



Water/Wastewater Laboratory Supplies Catalog

1-800-28WORLD

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ALL WORLD SCIENTIFIC

WATER/WASTEWATER LABORATORY SUPPLIES CATALOG

2001

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general policies

All World Scientific distributes scientific supplies and equipment nationwide. We employ a helpful, knowledgeable sales department to make placing your orders easier.

Pricing All pricing is current at the time of publication, though subject to change without prior notification.

Minimum Order None

Processing & Handling Charges None

UPS Hazardous Materials surcharges (current at time of publication)

\$12 per container for ground shipments

\$18 per container for air shipments

FOB Lynnwood, WA or Ship Point for drop ship orders

Terms Net 30 days, after credit is established. Visa, MasterCard and American Express accepted.

Shipping All materials are shipped the most economical way possible in accordance with all carrier and D.O.T. regulations. Prices normally include packaging, although occasionally special packaging charges may be added, where required, on hazardous materials. Express orders may be shipped by UPS (NEXT DAY, SECOND DAY or THIRD DAY), AIRBORNE or FEDERAL EXPRESS. Airborne and Federal Express shipments ship with customers client account # only (collect or third party).

Freight Claims Upon arrival of shipment all packages should be inspected for damage or shortages. Do not accept damaged items until the carrier's driver makes a damage notation on your freight bill of lading. If damage is concealed, the carrier's inspector must be notified of the concealed damage and an inspection request must be made within 7 days of receipt.

Under ALL circumstances retain damaged containers and packing materials for inspection. Damaged shipments, and all claims for such, are the responsibility of the carrier. If a shortage is noted upon arrival of a shipment, have the carrier's driver make an appropriate notation on your freight bill or receipt, and file a claim with the carrier. If shortage is concealed and not noticed until a later date, notify All World Scientific Customer Service Department for assistance.

Warranty Warranty applies to equipment only for the warranty period stated in literature furnished with the products and applies only to the original purchases. Questions regarding repairs to products with expired warranties should be referred to our Customer Service Dept. All warranted items are for repair or replacement, depending on the manufacturer's policy, credit will not be issued. If a problem develops with any materials purchased from All World Scientific please write, call or fax All World Scientific Customer Service Department for assistance in resolving the situation promptly.

Returns In order to obtain credit for returned materials or for a Warranty Repair, **a Returned Goods Authorization (RGA) number must be issued by the Customer Service Department. Returns must be made within 30 days of receipt of RGA#.**

Returns are subject to a restocking fee and/or disposal charge, though application of these charges will depend on the particular circumstances of the situation. Returns which will not be accepted include: Containers which have been opened, products which have exceeded expiration dates, or products requiring refrigeration which have deteriorated for lack of refrigeration.

Availability We endeavor to keep most of the items listed in this catalog in stock for immediate shipment from our warehouse in Lynnwood. However, we may experience occasional delays from manufacturers.

NOTICE: The chemicals and solutions listed in this catalog are offered for laboratory or manufacturing use only.

We believe that the information and data included in this catalog are true and accurate at the time of publication. Any recommendations or suggestions are made without warranty or guarantee of any kind. Consequently, we can assume no responsibility connected with the use of any of the products or the information included herein. All World Scientific shall not be responsible for any incidental or consequential damages whatsoever.

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Additional Comments / Instructions:

FAX TO: 1-425-776-1530



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Chemicals & Solutions for Water/Waste Water Labs

AWS NO.	DESCRIPTION	SIZE	PRICE
050-1221	Acetate Buffer Solution, APHA for Chlorine	500ml	15.00
050-1235		1L	25.00
050-1214		4L	60.00
050-1347	Acetic Acid, 50% (v/v) [Ⓜ]	500ml	11.11
050-1354		1L	20.00
250-0014	Acetic Acid, Glacial ACS [Ⓜ]	500ml	15.60
250-0012		2.5L	26.50
250-1006	Acetone, ACS [Ⓜ]	500ml	12.70
250-1002		4L	38.35
051-0776	Acid-Zirconyl-SPADNS Rgt., APHA for Fluoride [Ⓜ]	500ml	16.00
051-0783		1L	27.00
050-1515	Alkaline-Iodide Azide Rgt. (APHA for DO) [Ⓜ]	500ml	25.00
050-1522		1L	42.00
050-1550	Aluminum Chloride, 6N, APHA for Sulfide [Ⓜ]	120ml	16.00
050-1543		500ml	50.00
050-1634	Ammonia Standard 10ppm	500ml	15.00
050-1648	Ammonia Standard 100ppm	500ml	20.00
050-1620	Ammonia Standard 1,000ppm	500ml	20.00
050-1200	Ammonium Acetate Buffer Sol, APHA for Iron	1L	25.00
250-1006	Ammonium Chloride, ACS	500g	19.85
050-1676	Ammonium Chloride, 1.15g/L, APHA for BOD	120ml	6.00
050-1669		500ml	9.00
050-1725	Ammonium Hydroxide 50% (v/v) Aqueous (1+1) [Ⓜ]	500ml	15.00
250-1248	Ammonium Hydroxide, ACS [Ⓜ]	500ml	13.65
250-0090		2.5L	21.50
050-1753	Ammonium Molybdate, 4% APHA for Phosphorus [Ⓜ]	500ml	22.00
250-1240	Ammonium Molybdate, ACS Tetrahydrate	500g	75.00
250-1245	Ammonium Persulfate, ACS [Ⓜ]	500g	21.65
050-1795	Ammonium Sulfate, 2.0M, ISA for Nitrate ISE	500ml	32.00
050-1802	Ammonium Thiocyanate, 0.1N	1L	15.00
050-1893	Barium Chloride, 10% (w/v), APHA, EPA for Sulfate	500ml	9.00
050-1900		1L	16.00
050-1886		4L	42.00
050-2054	Borate Buffer Solution, APHA, EPA for Ammonia	500ml	11.00
050-2061		1L	20.00
050-2103	Boric Acid, 4% w/ Bromocresol, Methy Red Indicator	4L	29.00
050-2110		10L	48.00
250-1004	Boric Acid, ACS, crystals	500g	22.10
050-2278	Bromocresol Green 0.04%	500ml	8.00
050-2285		1L	13.00
050-2278	Bromocresol Green, 0.1%	500ml	12.00
050-2282	Bromocresol Green-Methy Red, APHA for Alkalinity [Ⓜ]	500ml	15.00
050-2284		1L	28.00
050-2313	Bromocresol Purple, 0.04%	500ml	8.00
050-2327	Bromophenol Blue, 0.04%	500ml	8.00
050-2362	Bromothymol Blue, 0.04%	500ml	8.00

AWS NO.	DESCRIPTION	SIZE	PRICE
050-2607	Buffer Solution, pH 2.00+/-0.01	500ml	9.50
050-2614		1L	14.00
050-2705	Buffer Solution, pH 4.00+/-0.01, Color Coded Red	500ml	8.00
050-2719		1L	12.00
050-2698		4L	25.00
050-2726		20L	59.00
050-2747	Buffer Solution, pH 5.00+/-0.01	500ml	9.50
050-2754		1L	14.00
050-2768	Buffer Solution, pH 6.00+/-0.01	500ml	9.50
050-2775		1L	14.00
050-2866	Buffer Solution, pH 7.00+/-0.01 Color Coded Yellow	500ml	8.00
050-2880		1L	12.00
050-2859		4L	25.00
050-2887		20L	59.00
050-2908	Buffer Solution, pH 8.00+/-0.01	500ml	9.50
050-2915		1L	14.00
050-2929	Buffer Solution, pH 9.00+/-0.01	500ml	9.50
050-2936		1L	14.00
050-2537	Buffer Solution, pH 10.00+/-0.01 Color Coded Blue	500ml	8.00
050-2551		1L	12.00
050-2530		4L	25.00
050-2558		20L	59.00
050-2572	Buffer Solution, pH 11.00+/-0.01	500ml	10.00
050-2579	Buffer Solution, pH 12.00+/-0.01	500ml	11.00
050-2586	Buffer Solution, pH 12.45+/-0.01	500ml	11.00
250-1321	Cadmium Metal, Powder, Rgt [Ⓜ]	125g	21.45
250-1345	Calcium Carbonate, ACS Powder, Primary Std.	125g	23.00
250-1348		500g	49.50
050-3041	Calcium Chloride, 2.75%, APHA for BOD	500ml	9.00
050-3048		1L	15.00
250-1392	Calcium Chloride, ACS, Dihydrate	500g	18.65
250-1399	Calcium Chloride, ACS, Anhydrous, Powder	500g	36.10
050-3139	Ceric Sulfate, 0.1N [Ⓜ]	1L	23.00
050-3132		4L	68.00
050-3188	Chloride Standard, 500ppm	500ml	13.00
050-3195	Chloride Standard, 1000ppm	500ml	20.00
250-1411	Chloroform, ACS [Ⓜ]	500ml	18.65
250-1415		4L	51.95
050-3223	Chlorophenol Red In. 0.04%	500ml	8.00
250-1421	Chromium Trioxide, ACS, Crystal [Ⓜ]	125g	29.60
050-3356	Color Std., 500 color units	500ml	66.00
050-3412	Conductivity Standard, 10 micromhos/cm	500ml	11.00
050-3419		1L	17.00
050-3454	Conductivity Standard, 100 micromhos/cm	500ml	11.00
050-3419		1L	17.00
050-3580	Conductivity Standard, 500 micromhos/cm	500ml	11.00
050-3587		1L	17.00
050-3391	Conductivity Standard, 1,000 micromhos/cm	500ml	11.00
050-3398		1L	17.00

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Chemicals & Solutions for Water/Waste Water Labs

AWS NO.	DESCRIPTION	SIZE	PRICE
050-3475	Conductivity Standard, 2,000 micromhos/cm	500ml	11.00
050-3482		1L	17.00
050-3538	Conductivity Standard, 5,000 micromhos/cm	500ml	11.00
050-3545		1L	17.00
050-3433	Conductivity Standard, 10,000 micromhos/cm	500ml	11.00
050-3440		1L	17.00
050-3444	Copper Sulfate, 2% (w/v), APHA for Nitrogen	500ml	8.00
050-3448		1L	12.00
050-3657	Copper Sulfate-Sulfamic Inh., APHA for DO	1L	22.00
250-1438	Cupric Sulfate, ACS	125g	13.50
050-3659	Diphenylcarbazide, 0.5% in Acetone, APHA for Cr	500ml	55.00
050-3895	DPD Indicator Solution, APHA for Residual Chlorine	500ml	26.00
050-3902		1L	43.00
250-1453	Drierite Regular 8 mesh, Non-indicating	500g	16.95
250-1455	Drierite, Regular 8 mesh, Indicating	500g	26.00
250-1458		2.5k	108.20
250-1468	EDTA, ACS, Disodium Salt	125g	20.35
250-1471		500g	41.25
050-3944	EDTA Titrant, 0.01M	1L	9.00
050-3930		4L	22.00
050-3933	EDTA Titrant, 0.02M	1L	10.00
050-3936		4L	28.00
050-3939	EDTA Titrant, 0.025M	1L	10.00
050-3941		4L	28.00
050-3986	EDTA Titrant, 0.0575M	1L	15.00
050-3979		4L	36.00
050-4007	EDTA Titrant, 0.100M	1L	16.00
050-4000		4L	45.00
050-4091	Electrode Cleaning Solution	500ml	22.00
050-4098	Electrode Storage Solution	500ml	14.00
250-1475	Ethyl Acetate, ACS [Ⓜ]	500ml	12.90
250-1451		4L	24.00
250-1459	Ethyl Alcohol, SCS, Denatured [Ⓜ]	500ml	12.20
250-1016		4L	34.00
050-4238	Fehling Solution A [Ⓜ]	1L	13.00
050-4210	Fehling Solution B [Ⓜ]	1L	19.00
050-4287	Ferric Chloride, 0.025%, APHA for BOD	500ml	8.00
050-4294		1L	12.00
250-1526	Ferric Chloride, ACS, Hexahydrate [Ⓜ]	125g	13.45
250-1531		500g	34.50
050-4364	Ferriin Indicator, 0.025M	500ml	50.00
050-4385	Ferrous Ammonium Sulfate, 0.100N	1L	20.00
050-4392	Ferrous Ammonium Sulfate, 0.250N	1L	22.00
050-4399	Ferrous Ammonium Sulfate, 0.00282N	1L	19.00
250-1555	Ferrous Ammonium Sulfate, ACS, Crystal, Hexahydrate	500g	56.20
250-1561	Ferrous Sulfate, ACS, Crystal, Heptahydrate	500g	23.95

AWS NO.	DESCRIPTION	SIZE	PRICE
050-4406	Fluoride Standard, 10ppm	500ml	13.00
050-4413	Fluoride Standard, 100ppm	500ml	14.00
050-4420	Fluoride Standard, 1,00ppm	500ml	20.00
250-1569	Formaldehyde, ACS [Ⓜ]	500ml	16.25
250-1572		4L	40.60
250-1601	Formic Acid, 88%, ACS [Ⓜ]	473ml	26.15
050-4616	Glucose-Glutamic Acid Solution. BOD std.	500ml	40.00
050-4623	Check Sol.	1L	60.00
250-1612	Glycerin, ACS, Anhydrous	500ml	25.10
050-4784	Hydrochloric Acid, 0.01N	1L	10.00
050-4777		4L	25.00
050-4798	Hydrochloric Acid, 0.02N [Ⓜ]	1L	9.00
050-4777		4L	22.00
050-4819	Hydrochloric Acid, 0.05N [Ⓜ]	1L	9.00
050-4812		4L	22.00
050-4840	Hydrochloric Acid, 0.100N [Ⓜ]	1L	9.00
050-4826		4L	22.00
050-4847		20L	59.00
050-4903	Hydrochloric Acid, 0.200N [Ⓜ]	1L	9.00
050-4896		4L	22.00
050-4931	Hydrochloric Acid, 0.250N [Ⓜ]	4L	22.00
050-4980	Hydrochloric Acid, 0.500N [Ⓜ]	1L	10.00
050-4966		4L	24.00
050-4987		20L	59.00
050-5036	Hydrochloric Acid, 1.00N [Ⓜ]	1L	10.00
050-5022		4L [Ⓐ]	24.00
050-5043		20L [Ⓐ]	59.00
050-5085	Hydrochloric Acid, 2.00N [Ⓜ]	1L	10.00
050-5141	Hydrochloric Acid, 5.00N [Ⓜ]	1L	11.00
050-5134		4L [Ⓐ]	32.00
050-5085	Hydrochloric Acid, 2.00N [Ⓜ]	1L	10.00
050-5176	Hydrochloric Acid, 6.00N [Ⓜ]	1L	14.00
050-5057	Hydrochloric Acid, 10% (v/v)	500ml	6.00
050-5064		1L	9.00
050-5050		4L [Ⓐ]	20.00
050-5099	Hydrochloric Acid, 20% (v/v)	500ml	8.00
050-5106		1L	12.00
050-5092		4L [Ⓐ]	27.00
250-1619	Hydrochloric Acid, ACS [Ⓜ]	500ml	15.60
250-1282		2.5L	25.65
050-5211	Hydrogen Peroxide, 3%	1L	62.37
175-2184	Hydrogen Peroxide, 30% [Ⓜ]	500ml	40.12
050-5281	Iodine, 0.0250N, APHA for Sulfide	1L	11.00
050-5288	Iodine, 0.0282N, APHA for Chlorine	1L	11.00
050-5309	Iodine, 0.100N	1L	15.00
050-5302		4L	45.00
050-5414	Iron Standard, 200ppm, APHA for Iron	500ml	12.00
250-3001	Isopropyl Alcohol, ACS [Ⓜ] [Ⓐ]	500ml	8.50
250-3015		4L	28.34

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Chemicals & Solutions for Water/Waste Water Labs

