 35% standard grade	Liquid	22.5 kg carboy	HPS322
		236 kg drum	HPS345
pH Down (Dry Acid)		3 kg	PHDO10
		10 kg	PHDO11
		20 kg	PHDO20
pH Down (Muriatic Acid)	Liquid	4 x 4 L	MURI10
		23 kg (NR)	MURI20
		23 kg	MURI1C
		245 kg	MURI70
		1275 kg	MURI90
pH Up		2 kg	PHLP10
		8 kg	PHLP11
		20 kg	PHLP21
Purifibre Hy Flow filter media		11.34 kg bag	PFHY01
Safety Clean Acid		Call for Details	
Salt swim pool grade	Granular	22.7 kg bag	SALT03
Sodium Bicarbonate		22.7 kg bag	SBPD-02
Sodium Bisulphate		25 kg pail	SBSG14
Sodium Bisulphite, 38% (For dechlorinating)		27 kg pail	SBCG13
		273 kg pail	SBCG45
Soda Ash, Dense NSF grade		25 kg bag	SANSF03
Sodium Hypochlorite 12%	Liquid	20 L pail	SHYP13
		20 L carboy	SHYP20
		114 L drum	SHYP25
		210 L drum	SHYP45
		1230 L pallet tank	SHYP28
		Bulk	SH1299
Sodium Sulphite		22.7 kg bag	SFIT02
Sodium Thiosulphate		25 kg bag	THIO03
Stabilizer		2 kg	STAB01
		8 kg	STAB11
		20 kg	STAB20
		50 kg drum	CYAACI01
Tabex Pucks		8 kg	TBXP00-7500
Tabex Shock'n'Swim (non chlorinated shock)		8 kg	TBXS00-6400

TB200 Portable Turbidimeter

Specifications

Range	Auto Ranging from 0 -1100 NTU	
Resolution	< 100 NTU	0.01 NTU
	100 - 999.9 NTU	0.1 NTU
	1000 - 1100 NTU	1 NTU
Accuracy	± 2%	0-500 NTU
	± 3%	500-1100 NTU
Response Time	14 seconds	
Power Supply	4-AA Batteries (included)	
Dimensions (L x W x H)	8.25 x 3.75 x 7.75 inches	
Display	4 digit (7segment) LCD	
Insulation Rating	Pollution Degree 2	
Operating Temperature Range	0– 50°C (32– 122°F)	
Sample Temperature Range	0– 50°C (32– 122°F)	
Principle of Operation	Nephelometric	
Light Source	TB200: Tungsten Lamp TB200-IR: 860 NM LED	
Sample Cells	10 mL	
Conformance	TB200: USEPA Method 180.1 TB200-IR: ISO 7027	
Certification	CE	



The TB200™ Portable Turbidimeter from Orbeco-Hellige allows fast and easy turbidity measurement in both the field and in the laboratory.

Using a white light source and 90° detection, the TB200 meets the USEPA specifications for turbidity measurement (EPA Standard 180.1). Also available in an Infrared version, the TB200-IR is ISO 7027 compliant.

The instrument features an auto-ranging function that automatically selects the correct turbidity range for your sample. Calibration is simple with the included calibration standards.

A power efficient microcircuit design allows the instrument to yield 5,000 tests on 4-AA alkaline batteries with an estimated 7 to 10 year bulb life. Integrated diagnostics confirm proper operation and accuracy.

Part Number	Description
TB200-10	TB200 Portable Turbidimeter Includes instrument, 2 sample cells, batteries and calibration set in a convenient carrying case
TB200IR-10	TB200-IR Infrared Portable Turbidimeter Includes instrument, 2 sample cells, and calibration set in a convenient carrying case
TB200-50	Sample Cells, 3 Pack
TB200-60	Calibration Set Includes standards for 0.02, 10.0 and 1000 NTU



Purifiber® Filter Media

PURIFIBER® hyflow

Purifiber®, the only NSF® 50 Performance, Health and Safety-Certified filter media!

Purifiber® is a completely safe to handle, high performance product that offers superior water clarity and longer filtering cycles while using less material than any other filter media on the market today.

You save time and money — an outstanding value for your pool!