AWS NO.	DESCRIPTION	SIZE	PRICE
050-5554	Light's Solution, APHA for ORP ®	500ml	30.00
250-3022	Magnesium Chloride, ACS, Crystal, Hexahydrate	500g	25.15
050-5701	Magnesium Sulfate, 2.25%, APHA for BOD	500ml 1L	8.00 13.00
250-3031	Magnesium Sulfate, ACS, Heptahydrate, Crystal	500g	25.85
250-3039	Manganese Sulfate, ACS, Monohydrate	500g	27.00
050-5750	Manganous Sulfate Solution, APHA for DO	500ml	15.00
050-5757		1L	26.00
250-3054	Mannitol, ACS	500g	41.35
250-3073	Mercuric Chloride, ACS	125g	44.45
250-3078	Mercuric Nitrate, ACS	25g	24.70
250-3083		125g	42.34
250-3095	Mercuric Sulfate, ACS	125g	53.00
250-3102	Methyl Alcohol, ACS, Anhydrous ®	1L	12.65
250-4018		4L	32.00
050-6051	Methylene Blue, 1%, (w/v)	120ml	6.50
050-5925	Methyl Orange, 0.1% (w/v)	120ml	5.00
050-5911		500ml	8.00
050-5974	Methyl Red, 0.1% (w/v)	120ml	6.00
050-5967		500ml	21.00
050-5988	Methyl Red, 0.1% (w/v)	120ml	7.00
050-5981		500ml	15.00
050-5983	Mixed Indicator Sol., Methyl Red-	120ml	7.00
050-5985	Methylene Blue	500ml	15.00
050-6128	Murexide Indicator, 0.2g Ammonium Purpurate in 100g of NaCl	100g	17.00
050-6135	NED Dihydrochloride, APHA for Nitrite Nitrogen	500ml	16.00
050-6149	Nessler Reagent, AOA for Ammonia Nitrogen ®	500ml	24.00
050-6247	Nitrate Standard, 1000ppm	500ml	20.00
050-6282	Nitric Acid, 50% (v/v) ® ①	500ml	15.00
050-6289		1L	24.00
050-6261	Nitric Acid, 0.100N	1L	11.00
050-6268	Nitric Acid, 1.00N ® ①	1L	12.00
250-4026	Nitric Acid, ACS ® ①	500ml	25.00
250-4028		2.5L	34.75
250-1438	Pentahydrate, Lg, Crystal ®	500g	25.95
050-6562	1,10-Phenanthroline, 0.1% (w/v)	120ml	7.00
050-6555		500ml	15.00
050-6660	Phenolphthalein, 1% (w/v) In 95% alcohol ®	500ml	10.00
050-6667		1L	14.00
050-6653		4L	36.00
050-6583	Phenol Red, 0.04% (w/v)	500ml	9.00
050-6758	Phosphate Buffer Sol., pH=7.2, APHA for BOD	500ml	9.00
050-6765		1L	15.00
050-6737	Phosphate Buffer Sol., APHA for Chlorine	500ml	16.00
050-6744		1L	24.00

AWS NO.	DESCRIPTION	SIZE	PRICE
050-6723	Phosphate Buffer Sol., DPD Method	500ml	11.00
050-6730		1L	19.00
050-6779	Phosphate Standard, 50ppm	500ml	11.00
050-6783	Phosphate Standard, 500ppm	500ml	20.00
050-6786	Phosphate Standard, 1,000ppm	500ml	20.00
250-4059	Phosphoric Acid, ACS ®	500ml	21.50
050-6919	Potassium Antimonyl Tartrate Solution	500ml	16.00
050-6926		1L	30.00
050-7017	Potassium Bi-Iodate, 0.0250N	1L	15.00
050-7031	Potassium Bi-Iodate, 0.100N	1L	18.00
250-4093	Potassium Biphosphate, ACS, Crystal, Primary	125g	28.00
250-2015		2.5L	34.75
050-2201	Potassium Bromide/Bromate Sol., 0.100N	1L	23.00
050-7087	Potassium Chloride, 3M	500ml	12.00
050-7115	Potassium Chloride, 4M	500ml	9.00
050-7101	Potassium Chloride, 4M, with AgCl	500ml	12.00
250-4075	Potassium Chloride, ACS, Crystal	125g	11.00
250-4079		500g	15.00
050-7150	Potassium Chromate Solution, 5% (w/v)	500ml	10.00
050-7157		1L	18.00
050-7178	Potassium Dichromate, 0.0250N	1L	12.00
050-7199	Potassium Dichromate, 0.100N	1L	12.00
050-7213	Potassium Dichromate, 0.250N	1L	17.00
250-4085	Potassium Dichromate, ACS, Crystal, Primary ®	125g	25.95
050-7220	Potassium Fluoride, 40% ®	500ml	25.00
050-7297	Potassium Hydroxide, 1.00N ®	1L	10.00
250-5000	Potassium Hydroxide, ACS, Pellets ®	500g	19.25
050-7381	Potassium Iodate, 0.00564N, APHA for Chlorine	1L	13.00
050-7416	Potassium Iodate, 0.100N	1L	16.00
050-7423	Potassium Iodate, 0.5%	120ml	6.00
050-7479	Potassium Iodate, 5% (w/v)	500ml	9.00
050-7437	Potassium Iodate, 10% (w/v)	500ml	12.00
050-7444		1L	20.00
250-5010	Potassium Iodate, ACS ®	25g	24.20
250-5013		125g	36.15
250-5025	Potassium Iodide, ACS, Crystal, Flowing	125g	23.30
250-5028		500g	56.40
250-5034	Potassium Oxalate, ACS, Crystals, Monohydrate	125g	16.25
250-5038		500g	39.55
250-5042	Potassium Periodate, ACS ®	25g	19.80
050-7448	Potassium Permanganate, 0.0500N	1L	12.00
050-7542	Potassium Permanganate, 0.100N	1L	12.00
050-7528		4L	38.00
050-7556	Potassium Permanganate, 0.200N	1L	13.00
050-7570	Potassium Permanganate, 1.00N	1L	18.00

① No Air ® Hazard ① Truck Only ® Written Orders Only



Chemicals & Solutions for Water/Waste Water Labs

AWS NO.	DESCRIPTION	SIZE	PRICE
250-4045	Potassium Permanganate, ACS, Crystals [®]	125g	13.20
250-4049		500g	27.75
250-4058	Potassium Persulfate, ACS, Crystal [®]	500g	25.45
250-4063	Potassium Phosphate, ACS, Dibasic, Anhydrous	125g	13.00
250-4065		500g	39.85
250-4073	Potassium Phosphate, ACS, Monobasic, Crystal	500g	57.35
250-4081	Potassium Sulfate, ACS, Crystals [®]	500g	15.00
250-4089		2.5kg	63.15
050-7906	Silver Nitrate, 0.0141N, APHA for Chloride	1L	9.00
050-7899		4L	28.00
050-7927	Silver Nitrate, 0.0171N	1L	10.00
050-7920		4L	33.00
050-8025	Silver Nitrate, 0.100N	500ml	14.00
050-8039		1L	24.00
050-8018		4L	82.00
050-8130	Silver Nitrate, 0.500N	500ml	59.00
050-8137		1L	105.00
250-4092	Silver Nitrate, ACS [®]	125g	46.25
250-4095		500g	181.35
250-4132	Silver Sulfate, ACS	125g	96.15
050-8277	Sodium Arsenite, 0.5%	500ml	8.00
250-4145	Sodium Azide, ACS [®] [Ⓢ]	100g	35.15
250-4163	Sodium Bicarbonate, ACS	500g	10.60
250-4169	Sodium Carbonate, ACS, Anhydrous, Granular	500g	24.95
250-4175	Sodium Chloride, ACS, Crystal	500g	11.25
250-4179		2.5kg	32.20
050-8942	Sodium Hydroxide, 20% (w/v) [®] [Ⓐ]	500ml	8.00
050-8949		1L	12.00
050-8935		4L	27.00
050-8970	Sodium Hydroxide, 40% (w/v) [®] [Ⓐ]	4L	21.00
050-8977		20L	65.00
050-8249	Sodium Hydroxide, 50% (w/v) [®] [Ⓐ]	500ml	15.00
050-8242		4L	50.00
050-8263		20L	200.00
050-8550	Sodium Hydroxide, 0.0100N (w/v)	1L	9.00
050-8543		4L	22.00
050-8571	Sodium Hydroxide, 0.0200N	1L	9.00
050-8564		4L	22.00
050-8599	Sodium Hydroxide, 0.0500N	500ml	6.00
050-8592		1L	9.00
		4L	22.00
		20L	55.00
050-8704	Sodium Hydroxide, 0.200N [®]	1L	9.00
050-8697		4L	22.00
050-8774	Sodium Hydroxide, 0.400N [®]	1L	9.00
050-8767		4L	22.00
050-8802	Sodium Hydroxide, 0.500N [®]	1L	9.00
050-8788		4L	22.00
050-8809		20L [Ⓐ]	59.00

AWS NO.	DESCRIPTION	SIZE	PRICE
050-8811	Sodium Hydroxide, 0.600N [®]	1L	10.00
050-8844	Sodium Hydroxide, 1.00N [®]	1L	9.00
050-8830		4L	22.00
050-8851		20L [Ⓐ]	55.00
050-8914	Sodium Hydroxide, 2.00N [®]	1L	10.00
050-8928	Sodium Hydroxide, 2.50N [®]	1L	11.00
050-8931	Sodium Hydroxide, 4.00N [®]	1L	12.00
050-9005	Sodium Hydroxide, 5.00N [®]	1L	12.00
050-8998		4L	29.00
050-8900	Sodium Hydroxide, 10.00N [®]	1L	14.00
050-8893		4L	31.00
250-5001	Sodium Hydroxide, ACS, Pellets [®]	500g	15.25
250-5005		2.5kg	40.95
050-8207	Sodium Hydroxide-Thiosulfate, 50%-2.5% (w/v) APHA f/Organic Nitrogen [®] [Ⓐ]	4L	23.00
050-8221		20L	78.00
250-5011	Sodium Iodide, ACS	100g	24.30
250-5018	Sodium Metabisulfite, ACS, Anhydrous	500g	14.75
250-1296	Sodium Nitrate, ACS [®]	500g	26.25
250-5024	Sodium Nitrite, ACS [®]	125g	11.20
250-5035		500g	29.45
250-5046	Sodium Periodate, ACS [®]	25g	31.45
250-5055	Sodium Sulfate, ACS, Anhydrous, Granular	500g	14.95
250-5059		2.5kg	44.65
050-9215	Sodium Thiosulfate, 0.010N	1L	10.00
050-9229	Sodium Thiosulfate, 0.0250N	1L	9.00
050-9222		4L	30.00
050-9243	Sodium Thiosulfate, 0.0375N	1L	9.00
050-9222		4L	30.00
050-9278	Sodium Thiosulfate, 0.100N	1L	9.00
050-9264		4L	27.00
050-9285		20L	55.00
050-9288	Sodium Thiosulfate, 0.250N	1L	11.00
050-9320	Sodium Thiosulfate, 1.00N	500mg	10.00
050-9327		1L	15.00
050-9313		4L	39.00
250-5067	Sodium Thiosulfate, ACS, Pentahydrate, Crystal	500g	14.95
250-5069		2.5kg	49.85
050-9397	Starch Indicator Sol, 0.5%	500mg	7.00
050-9404		1L	10.00
050-9390		4L	25.00
050-9453	Starch Indicator Sol, 20% (w/v)	500ml	22.00
250-5077	Starch, ACS, Soluble, Powder	125g	12.95
250-5079		500g	33.15
250-5083	Sulfamic Acid, ACS [®]	100g	11.15
250-5089		500g	25.20
250-5095	Sulfanilamide [®] [Ⓢ]	100g	12.50
050-9495	Sulfanilamide Reagent [®]	500ml	16.00
050-9901	Sulfuric Acid, 5% (v/v) [®]	500ml	9.00
050-9817	Sulfuric Acid, 10% (v/v) [®]	500ml	9.00

[Ⓐ] No Air [®] Hazard [Ⓢ] Truck Only [Ⓢ] Written Orders Only



Chemicals & Solutions for Water/Waste Water Labs

AWS NO.	DESCRIPTION	SIZE	PRICE
050-9852	Sulfuric Acid, 20% (v/v) [Ⓜ]	500ml	9.00
050-9859		1L	15.00
050-9866	Sulfuric Acid, 25% (v/v) [Ⓜ]	500ml	9.00
050-9873		1L	15.00
050-9929	Sulfuric Acid, 50% (v/v) [Ⓜ]	500ml	12.00
050-9936		1L	20.00
050-9922		4L [Ⓐ]	55.00
050-9925	Sulfuric Acid, 0.0100N	1L	10.00
050-9621	Sulfuric Acid, 0.0200N	1L	9.00
050-9607		4L	22.00
050-9628		20L	59.00
050-9642	Sulfuric Acid, 0.0400N	1L	9.00
050-9635		4L	22.00
050-9677	Sulfuric Acid, 0.100N [Ⓜ]	1L	9.00
050-9663		4L [Ⓐ]	22.00
050-9684		20L [Ⓐ]	59.00
050-9712	Sulfuric Acid, 0.200N [Ⓜ]	1L	9.00
050-9705		4L [Ⓐ]	22.00
050-9768	Sulfuric Acid, 0.500N [Ⓜ]	1L	9.00
050-9761		4L [Ⓐ]	22.00
050-9775		20L [Ⓐ]	59.00
050-9803	Sulfuric Acid, 1.00N [Ⓜ]	1L	9.00
050-9789		4L [Ⓐ]	22.00
050-9810		20L [Ⓐ]	59.00
050-9831	Sulfuric Acid, 2.00N	1L	10.00
050-9887	Sulfuric Acid, 4.00N [Ⓜ]	1L	12.00
050-9880		4L [Ⓐ]	29.00
050-9894		20L [Ⓐ]	85.00

AWS NO.	DESCRIPTION	SIZE	PRICE
050-9908	Sulfuric Acid, 5.00N [Ⓜ]	500ml	8.00
050-9915		1L	14.00
050-9950	Sulfuric Acid, 6.00N [Ⓜ]	500ml	8.00
050-9957		1L	14.00
250-2313	Sulfuric Acid, ACS [Ⓜ]	500ml	16.35
250-2315		2.5L	29.85
051-0188	Thioacetamide Sol, 0.25%, APHA for Chlorine	120ml	6.00
051-0181		500ml	15.00
051-0230	Thymol Blue, 0.04% (w/v)	120ml	5.00
051-0223		500ml	9.00
051-0251	Thymolphthalein, 0.05% w/v [Ⓜ]	500ml	12.00
051-0342	TISAB, APHA for Fluoride	1L	30.00
051-0328		4L	55.00
050-0524	Water Hardness Buffer, APHA for Water hardness [Ⓜ]	500ml	10.00
050-0531		1L	16.00
050-1517		4L	45.00
051-0538	Water Hardness Indicator, 1% (w/v) APHA	500ml	15.00
051-0678	Zinc Acetate, 2N, APHA for Sulfide	120ml	7.00
051-0671		500ml	18.00
051-0755	Zinc Sulfate, 10%	500ml	13.00
250-5105	Zinc Sulfate, ACS, Heptahydrate, Crystal	125g	8.35
250-5108		500g	18.55
051-0776	Zirconyl SPADNS Rgt., APHA for Fluoride [Ⓜ]	500ml	16.00
051-0783		1L	27.00
051-0790	ZoBell's Solution, APHA for ORP Standard	500ml	26.00

[Ⓐ] No Air [Ⓜ] Hazard [Ⓣ] Truck Only [Ⓦ] Written Orders Only



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Aluminum Foil—Alcan

AWS NO.	SUP. NO.	SIZE	DESCRIPTION	PACK PRICE
180-5905	61644	18" x 500'	Medium	55.11
180-5913	11197	12" x 1000'	Standard	58.83

apparel, aprons, reusable general purpose

Translucent Plastic Aprons

Designed for peak efficiency and on the job cleanliness.
Resistant to laboratory reagents, acids, alkalies, oils and grease.

AWS. NO.	SUP. NO.	DESCRIPTION	SIZE	PRICE
690-4161	301	Translucent Plastic	27" x 36"	8.50
690-4175	303	Translucent Plastic	36" x 46"	9.75



Rubberized Aprons

Acid resisting sheeting, very flexible and lightweight.
Accepted as a standard lab apron for years.

AWS. NO.	SUP. NO.	DESCRIPTION	SIZE	PRICE
690-4091	201	Black	27" x 36"	12.25
690-4105	203	Black	36" x 46"	17.55



apparel, lab coats, general purpose

Lab Coats

AWS. NO.	SUP. NO.	DESCRIPTION	SIZE	PRICE
690-4182	119-32	Knee length, navy blue twill, preshrunk 100% cotton	32	41.30
690-4189	119-34	Knee length, navy blue twill, preshrunk 100% cotton	34	41.30
690-4196	119-36	Knee length, navy blue twill, preshrunk 100% cotton	36	41.30
690-4203	119-38	Knee length, navy blue twill, preshrunk 100% cotton	38	41.30
690-4210	119-40	Knee length, navy blue twill, preshrunk 100% cotton	40	41.30
690-4217	119-42	Knee length, navy blue twill, preshrunk 100% cotton	42	41.30
690-4224	119-44	Knee length, navy blue twill, preshrunk 100% cotton	44	41.30
690-4581	124-32	Knee length, wht poplin, 65% dacron/35% cotton, wash n dry	32	40.10
690-4588	124-34	Knee length, wht poplin, 65% dacron/35% cotton, wash n dry	34	40.10
690-4595	124-36	Knee length, wht poplin, 65% dacron/35% cotton, wash n dry	36	40.10
690-4602	124-38	Knee length, wht poplin, 65% dacron/35% cotton, wash n dry	38	40.10
690-4609	124-40	Knee length, wht poplin, 65% dacron/35% cotton, wash n dry	40	40.10
690-4616	124-42	Knee length, wht poplin, 65% dacron/35% cotton, wash n dry	42	40.10
690-4623	124-44	Knee length, wht poplin, 65% dacron/35% cotton, wash n dry	44	40.10



aspirators

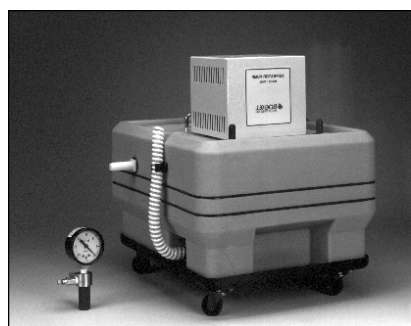
Vacuum Aspirator Pumps, High Density Polyethylene—Bel-Art

The aspirator pump operates on water pressures above 11 psi (75842 N/m²). The integral check valve resists corrosive filtrates and fumes. The quick-disconnect hose fitting accepts 1/4" to 3/8" (6.4 to 9.5 mm) I.D. tubing. Male thread faucet connection is 3/8" I.P. Maximum attainable vacuum is 27.4" Hg (696mm) with a flow of 1.5 gallons (6 liters) per minute. 12 per case.

For Low Water Pressure Same as above, but modified to provide a 17" Hg vacuum at water pressures as low as 8 psi (55158 N/m²). 12 per case.

AWS NO	SUP. NO.	DESCRIPTION	COLOR	PRICE EACH
031-3913	F32947-0000	Aspirator Pump	White	9.25
030-4737	F32947-0001	Aspirator Pump for Low Water Pressure	Green	14.15

Boekel Aspirator Pump



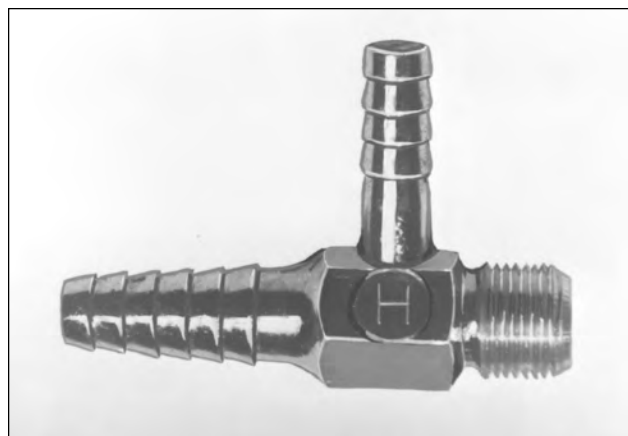
- Safely handles corrosive and volatile vapors
- Two ports
- Pulseless vacuum
- Virtually eliminates water waste

SPECIFICATIONS:

Dimensions:	15" x 12" x 13 1/2"
Net Weight:	15.4 lbs
Electrical:	110 W @ 115 VAC
	190 W @ 230 VAC

AWS NO	SUP. NO.	DESCRIPTION	PRICE
221-2105	177000	Aspirator Pump 115VAC	865.00
222-5113	177010	Pump Dolly	139.00
223-0025	177020	Vacuum Regulator Gauge	161.00

Aspirator Filter Pumps



- All units meet Federal specifications GC-P-821a.
- Excellent performance for vacuum filtrations under both high and low water pressure. A ball-type, positive-action valve in the suction tube prevents backflow if pressure is reduced.
- Nickel-plated, designed for greater air entrainment capacity.
- Nickel-plated, with serrated tail and side arm. Also available in Stainless steel, resistant to corrosive liquids/vapors.
- Check valve in side tube prevents water backflow. For 10-50 psi.
- Die-cast white metal body with integrally-cast side arm, nickel-plated.
- Brass nozzle; cast aluminum baffle tube. Also Available in Die-cast white metal body with integrally-cast side arm, nickel-plated.

AWS NO	SUP. NO.	TYPE	WATER INLET	LENGTH	PRICE EACH
060-5897	H-12020	(A) Chapman, Swirling-type	3/8" NPT, tapered	5 3/8", 137 mm	17.15



25X Portable Electric Automatic Steroclave

A complete self-contained Sterilizer with an immersion heating element, automatic thermostatic control, automatic release valve, and pilot light. First in the field to develop an immersion type Pressure Sterilizer for all physicians' offices, hospitals, and laboratories. Connects to any outlet and ready for use instantly. Insures complete, efficient sterilization.

- Calrod Immersion Heating Element 1050 Watt, 120 Volt AC (Also available in 240 Volt)
- Fenwal Thermostatic Control
- Heavy Cast Aluminum Cover and Bottom Construction
- Aluminum Alloy Seamless Inset Container
- Cast Aluminum Rack
- Flexible Metal Exhaust Tube
- Dial Gauge and Valve Control
- Metal-to-Metal Seal (No Rubber Gaskets)
- Large Sterilizing Capacity (831 Cubic Inches)
- Complete and Effective Sterilization at the Lowest Possible Cost
- 3 Wire Grounded Cord and Plug for Safety
- Amazingly Low in Price

AWS NO	SUP. NO.	DESCRIPTION	OVERALL HT.	BOTTOM HT.	INSIDE DIA.	PRICE
224-3226	25X	120 V Electric Sterilizer	16 ³ / ₄ "	12 ¹ / ₄ "	12 ⁵ / ₈ "	648.75

SterileMax Sterilizer with Printer —Barnstead/Thermolyne

SPECIFICATIONS:

Overall Dimensions: 23"W x 24.5"D x 17"h (58.4 x 62.2 x 43.1 cm)
Chamber Size: 12" Diameter, 18" Depth (30.4 x 45.7 cm)
Chamber Capacity: 1.2 Cubic Feet (34 L)
Heater Wattage: 1500W
Shipping Weight: 134 lbs. (60.7 kg)
Operational Weight: 85 lbs. (38.5 kg)
Fixed Cycle Parameters: Liquids: 15 min @ 1210C
 Unwrapped: 3 min. @ 1350C
 Wrapped: 10min @ 1350C
 Packs: 30 min. @ 1210C
Optional Cycle Parameters: 1-99 min @ 1000C - 1360C
Accessories Included: Rack, 1 Large Tray, 1 Small Tray



AWS NO	SUP. NO.	DESCRIPTION	VOLTS	AMPS	PRICE
270-5201	ST75935	SterileMax Sterilizer with printer	120	12.5	6600.00
270-5185	ST75925	SterileMax Sterilizer without a printer	120	12.5	5940.00

autoclave accessories

Clavies® BioHazard Autoclave Gloves—Bel-Art



Heat-resistant up to 450°F (232°C), these soft, pliable Clavies® gloves are excellent for handling hot objects out of the autoclave or oven, as well as for other heat protection in the lab, school, or industry. Can be machine washed and tumble dried.

AWS NO	SUP. NO.	DESCRIPTION	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
280-1321	H13201-0001	Clavies 11" (28cm) Gauntlet Length 18 1/2" (47cm) Overall Length	1 pair	12 pairs	28.38	309.60

Odo-Clave® Deodorant Pads—Bel-Art



Improve your laboratory's atmosphere, 4 choices of fragrance make your autoclave smell pleasant and fresh. Packed 10 pads per bag.

AWS NO	SUP. NO.	DESCRIPTION	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
180-6721	H13198-0000	Clove	100	1000	57.42	522.00
180-6753	H13198-0001	Cherry	100	1000	57.42	522.00
180-6745	H13198-0002	Pine	100	1000	57.42	522.00
180-6737	H13198-0003	Lemon	100	1000	57.42	522.00

Indicator Tape for Autoclaving—Time-Med

Stocked in 500" rolls on 1" cores in the three widths shown below. 2160" rolls of indicator Tape can also be custom imprinted in the widths shown below.

AWS NO	SUP. NO.	DESCRIPTION	QTY/PACK	EACH PRICE	PACK PRICE
181-5719	TSI-512	1/2"	24	4.25	48.48
181-5726	TSI-534	3/4"	24	6.55	75.84
181-5712	TSI-501	1"	24	7.75	89.52
181-5698	TSI-160	1" 3" Core	6	-	38.93
181-5705	TSI-3460	3/4" 3" Core	8	-	31.75



bags, biohazard (autoclavable)

Biohazard Disposal Bags

- Orange-Red, HMHD Polyethylene
- Made of high molecular weight, high-density polyethylene, these bags can be steam autoclaved at 250°F (121° C).
- Bench-Top

AWS NO.	SUP. NO.	SIZE (W X L)	SIZE	QTY/PACK	PACK PRICE
040-2553	F13164-1419	14 x 19"	36 x 48 cm	200	71.15
040-2561	F13164-1923	19 x 23"	48 x 58 cm	200	107.50
040-2569	F13164-2535	25 x 35"	64 x 89 cm	200	186.45
040-2577	F13164-3138	31 x 38"	79 x 97 cm	200	223.60



bags, sampling

Whirl Pak® Clear Bags—Nasco

Whirl-Pak® bags are sterilized, and the sizes are given in liquid measurements. They may be used for taking samples of liquids, semisolids, or solids. By whirling or tightly folding the tab over three times, the Whirl-Pak® bag becomes a leakproof container.

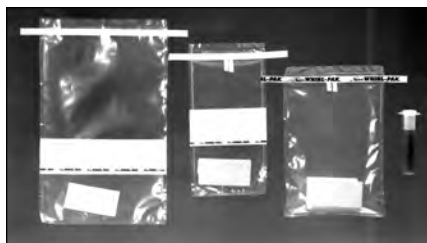
AWS NO.	SUP. NO.	CAPACITY	SIZE (W X L)	THICKNESS	QTY/PACK	PACK PRICE
181-3122	B00992WA	7 OZ./210 ML	3 3/4 X 7"	3.0 ML	500	40.30
181-0658	B01020WA	24 oz./720 ml	6 x 9	3.0 mil	500	64.45
180-9629	B00736WA	18 oz./540 ml	4 1/2 x 9	2.5 mil	500	49.25
181-0910	B00990WA	27 oz./810 ml	5 x 12	3.0 mil	500	67.00
181-2226	B01027WA	42oz. /1260 ml	6 x 15	3.0 mil	500	91.95

Flat Wire Bags—Nasco

AWS NO.	SUP. NO.	CAPACITY	SIZE (W X L)	THICKNESS	QTY/PACK	PACK PRICE
181-2079	B01338WA	4 oz./120 ml	3 x 7 1/4"	2.25 ml	500	34.85
180-9636	B01340WA	18 oz./540 ml	4 1/2 x 9"	2.5 ml	500	44.35
180-9657	B01341WA	18 oz./120 ml	3 x 7 1/4"	2.5 ml	500	52.80



bags, sampling CONTINUED

Write-On Whirl Pack® Bags—Nasco

All Whirl-Pak® bags are made of heavy, transparent polyethylene, and are ideal for all types of sampling. The Write-On bag has a white easy to write-on strip. Use the top of the white strip for a fill line to aid volume control.

AWS NO.	SUP. NO.	CAPACITY	SIZE (W X L)	THICKNESS	QTY/PACK	PACK PRICE
181-2086	B01062WA	4 oz/120 ml	3 x 7 1/4"	2.25 ml	500	37.40
180-9650	B01065WA	18 oz/540 ml	4 1/2 x 9"	2.5 ml	500	52.80
181-2975	B01195WA	55 oz/1650 ml	19 x 30"	4.0 ml	500	116.30
181-0672	B01297WA	24 oz/720 ml	6 x 9"	3.0 ml	500	92.30

Thio-Bag®

- EPA Approved for Potable Water Collection
- Thio-Bags® come to you in packs of 100 bags
- The 4 oz. Bag holds a 100ml sample
- The 18oz. holds a 300ml sample
- Shipping weight 1 lb

AWS NO.	SUP. NO.	DESCRIPTION	QTY/PACK	PACK PRICE	EACH PRICE
180-8796	B01040WA	4 oz/100 ml	100	15.75	-
181-1414	B01254WA	18 oz/300 ml	100	35.55	-
062-8386	B01109WA	Rack, 15 place, 4 oz	each	-	20.30
062-8708	B00772WA	Rack, 18 place, 18 oz	each	-	21.45



Explorer—Ohaus

The Explorer is the perfect choice for users who demand high performance in a dependable, easy to use workhorse balance.

- **Extra large LCD display with text prompts to easily guide you through the balance functions**
- **Parts Counting, Percent, Animal and Below-balance weighing**
- **Available in models with an internal calibration mass.**
- **RS232 output for GLP printing - print results, time/date, ID and calibration information**
- **Legal for trade versions available**
- **Selectable average and stability levels for use in difficult environments**



AWS NO.	310-1851	310-1765	310-1778
Sup. No. w/internal calibration	E10640	E11140	E12140
Capacity (g)	62	110	210
Readability (mg)	0.1	0.1	0.1
Weighing Modes	g, mg, oz, ozt, ct, dwt, tals (3), mommes, gn, ti, N, custom unit		
Platform Size (in/cm)	3.5/9 diameter		
Dimensions WxHxD (in/cm)	9 x 15.3 x 14/22.8 x 38.7 x 35.5		
Price	2295.00	2450.00	2895.00

Adventurer—Ohaus

- **Large LCD display and ergonomic leveling system for easy setup and operation**
- **RS232 output for connection to printers and computers**
- **17 different user selectable weighing units, including parts counting**
- **Below-balance weighing capability for simplified density determinations**
- **Integral security bracket**
- **Rugged design, built to last**



AWS NO.	310-1859	310-1779
Sup. No. #	AR0640	AR2140
Capacity (g)	65	210
Readability (mg)	0.1	0.1
Weighing Modes	g, kg, mg, ct, N, lb, oz, ozt, gn, dwt, mommes, mesghals, tals(3), ticals	
Pan Size (in/cm)	3.9/10	
Dimensions WxHxD (in/cm)	8.5 x 14.5 x 13.5 / 21/7 x 36.8 x 34.3	
Price	1550.00	1995.00

Analytical, HM Series—A & D



The new HM Series combines the advanced performance and features found in a top of the line analytical balance. Automatically selects ultra fine 0.01 mg resolution in the 0-42g range. Calibrates with an internal weight for the best result at any time. Conforms to GLP and LIMS balance requirements by outputting the ID number and weight used to calibrate the balance, to A&D's AD8121 printer or computer, which can print date, time, balance ID number and calibration weight. Standard accessories included: manual, AC adaptor, Display Protective Cover. **Physical Dimensions: 8.5 (W) x 16.9 (D) x 12.4 (H)**