- SAFE:** Non-toxic and biodegradable. Safe for people and the environment
- EFFECTIVE:** Filters down to 2 microns, forms a more uniform cake, eliminates migration from the filter. Polishes the water sparkling clean.
- EFFICIENT:** Filter cycles are 2-10 times greater than with DE.
- ECONOMICAL:** Outperforms DE while only using ¼ the product by weight. Also saves water and chemicals during backwashing, and requires less labour for service.
- LONGER LIFE:** Purifiber is nonabrasive, so it's easier on equipment

Part Number	Description
PFHY01	Purifiber® Hyflow Pool Filter Media, 11.34 kg bag

Test Strips



Test Strips are a fast, easy and economical solution to your water quality testing needs.

- Safe chemistries
- All required reagents are pre-measured and ready to use.
- Simply dip the strip into a water sample, remove, allow the colors to develop, read the result and discard the strip!

**Contact us for details:
1-800-387-7503 or
orders@cleartech.ca**



SMART Digital – DDA Pumps



Digital Dosing

The SMART Digital DDA with a powerful variable-speed stepper motor brings state-of-the-art technology to perfection. Combining expert knowledge and the new patented solutions set future standards. Traditional technologies such as stroke length / stroke frequency adjustment with synchronous motor or solenoid drive become a thing of the past.

Unique flexibility with only a few variants

The included click-stop mounting plate makes the new pump more flexible. Three different positions are possible without using any additional accessories. Service and pump exchange can now be done easily and fast by just clicking the pump in and out of the mounting plate. The control cube on the DDA pump can be easily turned into three different positions. A turn-down ratio of up to 1:3000, a wide supply voltage range (100-240 V; 50/60 Hz), combined connection sets and other features reduce the models and variants to a minimum.

Precise and easy setting

The operator can easily install the pump and set it to discharge exactly the quantity of dosing liquid required for the application. In the display, the setting of the pump is read out directly, the flow is shown in ml/h, l/h, or gph. The click wheel and the graphical LC display with plain-text menu in more than 25 languages make commissioning and operation intuitive. As the LCD is backlit in different colours, the pump status can be seen from a distance. Thanks to a variety of operation modes, signal inputs and outputs, the pump can easily be integrated into every process.

Advanced process reliability

An intelligent drive and microprocessor control ensure that dosing is performed precisely and with low pulsation, even if the pump is dosing high-viscosity or degassing liquids. Malfunctions are detected quickly by the maintenance-free FlowControl system and then displayed in the alarm menu.

Designed to save costs

In general, the investment for a dosing pump installation is low compared to its life cycle costs, including the cost of the chemicals. **The following features contribute to the SMART Digital DDA's low life cycle costs:**

- No underdosing or overdosing due to high dosing accuracy and FlowControl
- Longer maintenance intervals thanks to the universal chemical resistance of the full-PTFE diaphragm
- Reduced energy consumption thanks to state-of-the-art drive technology

Product Range and Performance Data

	Capacity	DDA 7.5-16	DDA 12-10	DDA 17-7	DDA 30-4
Capacity at Max Pressure	gph (l/h)	1.98 (7.5)	3.17 (12)	4.5 (17)	8 (30)
Max Pressure	psi (bar)	232 (16)	150 (10)	101.5 (7)	60 (4)
Setting Range		3000:1	1000:1	1000:1	1000:1
Stroke Frequency	spm	190	155	205	180
Suction Lift: Primed/Dry	ft (m)	19.6 (6)/6.2 (2)	19.6 (6)/9.8 (3)	19.6 (6)/9.8 (3)	19.6 (6)/6.5 (2)
Viscosity (Slow Mode)*	cps	2500 / 50	2500 / 300	2000 / 300	1500 / 150
Power Supply	V, Hz	100 - 240 V 50 / 60 Hz	100 - 240 V 50 / 60 Hz	100 - 240 V 50 / 60 Hz	100 - 240 V 50 / 60 Hz
Accuracy	%	± 1	± 1	± 1	± 1

* With Spring-Loaded valves

Part Number	Description
97722369	DDA 7.5-16 AR-PVC/N/C-F-31U7U7BG
97722471	DDA 12-10 AR-PVC/N/C-F-31U7U7BG
97722574	DDA 17-7 AR-PVC/N/C-F-31U7U7BG
97722676	DDA 30-4 AR-PVC/N/C-F-31U7U7BG

Installation kit(s) sold separately. Flow Control (FC) and Flow Control Monitoring (FCM) variants are available.