AWS NO	SUP. NO.	CAP X READ	LINEARITY	REPEATABILITY (G) STD. DEV.	PRICE
310-1849	HM-202	210 g x 0.1 mg/42 x 0.1 mg	±0.0002/±0.00003g	0.0001/0.00002 g	3840.00
310-1761	HM-300	310 g x 0.1 mg	±0.0003 g	0.0002 g	3425.00
310-1769	HM-200	210 g x 0.1 mg	±0.0002 g	0.0001 g	3010.00
310-1777	HM-120	120 g x 0.1 mg	±0.0002 g	0.0001 g	2595.00

Toploading, Adventurer—Ohaus



- Large LCD display and ergonomic leveling system for easy setup and operation
- RS232 output for connection to printers and computers
- 17 different user selectable weighing units, including parts counting
- Below-balance weighing capability for simplified density determinations
- Integral security bracket
- Rugged design, built to last



AWS NO.	310-1995	310-2003	310-2059	310-2030	310-2032	310-2079
Sup. No.	AR1530	AR130	AR120	ARA520	ARC120	ARD110
Capacity (g)	150	310	510	1500	3100	4100
Readability (mg)	0.001	0.001	0.01	0.01	0.01	0.1
Weighing Modes	g, kg, mg, ct, N, lb, oz, oz t, gn, dwt, mommes, mesghals, tals (3), ticals					
Pan Size (in/cm)	3.9/10 dia.		7.1/18 dia.			
Dimensions WxHxD (in/cm)	8.5x8.3x13.5/21.7x21x34.3			8.5x4.3x13.5/21.7x11x34.3		
Price	825.00	1095.00	925.00	1215.00	1295.00	1050.00



Toploading, Navigator—Ohaus

- Large LCD display and ergonomic leveling system for easy setup and operation
- RS232 output for connection to printers and computers
- 17 different user selectable weighing units, including parts counting
- Below-balance weighing capability for simplified density determinations
- Integral security bracket
- Rugged design, built to last

AWS NO.	310-2000	310-2008	310-2051	310-2027	310-2084
Sup. No.	N12120	N14120	N18110	N1B110	N1D110
Capacity (g)	210	410	810	2100	4100
Readability (mg)	0.01	0.01	0.1	0.1	0.1
Weighing Modes	g, mg, kg, oz t, lb, gn, N, oz, tals (3), dwt, ct, ti, m, tola, custom				
Pan Size (in/cm)	4.75/12 dia.		5.5 x 6/14 x 15		
Dimensions WxHxD (in/cm)	10.5 x 7.25 x 2.25/27 x 18.4 x 5.7				
Price	750.00	820.00	650.00	750.00	820.00



Toploading, HF Series—A & D



The HF Series Multi-Functional balances are at home in any environment, industrial, laboratory or general usage. Constructed entirely of rugged aluminum alloy, they provide years of dependable use while retaining their attractive appearance. The HF Series is a multifunctional balance which allows the selection of 11 units of measure plus counting and percentage. Standard accessories included: manual, AC adaptor, Plastic Breeze Break (for HF-300, 400 and 320 only). Physical Dimensions: 7.6 (W) x 12.6 (D) x 3.3 (H)

AWS NO	SUP. NO.	CAP X READ (G)	LINEARITY	REPEATABILITY (G)	STD. DEV.	PRICE
310-2001	HF-300	310 x 0.001 g	±0.002 g		0.001 g	1605.00
310-2057	HF-400	410 x 0.001 g	±0.002 g		0.001 g	1760.00
310-2025	HF-3000	3100 x 0.01 g	±0.02 g		0.01 g	1605.00
310-2073	HF-4000	4100 x 0.01 g	±0.02 g		0.01 g	1920.00
310-2089	HF-6000	6100 x 0.1 g	±0.1 g		0.1 g	1350.00
310-2113	HF-8000	8100 x 0.1 g	±0.1 g		0.1 g	1560.00

VI-Series Toploading Balances—Acculab**AFFORDABLE 1MG AND 10MG BALANCES!**

Built for long life and ease of use, these high performance, quality balances are simple to operate and are packed with professional features.

AWS NO	SUP. NO.	CAPACITY (G)	READABILITY	PLATFORM SIZE	DIMENSIONS LXWXD	PRICE
310-2665	VI-1mg	120	0.001 g	8 cm dia.	115 x 133 x 235	480.00
310-2689	VI-3mg	300	0.001 g	8 cm dia.	115 x 133 x 235	600.00
310-2673	VI-200	200	0.01 g	10.8 cm dia.	70 x 133 x 235	330.00
310-2697	VI-350	350	0.01 g	10.8 cm dia. .	70 x 133 x 235	450.00

VI-Series High Capacity Toploading Balances—Acculab**PROFESSIONAL FEATURES, PERFORMANCE, AND QUALITY AT THE RIGHT PRICE!**

Choose from 0.1g and 1g Models. Stand out features include simple keypad calibration (mass included with V-400 and V-600) and full range tare for faster, more reliable results.

AWS NO	SUP. NO.	CAPACITY (G)	READABILITY	PLATFORM SIZE	DIMENSIONS LXWXD	PRICE
310-2713	VI-400	400	0.1 g	13 cm sq.	23 x 13 x 7 cm	180.00
310-2737	VI-600	600	0.1 g	13 cm sq.	23 x 13 x 7 cm	240.00
310-2657	VI-1200	1200	0.1 g	13 cm sq.	23 x 13 x 7 cm	300.00
310-2681	VI-2400	2400	0.1 g	13 cm sq.	23 x 13 x 7 cm	420.00
310-2721	VI-4800	4800	0.1 g	13 cm sq.	23 x 13 x 7 cm	510.00
310-2705	VI-4kg	4000	1 g	13 cm sq.	23 x 13 x 7 cm	180.00
310-2729	VI-6kg	6000	1 g	13 cm sq.	23 x 13 x 7 cm	240.00
310-2649	VI-10kg	10000	1 g	13 cm sq.	23 x 13 x 7 cm	300.00



MB-45—Ohaus

The MB-45 offers you all the power of a premium priced analyzer in a compact state-of-the-art design with a capacity of 45g and readability of 0.001g.

- **Fast halogen element, up to 40% faster than traditional infrared drying, provides uniform infrared heating up to 200°C**
- **Integrated database allows you to store/recall up to 50 drying procedures**
- **Powerful software design for ease of operation, data storage and user customization**
- **Display shows % moisture, % solids, weight, temperature, time, real time drying curve and more**
- **RS232 output for GLP printing - print results, time date and ID**
- **Simple to operate software walks you through the easy test setup parameters**
- **Choice of user selectable auto shut-off criteria for optimum performance and speed**

AWS No.: 310-1931

Capacity: 45g

Readability: 0.01\$/0.001g

**Repeatability (Std. Dev.): 0.05% (3g sample)
0.015% (10g sample)**

Timer: 1-120 min.

Heater Type: Halogen

Temp Range 50 to 200°C

Power: 120 or 240/VAC 50/60 Hz

Pan Size (mm/in): 90mm / 3.5in

Dimensions: (WxHxD) (in/cm): 7.6 x 6.2 x 13.8/19.3 x 15.8 35

Price: \$3125.00

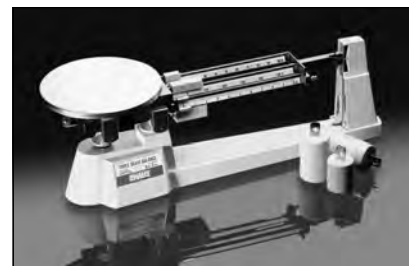


balances, triple beam

Triple Beam & Dial-O-Gram®—Ohaus

The 700/800 Series provides the convenience of a toploading balance with the durability and versatility to accommodate a range of lab applications. Some models have a tare beam to allow containers up to 225g to be balanced out, and a variety of weighing platforms are also available.

AWS NO	SUP. NO.	CAPACITY	READABILITY	DESCRIPTION	PRICE
310-6419	710-00	610 g	0.1 g	Triple Beam-SS Pan	143.00
310-6426	710-T0	610 g	0.1 g	Triple Beam-SS Pan, 225g Tare Beam	159.50
310-6440	750-S0	610 g	0.1 g	Triple Beam-SS Plate	145.20
310-6447	760-00	610 g	0.1 g	Triple Beam- 225g Tare Beam, SS Plate	148.50



balance accessories

Aluminum Foil Weighing Dishes



Inexpensive disposable aluminum foil dishes with crimped sides, flat smooth bottom, and a finger tab handle on the rim. Dish weights are approximately 1.0 grams (43mm), 1.4 grams (57mm), and 2.0 grams (70mm).

AWS NO	SUP. NO.	SIZE	QTY/PACK	PACK PRICE
180-5537	80064	43 mm, 2" dia., 1/2" deep	100	17.90
180-5545	80065	57 mm, 2 1/2" dia., 19/32" deep	100	20.60
180-5553	80065L	70 mm, 3" dia., 19/32" deep	100	28.20

Aluminum Moisture Pans



AWS NO	SUP. NO.	SIZE	QTY/PACK	PACK PRICE
180-6777	80062	4" dia., 5/16" deep	50	19.00
180-6761	80070	4 1/2" dia., x 7/16" deep	25	20.00

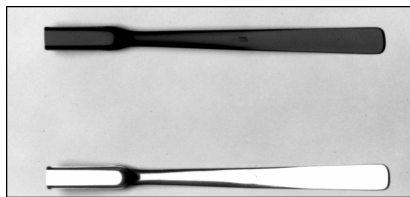
Weighing Boats



Weighing boats with contour sides provide convenient nonslip gripping surface, supplied in natural or blue.

AWS NO	SUP. NO.	SIZE	QTY/CASE	CASE PRICE
040-8529	80050	1 3/4" x 3/8"	500	35.75
040-8513	80055	3 5/16" x 3/4"	500	42.13
040-8497	80060	5 1/2" x n 7/8"	500	83.77

Balance Spoons



Supplied in plain polished stainless steel or with Teflon® coating, the balance spoon is 6.7" (17cm) long and has a square trough-type spoon end which holds about 1cc. 2 per package.

AWS NO	SUP. NO.	DESCRIPTION	QTY/PACK	PACK PRICE
060-1161F36706-0000		Stainless steel	2	14.96
060-1929F36707-0000		Steel with/Teflon® coating	2	30.20

Glassine Weighing Paper

AWS NO	SUP. NO.	DESCRIPTION	QTY/PACK	PACK PRICE
180-8361	80047	3" x 3"	500	13.63
180-8369	80048	4" x 4"	500	19.40
180-8377	80049	6" x 6"	500	25.89



Reagent Digger—Bel-Art

The minimum neck diameter through which it fits is 15/16" (24mm), overall length 9" (229mm).

AWS NO	SUP. NO.	DESCRIPTION	PRICE
061-7489	F36713-0000	Reagent Digger	12.60

barometers, digital & wall

Compact Digital Barometer—Control Company

Electronic digital barometers measure atmospheric pressure, graphically display the barometric trend, and report temperature and relative humidity.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
221-3145	4197	Compact Digital Barometer	109.45
221-4089	4195	Compact Digital Barometer	129.95

Dial Barometer—Sper Scientific

Large clear dual scale in hPa (hecto Pascal), and mbar (millibar), on a 4" dial which is easy to read from a distance. For classroom, lab or industrial use. Accuracy of ± 3 to 4hPa. Wall mounts. Weight: 2.6 oz.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
223-3863	736930	Dial Wall Barometer	25.00

Handheld Digital Barometer—Control Company

Barometer, altimeter, thermometer, stopwatch, and time-of-day clock all in the palm of your hand! Supplied complete with lanyard, batteries, and instructions.



AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
221-7905	4198	Handheld Digital Barometer	164.95

Aquabaths™—LAB-LINE

- Seamless stainless steel chamber
- Any Aquabath can become a boiling bath by using the Plexiglas gable cover-included
- UL approved
- Exclusive lifetime warranty
- Specially designed heaters on underside of working chambers for maximum heat transfer to bath
- Available in 12 models
- 2L to 22L capacity with analog or digital temperature set and display
- Temperature Control to $\pm 0.5^\circ\text{C}$ uniformity $\pm 0.2^\circ\text{C}$
- Temperature range ambient to 65°C , 100°C w/gable cover

AWS NO	SUP. NO.	DESCRIPTION	CHAMBER CAPACITY	CHAMBER DIM.	VOLTS	PRICE
224-2032	18022	Digital Aquabath	2.0 L	5 7/8 x 11 5/8 x 2 1/2	120	665.50
224-2060	18052	Digital Aquabath	3.1 L	5 7/8 x 5 3/8 x 5	120	759.00
224-2102	18002	Digital Aquabath	6.7 L	5 7/8 x 11 5/8 x 5	120	786.50
224-2018	18007	Digital Aquabath	14.6 L	12 3/4 x 11 5/8 x 5	120	995.50
224-2046	18102	Digital Aquabath	22.0 L	11 5/8 x 19 1/2 x 5	120	1100.00
224-1976	18802	Digital Aquabath	6.7/14.6 L	5 7/8 x 11 5/8 x 2-5	120	1369.50
224-1906	18020	Standard Aquabath	2.0 L	5 7/8 x 11 5/8 x 2 1/2	120	484.00
224-1934	18050	Standard Aquabath	3.1 L	5 7/8 x 5 3/8 x 5	120	515.00
223-2400	18000	Standard Aquabath	6.7 L	5 7/8 x 11 5/8 x 5	120	599.50
224-1892	18005	Standard Aquabath	14.6 L	12 3/4 x 11 5/8 x 5	120	808.50
224-1920	18100	Standard Aquabath	22.0 L	11 5/8 x 19 1/2 x 5	120	896.50
224-1878	18800	Standard Aquabath	6.7/14.6 L	5 7/8 x 11 5/8 x 5	120	1193.50

baths, water, circulating**Multi-Purpose Circulating Water Baths—Lindberg/Blue M**

Temperature Range: 5°C above ambient to $+100^\circ\text{C}$, uniformity $\pm 0.1^\circ\text{C}$; maximum temperature dependent on altitude and load. Gable cover is optional and recommended for most efficient operation above $+60^\circ\text{C}$.

AWS NO	SUP. NO.	TANK DIMENSIONS	VOLTS	PRICE
223-2414	WB1110A	12 x 7 1/2 x 7 1/2	120	1751.40
223-2421	WB1120A	18 x 12 x 7 1/2	120	1922.55
223-2428	WB1130A	20 x 18 x 9 1/2	120	2136.75
223-2435	WB1140A	36 x 18 x 9 1/2	120	2618.70



Gable Covers

Semi Transparent polycarbonate construction permits viewing during operations.

AWS NO	SUP. NO.	BASE BATH MODEL	DESCRIPTION	PRICE
225-1328	118107	WB1110A	Polycarbonate	228.90
225-1335	118108	WB1120A	Polycarbonate	256.20
225-1342	118109	WB1130A	Polycarbonate	273.00
225-1349	118110	WB1140A	Polycarbonate	283.50
225-1356	38576601	WB1110A	Stainless Steel	228.90
225-1363	38576602	WB1120A	Stainless Steel	256.20
225-1370	38576603	WB1130A	Stainless Steel	273.00
225-1377	38576604	WB1140A	Stainless Steel	289.80

Glass Thermometer

AWS NO	SUP. NO.	BASE BATH MODEL	DESCRIPTION	PRICE
225-1384	C101C-6	WB1100A Series	Thermometer	103.95

batteries

Duracell

AWS NO	SUP. NO.	DESCRIPTION	QTY/PACK	PACK PRICE
060-6417	51778	D	10	18.23
060-6409	51757	C	10	18.23
060-6393	60802	AA Size	20	21.98
060-6385	83557	9 Volt	6	20.73
060-6401	47458	AAA Size	16	18.23

beakers, reusable glass



Pyrex® brand, Griffin, Low Form, Double Scale Graduated Beaker—Corning

Beaker, with spout, manufactured with uniform wall thickness, offers optimum balance between thermal shock resistance and mechanical strength. For convenience, the 250 through 4000mL beakers have a double graduated metric scale to indicate approximate content. All sizes have an extra large marking spot. The 10mL size is not graduated.

AWS NO	SUP. NO.	CAPACITY	APPROX. OD X HT.	EACH PRICE	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-1817	1000-10	10	25 x 32 mm	3.50	12	48	34.92	132.00
010-1921	1000-20	20	32 x 40 mm	3.00	12	48	29.95	113.28
010-2001	1000-30	30	35 x 53 mm	3.00	12	48	29.95	113.28
010-2089	1000-50	50	42 x 56 mm	3.00	12	48	29.95	113.28
010-1825	1000-100	100	50 x 72 mm	3.20	12	48	31.78	120.00
010-1889	1000-150	150	57 x 86 mm	3.00	12	48	29.95	113.28
010-1977	1000-250	250	68 x 90 mm	3.00	12	48	29.95	113.28
010-2033	1000-400	400	77 x 110 mm	3.55	12	48	35.58	134.40
010-2145	1000-600	600	90 x 124 mm	4.50	6	36	22.50	127.44
010-2153	1000-800	800	88 x 135 mm	6.20	6	24	31.00	117.12
010-1849	1000-1L	1000	108 x 158 mm	8.55	6	24	42.77	161.76
010-1905	1000-1XL	1500	121 x 166 mm	12.85	4	16	42.77	130.40
010-1945	1000-2L	2000	131 x 193 mm	16.95	4	8	56.46	106.72
010-2025	1000-3L	3000	146 x 218 mm		1	6	23.91	135.60
010-2081	1000-4L	4000	180 x 250 mm		1	6	41.64	236.10

PYREX® brand, Griffin, Heavy-Duty, Graduated Beaker—Corning

Heavy duty beakers specifically designed to offer the best mechanical strength under harsh conditions, such as mechanized washing operations. For convenience, the 250 through 4000mL beakers have a double graduated metric scale to indicate their approximate content. All sizes have an extra large marking spot.

AWS NO	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	EACH PRICE	PACK PRICE	CASE PRICE
010-1897	1003-150	150	12	48	5.65	56.51	312.60
010-1993	1003-250	250	12	48	5.60	55.85	211.20
010-2041	1003-400	400	12	48	7.50	74.65	271.30
010-2137	1003-600	600	6	36	8.60	42.97	243.72
010-1873	1003-1L	1000	6	24	17.05	85.77	310.08
010-1953	1003-2L	2000	4	8	33.55	111.75	211.20
010-2073	1003-4L	4000	1	4		51.35	194.08



beakers, reusable glass CONTINUED

BOMEX® brand, Griffin, Low Form, Double Scale, Graduated Beaker, Economy

AWS NO	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	EACH PRICE	PACK PRICE	CASE PRICE
471-3250	1500-50	50	12	192	2.75	17.40	278.40
471-3257	1500-100	100	12	192	2.75	17.40	278.40
471-3264	1500-150	150	12	192	2.95	19.68	314.88
471-3271	1500-25	250	12	96	3.00	20.64	165.12
471-3278	1500-400	400	12	48	3.15	26.04	104.16
471-3285	1500-600	600	6	48	3.50	18.66	149.28
471-3292	1500-800	800	6	48	4.75	21.36	170.88
471-3299	1500-1000	1000	6	24	6.95	30.36	121.44
471-3306	1500-2000	2000	4	16	13.50	38.08	152.32

beakers, plastic, reusable

Beakers, Griffin Style—Dynalon®

Autoclavable Polypropylene ~ Graduated for general laboratory use. Will withstand temperatures up to 120°C. Special no-drip pouring spouts. Graduated in ml. Specify capacity desired when ordering.

AWS NO.	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	EACH PRICE	PACK PRICE	CASE PRICE
030-5337	222075-0050	50	20	40	1.50	23.50	47.00
030-5305	222075-0100	100	12	48	1.65	15.75	63.00
030-5329	222075-0250	250	8	40	2.00	12.70	63.50
030-5345	222075-0500	500	6	36	3.95	18.80	112.80
030-5313	222075-1000	1000	4	12	5.10	16.30	48.90
030-5321	222075-2000	2000	2	4	12.20	19.50	39.00
030-5353	222075-5000	5000	2	4	24.50	39.20	78.40



Graduated Beakers, Griffin Style—Dynalon®

Clear PMP—Autoclavable—Excellent chemical resistance. Autoclavable, can withstand temperatures up to 170° C. Permanent graduations molded in mL. Unbreakable and transparent. Special no-drip pouring spout. Specify capacity desired when ordering.

AWS NO.	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	EACH PRICE	PACK PRICE	CASE PRICE
030-5289	222045-0050	50	20	40	2.85	45.76	91.52
030-5257	222045-0100	100	12	48	2.95	28.00	111.98
030-5281	222045-0250	250	8	40	4.90	31.28	156.42
030-5297	222045-0500	500	6	36	7.65	36.70	220.22
030-5265	222045-1000	1000	4	12	9.85	31.42	94.27
030-5273	222045-2000	2000	2	4	18.10	28.93	57.86



beakers, plastic, reusable CONTINUED

Beaker with Handle—Dynalon®



Graduated - Low Form Adds Stability - Autoclavable Polypropylene. Made of transparent autoclavable polypropylene. Ideal for many industrial and chemical applications. Graduated in liters and ml's.

AWS NO	SUP. NO.	CAPACITY	QTY/CASE	EACH PRICE	CASE PRICE
030-4921	326495-0500	500	24	6.10	116.93
030-4897	326495-1000	1000	24	6.25	119.68
030-4905	326495-2000	2000	12	7.00	67.32
030-4913	326495-3000	3000	12	8.95	85.69
030-4929	326495-5000	5000	12	26.54	289.60

Beakers (PMP) Tapered Low-Form, Printed

- Shatter-resistant - reduce breakage & incidence of injury!
- Chemically resistant to most acids, bases and many common solvents
- Autoclavable
- Glass-like clarity of polymethylpentene
- Maximum temperature 180° C

AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	PACK PRICE
031-3329	522655-0050	50	10	13.42
031-3393	522655-0100	100	10	16.83
031-3377	522655-0250	250	10	27.50
031-3353	522655-0400	400	10	38.72
031-3337	522655-0500	500	10	42.79
031-3321	522655-0600	600	5	24.86
031-3401	522655-1000	1000	5	37.18
031-3385	522655-2000	2000	1	15.40
031-3361	522655-3000	3000	1	16.61
031-3345	522655-5000	5000	1	23.32

beakers, plastic, disposable

Tri-Stir Beakers



The Tri-Stir Beaker features "V" notched corners for easy pouring.

AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	PACK PRICE
040-2665	80092	50	100	21.60
040-2641	80093	100	100	23.49
040-2649	80094	250	100	31.71
040-2657	80096	400	100	35.14
040-2673	80097	800	100	46.29
040-2633	80098	1000	100	49.1



beakers, stainless steel

Griffin Style Beakers with Pour Spout—Polar Ware

Seamless construction allows for easy transfer of liquids. Capacity full mark near top of beaker assures accurate measuring.

AWS NO	SUP. NO.	CAPACITY	PRICE EACH
065-0681	2W (w/handle)*	2000 mL	59.70
065-0688	3W (w/handle)*	3000 mL	62.40



bench protectors

Absorbent Blue Bench Underpad Standard Weight

Super absorbent underpads are made with a cellulose filler sandwiched between two layers of tissue that is embossed overall for superior wicking of fluid.

AWS NO	SUP. NO.	DESCRIPTION	SIZE	QTY/CASE	CASE PRICE
180-2929	610024	Standard Weight	23 x24	200	70.60

LABMAT Liners White—Bel-Art

The entire sheet can be rolled up and discarded after contamination. Labmat liner is 20" wide (50.8cm) and is packed in 50ft.(915.2meter) rolls, each in a handy dispenser carton.

AWS NO	SUP. NO.	DESCRIPTION	SIZE	EACH PRICE
061-2769	F24675-0000	White	50 ft. roll	37.07



VERSI-DRY™ KAYDRY Lab Table Soakers (White)—NPS

AWS NO	SUP. NO.	DESCRIPTION	SIZE	QTY/CASE	CASE PRICE
181-3584	62050	Dispenser	20" x 300'	1	137.33
181-3605	62060	Roll	20" x 300'	2	238.17

blenders



1 Liter Laboratory Blender—Waring

Available with handled containers of heat-resistant glass or stainless steel, both with 2-piece vinyl/clear styrene lids. Two-speed models have 0-60 second timer and indicator light. UL Listed.

Two Speed Blender

18,000 - 22,000 no load RPM speed.

AWS NO	SUP. NO.	DESCRIPTION MOTOR	BLADE	CONTAINER	PRICE
223-0398	7011G	1L, 2 Speed	Standard	Glass	255.40
223-0335	7011HS	1L, 2 Speed	Standard	Stainless Steel	372.10
223-0405	7010G	1L, 2 Speed, w/Timer	Standard	Glass	278.55
223-0363	7010S	1L, 2 Speed, w/Timer	Standard	Stainless Steel	333.50

bottles, aspirator

PYREX® brand Aspirator, Outlet for tubing—Corning

A range of bottles featuring a tubular sidearm outlet to facilitate attachment of flexible tubing. Useful as a delivery/storage container for solutions.

AWS NO	SUP. NO.	CAPACITY	STOPPER SIZE	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-3297	1220-4L	4000	10	1	4	94.45	357.88
010-3017	1220-2X	9500	12	-	1	-	197.79

60 ml B.O.D. Bottles with Glass "Robotic" Stopper—Wheaton

AWS NO	SUP. NO.	NUMBER SEQ.	QTY/CASE	CASE PRICE
470-8382	227494-00	Un-numbered	36	412.96
470-8361	227494-01	01 - 36	36	484.05
470-8368	227494-02	37 - 72	36	484.05
470-8375	227494-03	73 - 108	36	484.05
470-8389	227494-99	Specials	36	594.30
063-2579	227723	Plastic Cap for BOD Bottles	50	29.96
064-5242	227728	Rack for 60 mL Bottles, 20 Place	1	36.63
032-3519	227680	Acrylic Robotic BOD Stopper	12	32.62



300 ml B.O.D. Bottles with Glass "Robotic" Stopper—Wheaton

AWS NO	SUP. NO.	NUMBER SEQ.	QTY/CASE	CASE PRICE
470-6303	227497-00	unnumbered	24	192.36
470-5897	227497-01	01-24	24	200.73
470-5988	227497-02	24-48	24	200.73
470-6100	227497-03	49-72	24	200.73
470-6114	227497-04	73-96	24	200.73
470-6128	227497-05	97-120	24	200.73
470-5904	227497-06	121-144	24	200.73
470-5918	227497-07	145-168	24	200.73
470-5932	227497-08	169-192	24	200.73
470-5946	227497-09	193-216	24	200.73
470-5960	227497-10	217-264	24	200.73
470-5974	227497-11	265-289	24	200.73
470-6142	227497-99	Specials	24	357.98
471-1140	227670	Replacement Glass Stopper	12	32.62
032-3519	227680	Acrylic Rotobit B.O.D. Stopper	12	32.62
063-2579	227723	Plastic Cap for BOD Bottles	50	29.96
064-5235	227730	300 mL Bottle Rack, 12 place	1	29.06
064-5249	227735	300 mL Bottle Rack, 24 place	1	43.71
064-6481	776580	B.O.D. Stopper Leash	25	



bod seed

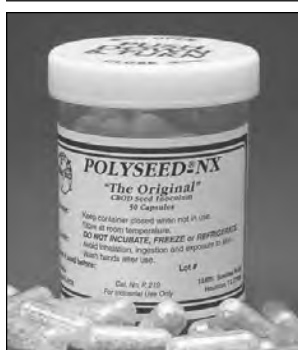
BOD Seed-PolySeed



Convenient, fast and economical BOD analysis with consistent results. Each capsule contains 100mg of specialized microbial cultures ideal for use in a broad range of areas involving degradation of industrial and municipal waste.

AWS NO	CAPSULE COUNT	PRICE
065-1000	50	100.00

CBOD Seed-PolySeed



Cost effective CBOD analysis. A blend of specialized microbial cultures containing a chemical additive for the inhibition of nitrifying bacteria in wastewater samples. Designed to provide a standard seed source for the degradation of both industrial and municipal waste in CBOD testing.

AWS NO	CAPSULE COUNT	PRICE
065-1002	50	125.00

boiling beads, borosilicate

Glass Balls - Solid Borosilicate

AWS NO	SUP. NO.	SIZE	PRICE LB.
064-3137	102 D	4mm	79.75
064-3139	102 E	5mm	74.00
064-3141	102F	6mm	72.15

boiling beads, soda lime

Glass Balls-Solid Soda Lime

AWS NO	SUP. NO.	SIZE	PRICE LB.
064-3130	100 E	4mm	13.15
064-3132	100 F	5mm	12.25
064-3134	100 G	6mm	11.65

boiling stones

Asst. Mesh 4-12

AWS NO	SUP. NO.	SIZE	PRICE
064-5120	54010	12oz bottle	19.00



Clearboys, polycarbonate-Nalgene

polypropylene spigot and screw closure

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
033-0645	2317-0020	1L	1	121.30	4	441.00
033-0652	2317-0050	20L	1	157.15	4	571.30

**Carboys with Spigot**

Low-density polyethylene

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
033-0785	2318-0010	4L	1	51.50	6	299.00
033-0792	2318-0020	10L	1	75.00	6	429.20
033-0799	2318-0050	20L	1	89.00	4	342.70

**Carboys with Spigot, polypropylene-Nalgene**

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
033-0498	2319-0020	10L	1	92.00	6	480.10
033-0505	2319-0050	20L	1	115.30	4	401.00



Rectangular Carboys with Spigot—Nalgene



High-density polyethylene

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
033-0582	2320-0020	9L	1	75.00	6	430.50
038-0589	2320-0050	20L	1	99.73	4	359.00



Autoclavable Rectangular Carboys with Spigot, polypropylene—Nalgene

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
033-0610	2321-0020	9L	1	98.85	6	515.80
033-0617	2321-0050	20L	1	124.50	4	433.00

bottles, cubitainers

Cubitainers in assembled carton with screw cap—Qorpak



AWS NO	SUP. NO.	CAPACITY	QTY/CASE	CASE PRICE
040-9099	3H00Q	128 oz.	8	56.50
041-0730	3H04Q	5 gal	8	121.65

Milk Dilution, Screw Cap, Graduated—CORNING®

- Narrow mouth bottle with a cut-line graduation mark at 99 ± 1 mL
- Phenolic cap with rubber liner will withstand sterilization (wet at 121°C)
- Meets the requirements for milk dilution bottles stated in the "Standard Methods for the Examination of Dairy Products", published by the American Public Health Association.



AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-2985	1372-160	160	12	48	58.86	223.20

Milk Dilution, Wide Mouth, Screw Cap, Graduated—CORNING®

- Wide mouth bottle for easy measuring or filing
- With cut-line graduation mark at 99 ± 1 mL
- Phenolic cap with rubber liner will withstand sterilization (wet at 121°C)



AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-2977	1373-160	160	12	48	70.11	265.44

bottles, dropping**Bottles, Dropping (LDPE)—Dynalox®**

- Polyethylene dropper bottles with dispenser caps
- Designed for dispensing indicator solutions, dyes, etc.
- Supplied in seven convenient sizes
- The half ounce size has a 2-piece dispensing unit
- Larger sizes have hinged caps.

AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
031-0393	605065-0	1/2 oz./15 ml	12	48	13.45	53.80
031-0401	605065-1	1 oz./30 ml	12	48	25.30	73.48
031-0417	605065-02	2 oz./60 ml	12	36	27.25	66.00
031-0425	605065-04	4 oz./125 ml	12	36	22.13	71.06



bottles, media

PYREX® brand, Media, Storage, Screw Cap—Corning

Heavy duty bottle which can be used for storage as well as mixing and sampling. Includes linerless, one-piece autoclavable polypropylene plug seal cap with drip free pouring rings. Optional red PBT caps and red ETFE pouring rings are available for dry heat sterilization (180°C).