Installation Kits & Spare Parts

Part Number	Description
95730490	Installation Kit for DDA 7.5-10 and 1/4" OD Line Includes spring-loaded injection check valve (4" insertion length), with 1/4" OD tube connection set x 1/2" MNPT connection, footvalve with ceramic weight, and tubing. 1/4" tubing allows a flowrate of up to 7.5 Lph.
95730498	Installation for DDA pump and 3/8" OD line Includes spring-loaded injection check valve (4" insertion length), with 3/8" OD tube connection set x 1/2" MNPT connection, footvalve with ceramic weight, & tubing. 3/8" tubing allows a flowrate of up to 30 Lph.
95730506	Installation Kit for DDA Pump; 1/2" tube, PVC/V/C Includes spring-loaded injection check valve (4" insertion length), with 1/2" OD tube connection set x 1/2" MNPT connection, foot valve with ceramic weight, & tubing. 1/2" tubing allows a flowrate of up to 60 Lph.
96609014	Control Cable with plug. For Pulse, 4-20 mA, Start/Stop input. 2 metre (6 foot) length
97751479	Spare Parts Maintenance Kit for DDA 7.5-16 Includes suction and discharge check valves (PVC body, Viton gaskets, ceramic ball), Teflon diaphragm, seals.
97751497	Spare Parts Maintenance Kit for DDA 12-10 & DDA 17-7 Includes suction and discharge check valves (PVC body, Viton gaskets, ceramic ball), Teflon diaphragm, seals.
97751515	Spare Parts Maintenance Kit for DDA 30-4 Includes suction and discharge check valves (PVC body, Viton gaskets, ceramic ball), Teflon diaphragm, seals.
96295882	Tank Level Control Unit The sensor is placed in chemical tank & connects to pump with a round plug. Provides warning signal when chemical level is low & will stop pump if chemical runs out. PVC body & ceramic weight.

Gas Chlorinator



SAFEST.....BECAUSE THEY'RE REGAL

REGAL™ Chlorinators are known worldwide as the safest on the market. Here's why:

- They clamp directly onto the cylinder valve with the strongest, most corrosion-resistant yoke in the industry.
- In the chlorinator system, the gas is never under pressure. Chlorine is drawn from the cylinder by a vacuum created by the flow of water through the ejector. If any part of the system is damaged, the gas shuts off immediately and automatically.
- The REGAL ejector nozzle (venturi) – the component that creates the vacuum which draws the gas from the cylinder – is a single, precisely manufactured piece, made of strong, corrosion-resistant plastic.
- The REGAL single-piece high pressure check valve is made of a special, chlorine resistant material. The REGAL low pressure check valve uses a very strong closing spring and a large area diaphragm, to minimize friction loss or pressure drop across the check valve area.

Two Standard Versions Available!

Regal Model 216 Chlorination System- Automatic Switchover System

Includes (2) automatic switchover vacuum regulators, remote meter panel assembly (rotameter), switchover pressure relief valve (vent) with mounting bracket, ejector assembly, 15 m of tubing, & a cylinder wrench. Minimum chlorine feed rate is 1/20 of maximum specified feed rate. Maximum required feed rates of 4, 10, 25, 50, 100 ppd.

Regal Model 210 Chlorination System-Manual Chlorinator System

Includes (1) vacuum regulator with integrated feed rate metering tube, ejector assembly, 15 m of tubing, & a cylinder wrench. Minimum chlorine feed rate is 1/20 of maximum specified feed rate. Maximum required feed rates of 4, 10, 25, 50, 100 ppd.

Part Number	Description
R21600	Regal Model 216 Chlorination System, Automatic Switchover System
R21000	Regal Model 210 Chlorination System, Manual Chlorinator System

Gas Detector & SMARTVALVE™

Regal Series 7000 SMARTVALVE™

The REGAL SMARTVALVE™ is designed to automatically regulate the gas feed rate needed to maintain the chemical residual level determined for a specific water treatment application. The main factors involved when selecting the proper SMARTVALVE™ system include the volume of water being treated in conjunction with the quality and flow (fixed or variable) of the water.

Models 7001 and 7006 are used exclusively for FLOW PROPORTIONAL control. Flow Proportional control applies when the flow rate of the water continuously varies but the quality remains the same. The SMARTVALVE receives 4-20mA signals from an upstream water flow meter and adjusts the gas feed rate accordingly.

Models 7009 and 7010 are more advanced models that can be configured for use in multiple Control Schemes. If desired, these models may be used for standard Flow Proportional control, however, the Model 7009 and 7010 are designed specifically for more complex Chlorination and De-chlorination applications which include Residual Only Control and Compound Loop Control.

Regal Series 3000 Single Sensor Gas Leak Detector

Continuously displays presence of chlorine (0-10 ppm) gas on a 3 digit numeric display.