AWS NO	SUP. NO.	CAPACITY (ML)	QTY/CASE	CASE PRICE
010-3185	1395-250	250	10	72.59
010-3393	1395-500	500	10	86.87
010-2905	1395-1L	1000	10	106.60

bottles, narrow mouth, glass

Clear Boston Rounds—Qorpak



AWS NO	SUP. NO.	CLOSURE	CAPACITY	NECK SIZE (MM)	QTY/CASE	EACH PRICE	CASE PRICE
630-7035	7712	Pulp/Vinyl Lined	4 oz. (120)	22 - 400	24	2.75	41.21
630-8547	7713	Pulp/Vinyl Lined	8 oz. (240)	24 - 400	24	3.25	50.53
630-2926	7714	Pulp/Vinyl Lined	16 oz. (480)	28 - 400	12	4.25	40.27
630-5705	7717	Pulp/Vinyl Lined	32 oz. (960)	33 - 400	12	6.14	57.19

Amber Boston Rounds—Qorpak



AWS NO	SUP. NO.	CLOSURE	CAPACITY	NECK SIZE (MM)	QTY/CASE	EACH PRICE	CASE PRICE
630-6699	7719	Pulp/Vinyl Lined	4 oz. (120)	22 - 400	24	2.75	41.21
630-8225	7720	Pulp/Vinyl Lined	8 oz. (240)	24 - 400	24	3.25	50.58
630-2625	7722	Pulp/Vinyl Lined	16 oz. (480)	28 - 400	12	4.25	40.27
630-5572	7723	Pulp/Vinyl Lined	32 oz. (960)	33 - 400	12	6.1	57.21

bottles, narrow mouth, plastic

Bottles, Narrow Mouth Polypropylene (PP)—Dynalon



Ideal for applications requiring excellent chemical resistance, autoclavability, and leakproof closures. NOTE: When autoclaving, loosen or remove closure to prevent accidental implosion.

AWS NO	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	EACH PRICE	PACK PRICE	CASE PRICE
030-7561	301725-0004	125 ml/4 oz.	12	72	1.36	11.65	69.90
030-7577	301725-0008	250 ml/8 oz.	12	72	1.85	16.57	99.40
030-7593	301725-0016	500 ml/16 oz.	12	48	2.93	26.25	105.00
030-7553	301725-0032	1 L/32 oz.	6	24	4.71	20.55	82.20

bottles, narrow mouth, plastic CONTINUED

Narrow Mouth Amber (HDPE)—Dynalon

For use with light sensitive samples. Excellent chemical resistance. Rigid, leakproof and made with FDA approved resins for use with food grade products and ultra-pure chemicals.

AWS NO	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
030-7385	301745-0008	250 ml/8 oz.	12	72	21.45	119.68
030-7393	301745-0016	500 ml/16 oz.	12	48	31.30	116.49
030-7361	301745-0032	1 L/32 oz.	6	24	26.50	98.67

Narrow Mouth Low Density Polyethylene (LDPE)—Dynalon

Flexible, translucent and supplied with leak proof polypropylene screw closures. Ideal for storage and sampling of liquids.

AWS NO	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
030-7505	301685-0004	125 ml/4 oz.	12	72	10.95	61.27
030-7521	301685-0008	250 ml/8 oz.	12	72	15.85	91.35
030-7537	301685-0016	500 ml/16 oz.	12	48	21.80	84.35
030-7497	301685-0032	1 L/32 oz.	6	24	17.52	71.50

bottles, reagent

PYREX® brand, Reagent, Narrow Mouth, PYREX®~ Stopper—Corning

With neck ground and furnished with stopper.

AWS NO	SUP. NO.	CAPACITY (ML)	STOPPER NO.	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-3633	1500-125	125	19	6	48	80.38	619.20
010-3657	1500-250	250	19	1	36	14.21	484.56
010-3673	1500-500	500	24	1	24	18.77	426.72
010-3617	1500-1L	1000	29	1	24	31.50	716.16

bottles, wash

Economy Wash Bottles, low-density polyethylene—Nalgene

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
034-0228	2401-0125	125ml	6	14.10	48	94.00
034-0235	2401-0250	250ml	6	15.96	36	79.80
034-0249	2401-0500	500ml	6	19.30	24	64.30
034-0221	2401-1000	1000ml	4	16.25	12	40.60

Wide-Mouth Unitary Wash Bottles, low-density polyethylene bottle—Nalgene

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
034-0319	2402-0250	250ml	4	15.40	36	115.40
034-0326	2402-0500	500ml	4	18.70	24	93.55
034-0305	2402-1000	1000ml	2	13.90	12	69.35

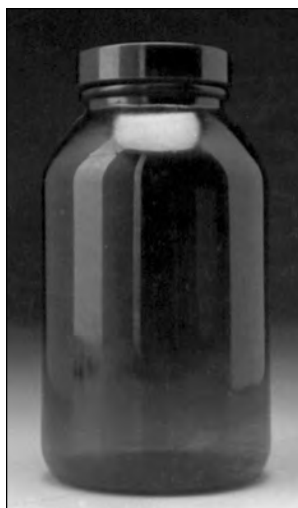


bottles, wash CONTINUED**Wide-Mouth Wash Bottles,
low-density polyethylene bottle**

AWS NO.	SUP. NO.	LITERS	PACK QTY.	PACK PRICE	CASE QTY	CASE PRICE
034-0347	2407-0500	500ml	4	14.86	24	79.25
034-0340	2407-1000	1000ml	2	10.10	12	49.15

bottles, wide mouth, glass**Clear Wide Mouths—Qorpak**

AWS NO	SUP. NO.	CLOSURE	CAPACITY	NECK SIZE (MM)	QTY/CASE	CASE PRICE
630-9142	7533W	Pulp/Vinyl Lined	8 oz. (270)	70 - 400	24	83.61
630-3444	7785W	Pulp/Vinyl Lined	16 oz. (480)	70 - 400	24	123.48
630-6195	7772W	Pulp/Vinyl Lined	32 oz. (960)	70 - 400	12	77.91

Amber Wide Mouth Packers—Qorpak

AWS NO	SUP. NO.	CLOSURE	CAPACITY (ML)	NECK SIZE (MM)	QTY/CASE	CASE PRICE
630-5481	7730	Pulp/Vinyl Lined	1 oz. (30)	28 - 400	24	28.90
630-7798	7731	Pulp/Vinyl Lined	2 oz. (60)	33 - 400	24	41.31
630-2114	7733	Pulp/Vinyl Lined	4 oz. (120)	38 - 400	24	48.97
630-4690	7734	Pulp/Vinyl Lined	8 oz. (250)	45 - 400	24	68.33
630-7546	7735	Pulp/Vinyl Lined	16 oz. (500)	53 - 400	12	41.08
630-9191	7738	Pulp/Vinyl Lined	32 oz. (950)	53 - 400	12	54.76

bottles, wide mouth, plastic**Wide Mouth Amber (HDPE)—Dynalon**

- Leakproof, amber colored opaque bottles; supplied with black polypropylene screw closures
- Excellent chemical resistance. Suitable for sampling and storage of light sensitive liquids and solids

AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
030-7969	301645-0008	250 ml/8 oz.	12	72	27.90	155.76
030-7977	301645-0016	500 ml/16 oz.	12	48	36.80	136.95
030-7945	301645-0032	1L/32 oz.	6	24	32.15	119.68



Wide Mouth (LDPE), Dynalon

- Translucent bottles have greater flexibility and impact resistance than HDPE bottles

AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	QTY/CASE	EACH PRICE	PACK PRICE	CASE PRICE
030-8113	301665-0008	250 ml/8 oz.	12	72	2.09	20.04	109.30
030-8121	301665-0016	500 ml/16 oz.	12	72	2.93	17.78	97.00
030-8089	301665-0032	1L/32 oz.	6	24	4.88	24.12	87.70



Wide Mouth (HDPE)—Dynalon

- Excellent chemical resistance
- Ideal for storage and handling of liquids or solids
- Made with FDA-approved resin for non-contaminating storage of chemicals and food grade products

AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
030-7793	301605-0004	125 ml/4 oz.	12	72	13.40	73.10
030-7809	301605-0008	250 ml/8 oz.	12	72	19.65	111.80
030-7825	301605-0016	500 ml/16 oz.	12	48	27.83	101.20
030-7785	301605-0032	1L/32 oz.	6	24	25.63	93.20



Wide Mouth Polypropylene (PP)—Dynalon

- Excellent chemical resistance
- Ideal for storage and sampling of liquids or solids

NOTE: When autoclaving, loosen or remove closure to prevent accidental implosion.

AWS NO	SUP. NO.	CAPACITY (ML)	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
030-7865	301625-0004	125 ml/4 oz.	12	72	16.25	87.12
030-7897	301625-0008	250 ml/8 oz.	12	72	25.60	135.95
030-7921	301625-0016	500 ml/16 oz.	12	48	36.35	129.69
030-7849	301625-0032	1L/32 oz.	6	24	29.60	105.60

brushes

Babcock Milk Test Bottle, 8%, Fan Tip

AWS NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
061-3905	White Bristle	5/8	1.6	1 3/12	8.9	10 1/2	26	1.44

Beakers, Jars, and Cylinder Brush, Wood Handle, Tufted End

AWS NO.	SUP. NO.	BRUSH MATERIAL	ROWS	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
060-6609	4111	Black Bristle	2	2 3/8	6	6	15	16	41	7.25

Burrett Brush, Stainless Steel Wire

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
060-7209	5321	White Polyester	1/2	1.3	3 1/4	8.1	30	75	3.47
060-7201	5322	White Polyester	3/4	1.9	3 1/4	8.1	36	90	3.75
060-7193	5323	White Polyester	1 1/4	3.1	5 1/4	13.1	36	90	3.99

Carboy Brush

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
060-1770	1770	Black Nylon	2	5.0	8	20	22	55	9.95

Cylinder & bottle Brush, Radial End

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
060-9049	1625-4	Black Nylon	2 3/8	6.0	6	15.0	20	50	6.55
060-9033	1625-6	Black Nylon	2 1/2	6.3	6	15.0	17	43	6.55

Flask Brush, Stainless Steel Wire

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
061-0761	5315	White Polyester	1 3/8	3.5	3 1/2	8.8	12	30	4.66
061-0753	5316	White Polyester	1 1/2	3.8	4	10	14	36	4.76
061-0745	5317	White Polyester	1 3/4	4.4	5	12.5	17	43	4.83

Imhoff Cone Brush, Fan Tip, Hardwood Handle

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
061-2281	1710	Horse Hair/Brown Nylon	3/4-4	1.9-10.0	9 3/4	24.3	24	61	21.84

Pipette Brush, Stainless Steel Wire

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
061-5721	5310	White Polyester	3/16-3/4	.5-1.9	7 1/2	19	17	43	3.40

Test Tube Brushes, Radial Tip

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)		LENGTH (in/cm)		OVERALL LENGTH (in/cm)		PRICE
062-5617	1897	White Bristle	1/2	1.3	3	7.5	8	20	1.73
062-4577	1887	White Bristle	3/4	1.9	3 1/4	8.1	9	23	2.27
062-4569	1888	White Bristle	1 3/8	3.5	4	10	10	25	1.68
061-0785	1780	White Bristle	1 1/2	3.8	4	10	16	40	6.70



Volumetric Flask Brushes (BOD)

AWS NO.	SUP. NO.	BRUSH MATERIAL	DIAMETER(in/cm)	LENGTH (in/cm)	OVERALL LENGTH (in/cm)	PRICE
060-3601	1790-1	White Bristle	1 3/8 3.5	3 1/2 8.9	12 30	3.78
060-4617	1790-2	White Bristle	1 1/2 3.8	4 10	14 35	3.82
060-2713	1790-3	White Bristle	1 3/4 4.4	5 12.5	17 43	3.85
061-0785	1780	White Bristle	1 1/2 3.8	4 10	16 40	6.70

burets, digital

Digital Buret™ II—BrandTech

Digital Buret™ is supplied with standard 45mm thread; 125 and 175 mm discharge tubes; 33mm, 38mm and STJ 29/42 polypropylene adapters; 350 mm filling tube; certificate of performance.

AWS NO	SUP. NO.	DESCRIPTION	CAPACITY	PRICE EACH
221-4113	2707467	Vitron® seal, without drying tube	25	725.00
221-4137	2707472	Vitron® seal, without drying tube	50	725.00



buret, manual, glass

PYREX® brand, Micro, Precision Bore, Funnel Top, Class A, white enamel markings—Corning

These burets are designed for precise analytical methods in microchemistry. Precision bore tubing throughout the body assures accuracy between any two points. Funnel top facilitates addition of reagents by pouring, or by suction from below through a rubber-stoppered tube.

AWS NO	SUP. NO.	CAPACITY	APPROX. OD HEIGHT	GRAD. INTERVAL	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-5337	2128-5	5 mL	7 x 735	.01	1	2	238.13	451.14
010-5185	2128-10	10 mL	8 x 735	.02	1	2	238.13	451.14



PYREX® brand, Colored Scale, Class A, Teflon® Stopcock Plug—Corning

This buret has colored markings, fine, sharp lines and large easy-to-read numbers. The stopcock barrel has a smooth micro-finish to assure leak-resistant performance. Each buret is supplied with a dust cover. All sizes are furnished with a 2mm bore stopcock plug.

AWS NO	SUP. NO.	CAPACITY (ML)	APPROX. OD HEIGHT	GRAD. INTERVAL	QTY/CASE	CASE PRICE
010-5161	2103-10	10	9 x 560	.05	1	98.38
010-5289	2103-25	25	12 x 560	.10	1	105.17
010-5369	2103-50	50	14 x 750	.10	1	112.63
010-5233	2103-100	100	18 x 752	.20	1	137.51



buret, manual, glass CONTINUED**PYREX® brand, Rotaflo®, Dual Plug, White Enamel Markeing, with Rotaflo® Stopcock—Corning**

Buret with automatic zero, Rotaflo® dual stopcock. The dual stopcock helps eliminate titration errors.

AWS NO	SUP. NO.	CAPACITY (ML)	APPROX. OD HEIGHT	GRAD. INTERVAL (ML)	QTY/CASE	CASE PRICE
010-5321	2110-25	25	12 x 560	.10	1	248.66
010-5401	2110-50	50	14 x 760	.10	1	255.62

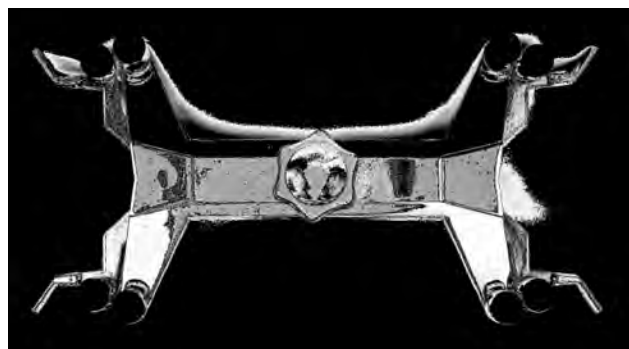
buret, auto self zero class A**Stopcock, Teflon**

AWS NO	CAPACITY (ML)	CODE	SUB-DIV (ML)	TOL (ML)	CAPACITY BOTTLE (ML)	ST JOINT	PRICE EACH
472-1000	10	-23	.05	0.02	1000	24/40	114.71
472-1003	25	-24	.10	0.03	1000	24.40	119.81
472-1006	50	-25	.10	0.05	2000	29.42	133.12

buret, holder/clamp**Rectangular Supports**

Stamped steel, black enamel finish, plated rods.

AWS NO	SUP. NO.	BASE SIZE	ROD SIZE	PRICE EACH
060-7273	H-21202	4" x 6"	5/16" x 18"	19.25
060-7281	H-21212	5" x 8"	3/8" x 20"	21.15
060-7289	H-21222	6" x 9"	1/2" x 24"	28.35

**Double Buret Clamp**

AWS NO	SUP. NO.	PRICE EACH
170-1323	3020	25.60

Double Buret Stand

AWS NO	SUP. NO.	PRICE EACH
170-3395	3030	32.40



Bunsen Burners

- Bases are nickel-plated die-cast zinc alloy
- All burners feature aluminum mixing tubes, and serrated gas inlet connections

AWS NO	SUP. NO.	DESCRIPTION	FOR GASES	PRICE EACH
060-7385	H-5825	Drilled Orifice	Natural	21.10

burner accessories

Flexboard Mat—Boekel

259 Series are ceramic fiber mats used to protect lab benchtops from hot metal and glassware at temperatures up to 350°C.