- Senses the presence of free chlorine in the environment – at levels even lower than those mandated by OSHA.
- Accurately scans the active sensors while displaying and transmitting correct data in 1 minute.
- Bargraph LED's representing the highest detected gas level stay lit until manually reset even as the gas concentration decreases.
- Six relay circuits are included (2 Warning, 2 Danger, 1 Horn/Failure and 1 Latch). All relays except the Horn/Failure relay can be configured for normal or failsafe operation

Complete with wall mounted NEMA 4X enclosed input detector, watertight UL Approved sensor with 7.5 m of cable* & operations manual.

Optional serial communications output circuit board &/or battery back-up module sold separately.
110/240 VAC.

Part Number	Description
SR3000	Regal Series 3000 Single Sensor Gas Leak Detector
SR3002	Regal Series 3000 Dual Sensor Gas Leak Detector
3063	Battery Back Up for Series 3000 Leak Detectors
8500-1	RS232 Serial Communications Output circuit board for Series 3000 Leak Detectors
8500-2	RS485 Serial Communications Output Circuit Board
7001	Regal Model 7001 SmartValve - Flow Proportional Control automatically regulates feed rate (via 4-20mA input) of Regal chlorinators
7002	Regal Model 7002 SmartValve - Step Rate Control automatically regulates feed rate (via 4-20mA input) of Regal chlorinators
7009	Regal Model 7009 SmartValve - Can be configured to control by Flow Proportional, Residual Only, Compound Loop (Flow & Residual), or Feed Forward Dechlorination*. Can be operated automatically or manually. Configurable low flow alarm. Turn down feed ratio of 10:1.
7010	Regal Model 7010 SmartValve - Can be configured to control by Flow Proportional, Residual Only, Compound Loop (Flow & Residual), or Feed Forward Dechlorination*. Can be operated automatically or manually. Configurable low flow alarm. Turn down feed ratio of 10:1.
7500	7500 Remote Meter Panel Assembly – Must specify required feed rate when ordering: 10, 25, 50, 100, 250, or 500 ppd.
7090	SmartValve Serial Communications board- Isolated RS232/RS422/RS485 (2/4 wire) module

Accessories

Bushings, PVC

Part Number	Description
BUSH01	3/4" MNPT x 1/4" FNPT
BUSH02	1" MNPT x 1/4" FNPT
BUSH03	1 1/4" MNPT x 1/2" FNPT
BUSH04	1/2" MNPT x 1/4" FNPT
BUSH05	3/4" MNPT x 1/2" FNPT
BUSH06	1" MNPT x 1/2" FNPT
BUSH07	3/8" MNPT x 1/2" FNPT

Compression Fittings

Part Number	Description
CMP001	1/4" MNPT x 1/4" Tubing, PP
CMP002	1/4" MNPT x 3/8" Tubing, PP
CMP012	1/4" MNPT x 1/2" Tubing, PP
CMP004	1/2" MNPT to 3/8" Tubing, PP
	1/2" MNPT to 1/2" Tubing, PP
PIP-1L	Measuring Pitcher, 1 L
PIP-5L	Measuring Pitcher, 5 L

Transfer Pumps

Part Number	Description
236PF6-S	Manual Acid drum transfer pump
436PF6-s	Manual Alk. drum transfer pump
MP1209F	Acid Hand Carboy Pump
ADPT-CO1	Pail Adapter for MP1209F

Discharge Tubing, white/opaque HDPE, Rated to 250 psi

Part Number	Description
359-4	1/4" OD
359-6	3/8" OD
359-8	1/2" OD

Suction Tubing, Clear PVC

Part Number	Description
HOSE10	1/4" OD (65 psi)
HOSE1	3/8" OD (55 psi)
HOSE3	1/2" OD (45 psi)

Miscellaneous Items

Part Number	Description
WO405	Carboy wrench 63 mm 6 notch, plastic
DRWR00	Drum Wrench
1313T	Cylinder Wrench, twist style for chlorine
IND001	Drum Level indicator
GLNSR-XLRG	Nitril Chemical Handling Gloves, XL
GLNSR-LR	Nitril Chemical Handling Gloves, L
GLNPF-XLRG	Nitrile Glove, powder free, XL
GLNPF-LRG	Nitrile Glove, powder free, L
GLNPF-MED	Nitrile Glove, powder free, M
GLNPF-SM	Nitrile Glove, powder free, S
GLLPF-LRG	Latex Gloves, Powder Free, L
GLLPF-MD	Latex Gloves, Powder Free, M
GLLPF-SM	Latex Gloves, Powder Free, S



Chlorine Tubing - Black LDPE For Vacuum Systems

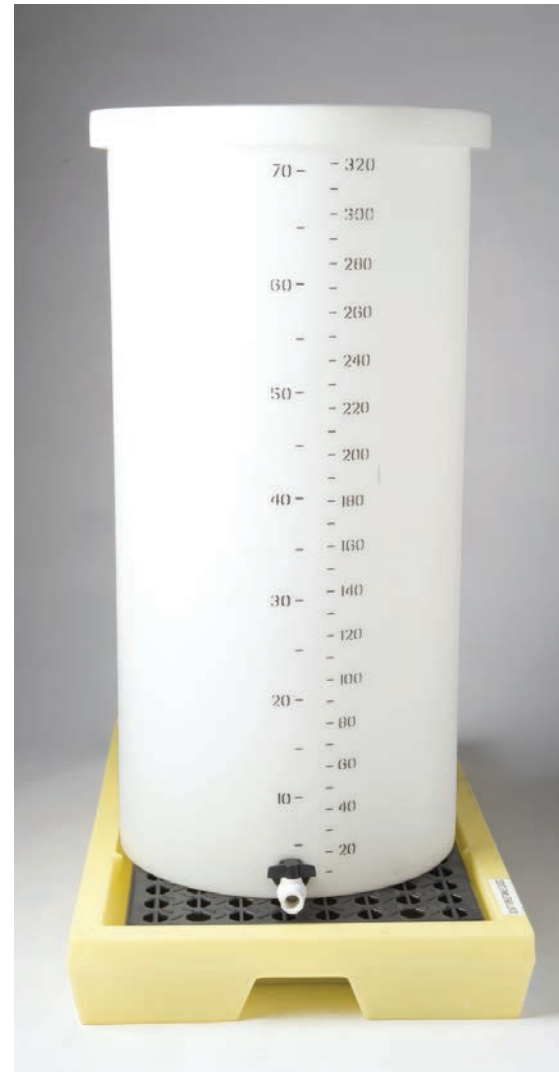
Part Number	Description
HOSE5	3/8" OD black LDPE (125 psi, to 100 ppd)
HOSING	1/2" OD black LDPE (100 psi, 250 ppd)
HOSE13	5/8" OD black LDPE (100 psi, 500 ppd)

Miscellaneous Tubing

Part Number	Description
HOSE19	3/8" OD Braided PVC (clear, reinforced, 250 psi)
HOSE20	1/2" OD Braided PVC (clear, reinforced, 250 psi)
NOR001	1/4" OD Polypropylene, black for sulphuric acid, 300 psi)
NOR003	1/4" OD Polypropylene, white for sulphuric acid, 300 psi)
NOR004	1/2" OD Polypropylene (white, for sulphuric acid, 300 psi)

Polyethylene Chemical Day Tanks

Part Number	Description
OTC012	Graduated 55 L Cylindrical Tank, 16" dia. X 28" h, with lid, 1/2" bulk head fitting, plug
OTC020	Graduated 90 L Cylindrical Tank, 21" dia. X 27" h, with lid, 1/2" bulk head fitting, plug
OTC045	Graduated 205 L Cylindrical Tank, 27" dia. X 35" h, with lid, 1/2" bulk head fitting, plug
OTC075T	Graduated 340 L Cylindrical Tank, 27" dia. X 53" h, with lid, 1/2" bulk head fitting, plug
OTC075S	Graduated 55 L Cylindrical Tank, 35" dia. X 33" h, with lid, 1/2" bulk head fitting, plug



Spill Containment

Part Number	Description
5117-YE	2 drum work station (135 cm x 72 cm x 15 cm) load capacity of 1080 kg and sump capacity of 83.3 L
5116-YE	4 drum work station (133 cm x 135 cm x 15 cm) load capacity of 2721 kg, sump capacity of 162.8 L
5111-BK	Work station ramp
1321	Ultra Spill Deck, 1 drum (71 cm x 71 cm x 15 cm) load capacity 680 kg, sump capacity 41.6 L
	Ultra Spill Deck, 2 drum (132 cm x 71 cm x 15 cm) load capacity 1360 kg, sump capacity 83.3 L
1089	Ultra Spill Deck Ramp
1157	Ultra IBC Spill Pallet Plus (w/o drain)
1158	Ultra IBC Spill Pallet Plus (w drain)



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