AWS NO	SUP. NO.	DESCRIPTION, SIZE	PRICE EACH
061-0793	259402	14 x 24 (36x61cm)	51.00

Alcohol Lamps and Accessories—Boekel

ALCOHOL LAMP MODEL 1968

- Capacity of 170 ml (5 oz.)
- Wick height is easily and safely adjusted with thumbwheel sprocket
- This Boekel Alcohol Lamp is a nickel plated brass vessel with solid brass fittings, handle and snuffer cap
- Height is 8.9 cm (3-1/2") - Diameter 6.7cm (2-3/4").

ALCOHOL LAMP MODEL 19691

- Capacity of 135ml (4 oz)
- This flat, conical shaped spun aluminum lamp from Boekel is specially constructed for stability, and is much safer than glass alcohol lamps
- Supplied with aluminum snuffer cap, wick holder and one extra wick
- Height is 8.9 cm (3-1/2") - Diameter 10.2 cm (4").

TWO WAY LAMP STAND MODEL 19693

This Boekel Lamp Stand can be used at a 10.2 cm (4") or 12.7 cm (5") height to vary the distance between the heated vessel and the alcohol lamp.

AWS NO	SUP. NO.	DESCRIPTION	SIZE	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
060-5513	1968	Alcohol Lamp	5 oz.			-	50.00
060-5521	19691	Alcohol Lamp	4 oz.			-	18.60
180-7313	19691W	Replacement Wicks for Model #19691		12		6.00	-

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Universal Converter—Control Company

Universal Converter does it all—convert any unit to another, use it as a calculator, stopwatch, or time-of-day clock with alarm.

Convert numbers from one unit to another instantly. Ideal for petroleum, biomedical, water/sewage, chemical, QC, and research labs. Imagine the convenience of having a handbook converter at your fingertips.

Complete operation may be learned in less than a minute. Instructions printed on the back eliminate any need to refer to directions. Storing a conversion factor takes just two keystrokes.

Supplied with eight-digit LCD display, 1-year, silver-oxide battery, instructions, quick reference conversion labels, and clear carrying case.

Size is $3\frac{3}{8} \times 2\frac{1}{4} \times 1\frac{1}{4}$ inches and weight is 0.9 ounces.



AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
222-9809	6030	Universal Converter	27.44

Chemical Solution Calculator—Control Company

Chemical Solution Calculator simplifies the art of making perfect lab solutions. Instantly compute solutions, formulate dilutions, make reagents, calculate chemical strengths, and determine standard solutions for titrators, pH meters, spectrophotometers, and other lab instruments. Ideal device for the user who makes just one solution a month and doesn't want to spend an hour with handbooks, and a time-saver for power users making hundreds of solutions a week. Supplied with easy-to-understand instructions, ABS cover, and lithium batteries. Size is $5\frac{1}{4} \times 2\frac{3}{4} \times 3\frac{3}{8}$ inches, weight is $3\frac{1}{2}$ ounces.



AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
221-2817	6000	Chemical solution Calculator	169.17

carts, utility

Stainless Steel UTILITY CARTS—Lakeside



Shelf size 21" x 35", angle leg models.

Overall size: 22 ³/₈" x 39 ¹/₄" x 37 ¹/₄"

Clearance between shelves: 13 1/8"

Stainless steel top: 20 guage, with front and back reinforced

Stainless steel legs: 16 guage

Std. bumper equip: Legs and handle

Dia. of casters: 5" all swivel

Shipping weight: 68 lbs.

AWS NO	SUP. NO.	DESCRIPTION	CAPACITY	PRICE EACH
060-7761	444	21 x 35	400 lb.	507.00

BC SERIES Utility Carts—Metro

Metro's new BC Series Utility Carts are designed for a wide variety of applications. Shelves are specially designed to resist staining and wipe clean easily. Ship's edge lip around shelf perimeter contains spills. Available in 2-shelf and 3-shelf. Color: Gray

AWS NO	SUP. NO.	DESCRIPTION	W X L X H (IN)	PRICE EACH
100-2137	BC1627-34G	3-shelf unit	18 x 28 x 33 1/4	195.00
100-2129	BC2030-24G	2-shelf unit	21 1/2 x 33 3/4 x 33 1/4	215.00
100-2113	BC2636-24G	2-shelf unit	27 x 39 1/2 x 33 1/4	255.00

centrifuges

Z230A Compact Lab Centrifuge

For industrial applications

Speeds up to 5,500 rpm

60 minute timer with "hold" position

AWS NO	SUP. NO.	DESCRIPTION	PRICE
200-1355	C2300AA-2	Compact centrifuge without rotor	895.00
200-1357	C0230-14	angle rotor, 8 x 15ml with shields, 5,500 rpm/3,310 xg	235.00
200-1344	C0230-17	Adapters, 5ml (10, 12 x 75mm), pk/4	57.00
200-1361	C0230-18	Swing out rotor, 6 x 115ml with shields, 3,500 rpm/1,420 xg	410.00



Z200A Universal Compact Centrifuge—Labnet

The Z200A accepts up to 12 x 15ml clear or round bottom tubes. Adapters are available for tubes with smaller dimensions. For larger volumes, the Z200A accommodates an angle rotor for 6 x 50 ml conical and round bottom tubes.

TECHNICAL DATA**Volume:**

max. 12 x 15ml/6 x 50ml

Speed:

max speed/RCF: 6000 rpm/4185 x g

min speed/RCF: 250 rpm/7 x g

speed range: 250 - 6000 rpm

speed setting: knob controlled, 250 rpm increments

speed display: preset and actual speed -displayed digitally

Dimensions (cm/inches):

Width: 28/11.0

Height: 26/10.2

Depth: 37/14.6

Weight: 15 kg/33 lbs

Power Consumption: 100W



AWS NO	SUP. NO.	DESCRIPTION	PRICE
200-1465	C0200-A	Compact centrifuge, without rotor	1250.00
200-1471	C0200-97	Angle rotor, 6 x 50 ml conical/round	525.00
200-1106	C0232-8	Adapter 15 ml conical 50 ml rotor, pk/4	60.00
200-1309	C0232-9	Adapter 5 to 7 ml round in 50 ml rotor, pk/4	60.00
200-4042	C0230-41	Cushion 12, 13 x 75 mm in C0232-9, pk/12	15.00
200-4049	C0200-96	Angle rotor, 12 x 15 ml with shield	295.00
200-4063	C0200-10	Adapter 15 ml (16, 17 x 100 mm) pk/4	50.00
200-1344	C0230-17	Adapter 15 ml (10 to 12 x 75 mm) pk/4	50.00

Z300 Universal Laboratory Centrifuge—Labnet

The Z300 is a versatile centrifuge which accommodates both swing out and fixed angle rotors and can process many different tube sizes. Versatility along with high speed capabilities makes the Z300 an ideal centrifuge for routine clinical as well as research applications.

TECHNICAL DATA:

Volume: max. 4 x 100 ml

Speed: max. speed/RCF: 13,500rpm/17310 xg

mm. speed/RCF: 250 rpm/10 xg

speed selection: knob controlled, 250 rpm increments

speed display: preset and actual speed displayed digitally

Running time:

max. time: 60 mm/continuous run

min. time: 1 mm.

time setting: knob controlled, 1 mm. increments

time display: remaining time

Brake:

displayed digitally automatically controlled brake force with soft stop (for acceleration and deceleration times see rotor)

AWS NO	SUP. NO.	DESCRIPTION	PRICE
200-3843	C0300	Universal Centrifuge	2495.00
200-3612	C0323-72	Rotor complete with buckets and covers	1395.00
200-2149	C0320-728	Insert, 1 x 50 ml (conical) tube	54.00
200-2177	C0320-726	Insert 2 x 15 ml tube (conical without lid)	54.00
200-2219	C0320-730	Insert, 4 x 7 ml (13 x 100 mm) tube	54.00
200-2261	C0320-725	Insert, 7 x 5 ml (10, 12 x 75 mm) tube	54.00

clamps**Tri-Grip "45" Combination Utility and Burette Clamp—Lab-Line**

- Three-pronged jaws
- Three vinyl and three woven fiberglass high temperature sleeves included
- 360°-rotating 45° angle ribbed thumbscrew clamp holder

AWS NO	SUP. NO.	DESCRIPTION	ROD DIA. CM	JAW CAP CM	SUPPORT ROD CM	TOTAL LENGTH	PRICE EACH
063-3216	7010	Small	0.9	3.8	9.5 x 14	17.8	24.00
063-3202	7014	Large	1.1	8.9	9.5 x 14	17.8	24.00
063-3209	7022	Micro	0.6	2.54	5 x 14	0.6	24.00

Tri-Grip "45" Extension Clamps—Lab-Line

- Three-pronged jaws
- Three vinyl and three woven fiberglass high temperature sleeves included
- Sizes to fit every application

AWS NO	SUP. NO.	DESCRIPTION	ROD DIA. CM	JAW CAP CM	TOTAL LENGTH	PRICE EACH
063-3426	7000	Small	0.9	3.8	22.9	22.00
063-3412	7004	Large	1.1	8.9	27.9	24.00
063-3419	7018	Micro	0.6	2.54	16.5	22.00



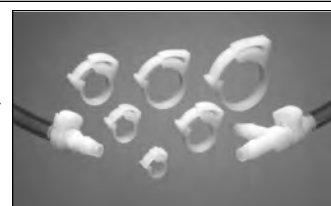
Hose/Tubing Tight-Seal™—Control Company

CLAMPS ELIMINATE LEAKS AT FITTINGS.

Nylon tubing clamps securely fasten tubing on connectors, pumps, glassware, and filtration units. Chemical-corrosion resistant, rustproof, and nonconducting nylon is ideal for use in wide-temperature range of 32 to 194°F.

One-piece, reusable clamp squeezes shut for a leakproof seal, pressing on the side releases the clamp. Designed specifically for pressure, vacuum, and liquid applications where a tight seal is required. Tight-Seal is the only clamp that works with all types of plastic and rubber tubing. May be chemically or gas sterilized for biomedical or food applications. Available in 13 sizes to accommodate tubing with an outside diameter of 0.246 to 1.610 inches.

Includes 5 of each of the 13 clamps listed. Handy kit ensures that the proper size is always immediately available.



AWS NO	SUP. NO.	DESCRIPTION	PRICE
061-2137	3280	Hose/Tubing Clamp Assortment	37.00

cleaners

Alconox® Powdered Precision Cleaner—Alconox

Concentrated, anionic detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Ideal for cleaning contaminants from glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Excellent replacement for corrosive acids and hazardous solvents. USDA authorized. Dilute 1:100. pH 9.5

AWS NO	SUP. NO.	DESCRIPTION	QTY/CASE	PRICE EACH	CASE PRICE
395-1001	1104	4 lb. Boxes	9	17.70	108.00
290-2830	1125	25 lb. Case	-	92.00	-



Liqui-Nox® Critical Cleaning Liquid Detergent—Alconox

Concentrated, anionic detergent for manual and ultrasonic cleaning. Free rinsing to give you reliable results without interfering residues. Extremely mild and completely soluble in hard and soft water. USDA authorized. Dilute 1:100. pH 8.5.

AWS NO	SUP. NO.	DESCRIPTION	QTY/CASE	PRICE EACH	CASE PRICE
400-1064	1232	1 Quart (Plastic Container)	12	12.00	86.00
405-1071	1201	1 Gallon (Plastic Container)	4	37.50	101.00



Alcojet® Low Foaming Powdered Detergent—Alconox

Nonionic. Low foaming cleaner for use in labware washers, parts washers, power-spray systems, manual and ultrasonic cleaning. Corrosion inhibited formula recommended for glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Free rinsing for reliable results and no interfering residues. SDA authorized. Dilute 1:200. pH 12

AWS NO	SUP. NO.	DESCRIPTION	QTY/CASE	PRICE EACH	CASE PRICE
400-1001	1404	4 lb. box 5	9	17.70	107.00
400-1008	1425	25 lb. Case	-	92.00	-



Terg-A-Zyme® Enzyme Active Powdered Detergent—Alconox

Concentrated, anionic detergent with protease enzyme for manual and ultrasonic cleaning. Excellent for removal of proteinaceous soils, tissue, blood, and body fluids from glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass with no interfering residues. Ideal as a cleaning agent in Reverse Osmosis and Ultra-Filtration Systems. USDA authorized. Dilute: 1:100. pH 9.5

AWS NO	SUP. NO.	DESCRIPTION	QTY/CASE	PRICE EACH	CASE PRICE
380-1001	1304	4 lb. Box	9	17.70	108.00
400-1036	1325	25 lb. Case	-	92.00	-





Alcotabs® Critical Cleaning Detergent Tablets— Alconox

Effervescent detergent tablet for maximum cleaning in syphon pipette washers to clean pipettes and tubes. Slow release bubble action and free rinsing produce reliable results and no interfering residues. USDA authorized pH 6.5

AWS NO	SUP. NO.	DESCRIPTION	QTY/CASE	PRICE EACH	CASE PRICE
390-1015	1500	Bottle of 100 Tablets	6	14.00	53.00

conductivity, bench meters

Rugged Portable Conductivity/Salinity/TDS/Temperature Meter—Thermo Orion



SIMPLE PORTABLE CONDUCTIVITY/TDS/SALINITY/TEMPERATURE METER

MODEL 115

- Temperature Compensation with Adjustable Temperature Coefficient
- Exclusive DirectCal Feature for Cell Constant Determination
- P3232 and 25 Point Datalogging
- Complete With 010510 Rugged Conductivity Cell

The Orion Model 115 Conductivity Meter offers many features in a rugged, compact package designed for one hand operation. The meter simplifies conductivity measurement by offering the operator autoranging; selectable temperature compensation; adjustable temperature coefficient; total dissolved solids and salinity modes and the DirectCal feature which simplifies cell constant determination. Log up to 25 data points and read them back to an optional 900A printer or computer. The Model 115 comes complete with a 010510 graphite cell with integral temperature sensor. Meter warranty is two (2) years.

AWS NO	SUP. NO.	MODEL	PRICE EACH
360-7531	011502	#115 meter only	540.00
360-7524	011500	#115 Meter/Cell	605.00

Portable Conductivity Meter Model 311—Corning



This multi-range conductivity meter incorporates the four-ring potentiometric method for higher accuracy. Meter comes complete with meter, probe, battery and instructions.

AWS NO	SUP. NO.	MODEL #	DESCRIPTION	PRICE EACH
360-2417	475854	311	Model 311 portable conductivity meter, auto temp comp. low battery ind.	416.38
360-1497	476612		replacement probe	188.30



Conductivity Meter. Model 441 Benchtop—Corning

The 441 conductivity Meter features advanced software and microprocessing that expand accuracy while simplifying operation. The meter runs a self diagnostic test upon power up, logs data up to 10 readings, and will automatically recognize up to four preprogrammed calibration standards. Special user features such as angled graphic display, large tactile buttons, and RS232 output jack help foster the partnership between operator and device.

Sophisticated meter components are encased in a spill resistant housing with sealed keypads for accuracy even in the most rugged laboratory atmosphere, and an ISO 9001 rating further ensures superior performance.

AWS NO	SUP. NO.	MODEL	DESCRIPTION	PRICE EACH
360-2601	475348	441	Model 441 conductivity meter with probe, arm, kit (120V)	799.35
360-1393	476501	Opt. Acc.	Conductivity Probe Replacement	192.40



conductivity, waterproof portable meters

Fully Waterproof Portable Conductivity Meter Model 316—Corning

This conductivity and total dissolved solids meter is microprocessor designed and is waterproof to IP67. Additional features include data logging up to 10 values, RS232 output and a two year warranty for the meter. Data input capability for reference temperature and solids factor. Comes with hard case, wrist strap, and auto endpoint..

AWS NO	SUP. NO.	MODEL	DESCRIPTION	PRICE EACH
360-2497	475873	316	Model 316 portable waterproof conductivity meter	645.55
360-1601	476620		replacement probe	182.14



conductivity, accessories

Note: Please refer to Chemical Section (page 1).

containers

Disposable Specimen Containers—Dynalon®



White Opaque - High Density Polyethylene - Molded of high density polyethylene, these lightweight containers have tight fitting lids. White color eliminates sight of specimens. Designed to simplify and standardize the handling and storage of specimens. Excellent chemical resistance and cannot be attacked by formaldehyde or weak acids or bases. Will resist freezing or boiling temperatures. Suitable for use with food.

AWS NO	SUP. NO.	SIZE (OZ.)	INSIDE DIA. X HT.	QTY/CASE	CASE PRICE
040-4529	454395	4	3 9/16" X 1 1/8"	250	73.37
040-4505	454415	16	2 3/4" X 3 5/8"	100	42.79
040-4521	454425	32	3 3/8" X 4 5/8"	100	72.05
040-4513	454445	165	7 3/4" X 8 1/4"	25	63.58

Low Cost Disposable Specimen Containers—Dynalon®



Heavy Duty - Translucent - Lightweight containers with tight fitting lids. Molded of high-density polyethylene, non-breakable, and translucent. Designed to simplify and standardize the handling and storage of specimens. The containers are inert and cannot be attacked by formaldehyde or weak acids or bases. Will resist freezing or boiling. They have long shelf lives and are easily disposable. Sturdy enough for reuse. Easy to store, requires little space. Price includes container with lid.

AWS NO	SUP. NO.	SIZE (OZ.)	INSIDE DIA. X HT.	QTY/CASE	CASE PRICE
040-3353	453565	4	3 9/16" x 1 1/2"	250	70.62
040-3329	453605	16	2 3/4" x 3 5/8"	100	46.64
040-3345	453615	32	3 3/8" x 4 5/8"	100	74.14
040-3337	453635	165	7 3/4" x 8 1/4"	25	70.840

counters

Hand Tally Counter—Control Company

Easy-to-use, four-digit unit records up to 9999. Numbers instantly and automatically return to zero with a twist of the reset knob.

Metal construction is geared for reliability, long life, and hard use. Unique engineering provides a smooth, tactile feel with every count. Compact unit is ideal for carrying in the lab coat pocket. Size is 1^{3/4}-inch diameter by 1^{1/8}-inch width and weight is 3 ounces.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
221-7889	3125	Hand Tally Counter	17.98



crucibles

Bellwether Brand Porcelain competes head to head with the leading brands in the world. Unlike many other low cost alternative brands, Bellwether is produced with state-of-the-art quality control and raw materials. Made by a family with hundreds of years experience, it is truly becoming a leader in quality and value.

CRUCIBLES, HIGH FORM

These high form crucibles are glazed inside and out except for outside bottom surface. Crucible lids are glazed everywhere except for rim and are sold separately.

AWS NO	SUP. NO.	CAPACITY	DIA. X HEIGHT	PRICE EACH
066-0391	5011WOL	10 ml	32 x 27 mm	2.40
066-0398	5012WOL	15 ml	38 x 30 mm	2.48
066-0405	5013WOL	30 ml	47 x 39 mm	3.31
066-0419	5015WOL	100 ml	68 x 56 mm	6.14

Bellwether Porcelain



CRUCIBLES, LIDS

AWS NO	SUP. NO.	INSIDE DIA.	PRICE EACH
066-0426	5011L	36 mm	2.26
066-0433	5012L	42 mm	2.26
066-0440	5013L	50 mm	2.42
066-0454	5015L	71 mm	4.15

Crucibles with Perforated Bottoms (Coors)

PORCELAIN CRUCIBLES WITH PERFORATED BOTTOMS, FOR VACUUM FILTRATIONS

AWS NO	SUP. NO.	CAP. (ML)	TOP (MM)	BOT (MM)	HT (MM)	PRICE EACH	PRICE CASE
066-0392	60170	25	36	24	44	9.15	47.85/6
066-0394	60151	40	40	27	48	10.45	56.55/6

PORCELAIN CRUCIBLES WITH SOLID BOTTOMS, FOR DRYING SAMPLES, ETC.

AWS NO	SUP. NO.	CAP. (ML)	TOP (MM)	HT (MM)	PRICE EACH	PRICE CASE
066-0401	60105	15	29	35	3.60	36.85/12
066-0404	60107	30	43	37	5.60	59.95/12
066-0407	60108	40	50	42	5.90	62.35/12
066-0409	60109	50	54	44	6.70	72.35/12
066-0412	60110	100	62	54	7.80	41.45/6



crucibles CONTINUED**Crucible Holder, Walter**

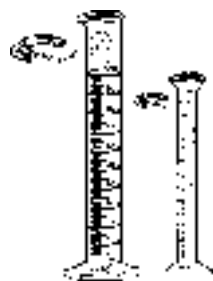
Rubber with glass funnel insert to hold 066-0392, 0394 infilter flasks.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH	PRICE CASE
066-0515	CWS-M290	Plasticoid	8.25	19.77/6

Crucible Holder

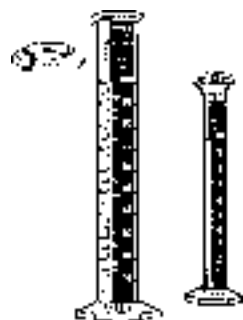
Used for holding 066-0392, 0394 crucibles in 500 ml, 1L filter flasks.

AWS NO	PRICE EACH
066-7536	4.74

cylinders, graduated, "to contain"**PYREX® brand, Single Metric Scale, Graduated—Corning**

Calibrated "to contain," with white enamel graduations. The 100mL capacity is in accordance with ASTM E-133 and E-1272 and is used in ASTM tests D-86, D-216 and D-447. The 10mL size has a funnel top. Bumper guards are supplied with 25mL thru 2000mL sizes inclusive.

AWS NO	SUP. NO.	CAPACITY ML	GRAD INTERVAL	APPROX. OD X HEIGHT	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-8489	3022-10	10	0.1	13 x 178	1	24	10.07	228.48
010-8793	3022-25	25	0.2	18 x 192	1	18	14.78	241.92
010-8985	3022-50	50	1	24 x 225	1	18	15.37	251.46
010-8585	3022-100	100	1	29 x 254	1	12	17.63	199.92
010-8873	3022-250	250	2	39 x 340	1	12	24.37	276.36
010-9049	3022-500	500	5	50 x 390	1	8	34.08	257.68
010-8649	3022-1L	1000	10	65 x 465	1	1	-	51.72
010-8713	3022-2L	2000	20	83 x 520	1	1	-	82.74

**PYREX® brand, Lifetime Red™, Single Metric Scale, Graduated—Corning**

Calibrated "to contain." The scale and figures are durable white enamel, which stand out clearly against the red color-band on these Lifetime Red™ cylinders. The 10mL size has a funnel top. Bumper guards are supplied with 100mL through 2000mL inclusive. The 100mL size is made in accordance with ASTM E-133 and E-1272 and is used in ASTM tests D-B6 and D-216.

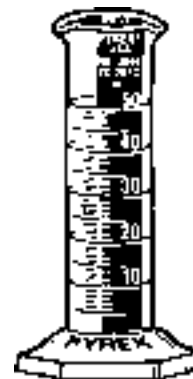
AWS NO	SUP. NO.	CAP. ML	GRAD INTRVL	APPRX. OD X HGHT	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-8465	3042-10	10	0.1	13 x 178	1	24	13.08	296.64
010-8553	3042-100	100	1	29 x 254	1	12	22.36	253.56
010-9017	3042-500	500	5	50 x 390	1	8	41.02	310.08
010-8617	3042-1L	1000	10	64 x 465	1	1	-	61.85
010-8689	3042-2L	2000	20	83 x 520	1	1	-	93.95



cylinders, graduated, "to contain" CONTINUED

PYREX® brand, Lifetime Red™, Single Metric Scale, Double Pourout, Graduated—Corning

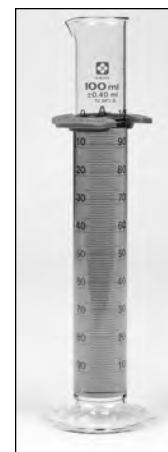
Calibrated "to contain." The scale and figures are durable white enamel which stand out clearly against the red color-band on these Lifetime Red™ cylinders. The cylinder is a Tuttle type of low form for stability and features a double pourout for convenience.



AWS NO	SUP. NO.	CAP. ML	GRAD INTRVL	APPRX. OD X HGHT	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-8953	3044-50	50	1	29 x 148	1	12	23.77	269.52
010-8545	3044-100	100	2	38 x 157	1	12	27.72	314.28

SIBATA brand, Class A, Double Metric Scale, Graduated, "to Contain"

SIBATA Graduated Cylinders meet ASTM E-1 272 Class A, Type I Specifications for Classification, Dimensions, and Tolerances. All cylinders with the exception of the 2000mL size feature protective hexagonal bumper guards.



AWS NO	SUP. NO.	CAP. ML	GRAD INT ML	TOLERANCE ML	APPROX. OD X HEIGHT	QTY/PACK	EACH PRICE	PACK PRICE
471-3404	2351A-5	5	0.1	0.05	7 x 126	4	5.14	20.56
471-3411	2351A-10	10	0.1	0.05	8 x 182	4	5.14	20.56
471-3418	2351A-25	25	0.2	0.15	17 x 210	4	7.30	29.20
471-3425	2315A-50	50	0.5	0.25	24 x 218	4	8.00	32.00
471-3432	2351A-100	100	1	0.4	30 x 236	4	8.95	35.80
471-3439	2351A-250	250	2	1	41 x 301	4	12.23	48.92
471-3446	2351A-500	500	5	2	53 x 362	2	22.32	44.64
471-3453	2351A-1000	1000	10	3	70 x 422	2	39.32	78.64
471-3460	2351A-2000	2000	20	6	90 x 478	1	-	59.00



cylinders, graduated, "to contain" CONTINUED



SIBATA brand, Class B, Double Metric Scale, Graduated, "to Contain"

SIBATA Graduated Cylinders meet ASTM E-1 272 Class B, Type I Specifications for Classification, Dimensions, and Tolerances. All cylinders with the exception of the 2000mL size feature protective hexagonal bumper guards.

AWS NO	SUP. NO.	CAP. ML	GRAD INT ML	TOLERANCE ML	APPROX. OD X HEIGHT	QTY/PACK	EACH PRICE	PACK PRICE
471-3467	2351-10	10	0.1	0.1	8 x 182	4	4.46	17.84
471-3474	2351-25	25	0.2	0.3	17 x 210	4	6.34	25.36
471-3481	2315-50	50	0.5	0.4	24 x 218	4	6.98	27.92
471-3488	2351-100	100	1	0.6	30 x 236	4	7.78	31.12
471-3495	2351-250	250	2	1.4	41 x 301	4	10.65	42.60
471-3502	2351-500	500	5	2.6	53 x 362	2	19.36	38.72
471-3509	2351-1000	1000	10	5	70 x 422	2	34.18	68.36
471-3516	2351-2000	2000	20	10	90 x 478	1	-	53.64

cylinders, graduated, plastic

Cylinders (PMP)—Dynalon®

EXCELLENT CHEMICAL RESISTANCE, HIGH QUALITY

Glass-clear graduated cylinders made of heat resistant, shatterproof PMP. Able to withstand temperatures up to 350°F. Autoclavable with excellent chemical resistance. Meets stringent international quality criteria according to ISO 6706 standards. Tolerances according to DIN 12 680TT, Class B.

AWS NO	SUP. NO.	CAPACITY ML	SUB DIV ML	QTY/PACK	QTY/CASE	EACH PRICE	CASE PRICE
030-9737	237735	10 ml	0.2	1	20	4.11	70.40
030-9769	237745	25 ml	0.5	1	20	4.81	82.28
030-9785	237755	50 ml	1	1	20	6.11	104.50
030-9745	237765	100 ml	1	1	10	11.54	63.75
030-9777	237775	250 ml	2	1	8	11.77	64.15
030-9793	237885	500 ml	5	1	6	15.30	79.85
030-9753	237895	1000 ml	10	1	4	18.83	65.00
030-9761	237915	2000 ml	20	1	4	44.73	120.00



Cylinders, (PP)—Dynalon®

Molded of chemically resistant, translucent polypropylene. Graduations are permanently molded on cylinders and will not fade after repeated autoclaving. Meets stringent international quality criteria according to ISO 6706 standards. Tolerances according to DIN 12 680TT. Class B.

AWS NO	SUP. NO.	CAPACITY ML	SUB DIV ML	QTY/CASE	EACH PRICE	CASE PRICE
030-9801	239005	10 ml	0.2	20	3.41	62.00
030-9833	239015	25 ml	0.5	20	4.48	68.40
030-9849	239025	50 ml	1	20	6.18	95.20
030-9809	239035	100 ml	1	10	8.83	52.40
030-9841	239045	250 ml	2	10	9.50	60.40
030-9857	239055	500 ml	5	8	11.19	67.20
030-9817	239065	1000 ml	10	6	14.83	64.20
030-9825	239075	2000 ml	20	4	34.13	84.70

info

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t.h.e.® Desiccant 8 Mesh, Indicating (8%)—EM Science

AWS NO.	SIZE	QTY/CASE	PRICE EACH	CASE PRICE
DX0014-1	500 g		35.75	—
DX0014-1-004	4 x 500 g	4	—	98.55
DX0014-3	2 kg		122.35	—
DX0014-3-004	4 x 2 kg	4	—	321.50

t.h.e.® Desiccant 8 Mesh, Non-Indicating—EM Science

- SiO_2
 - **D 26**
 - **Molecular Weight: 60.09**
 - **CAS No.: 63231 -67-4**
 - **Beads**
 - **Merck Index 11.4153**
- Physical & Chemical Properties:**
- **Melting Point: 1710°C**
 - **Specific Gravity ($\text{H}_2\text{O} = 1$): 2.2**
 - **Solubility in Water: Insoluble**

AWS NO.	SIZE	QTY/CASE	PRICE EACH	CASE PRICE
DX0013-1	500 g		35.75	—
DX0013-1-004	4 x 500 g	4	—	98.55
DX0013-3	2 kg		122.35	—
DX0013-3-004	4 x 2 kg	4	—	321.50

desiccator, cabinets**Traditional Desiccators—Boekel****MODELS 1340, 1342, AND 1344**

Model 1340 uses Flexboard shelves designed to nest hot crucibles (in 1" holes) while Model 1342 and Model 1344 have expanded stainless steel shelves. Small Desiccators (Models 1340 and 1342) have double action bar locks, hold one pound of desiccant and are stackable. The large Desiccator (Model 1344) /has a triple action bar lock, can hold up to three pounds of desiccant and is stackable. Each desiccator has a manual pressure/vacuum relief valve and is supplied with two shelves and desiccant tray.

AWS NO.	SUP NO.	OVERALL DIM. IN.	CHAMBER DIM.	PRICE EACH
221-3881	1340	12 1/2 x 12 1/4 x 12/4	11 1/2 x 10 x 12	735.00
221-3889	1342	12 1/2 x 12 1/4 x 12/14	11 1/2 x 10 x 12	765.00
221-3873	1344	16 1/2 x 23 x 22 1/4	15 3/4 x 19 3/4 x 21 3/4	1795.00



desiccators, glass



PYREX® brand, Large Size, Knob Top—Corning

Approximate bowl volume is 3800mL on the 200mm size and 7500mL on the 250mm size.
Not for vacuum applications.

AWS NO.	SUP NO.	DESCRIPTION	TOTAL HGT. APPROX.	CHAMBER DEPTH APPROX.	RECOM, PLATE DIS	QTY/CASE	CASE PRICE
011-0441	3080-250	Complete	325	130	230	1	324.04
010-8073	3080-250CO	Cover Only	117	-	-	1	112.55
012-3681	3080-250LO	Lower Only	210	130	230	1	241.47



PYREX® brand, Large Size, Sleeve—Corning

The rugged 55/38 external sleeve with tooled hose connection serves as the stopcock and is designed so that its manipulation is not affected by the vacuum. The open position is indicated by the molded arrow on the cap. A quarter turn from this position closes the desiccator. For ease in use and improved performance, it is recommended that the sleeve be lubricated with a silicone-based vacuum grease. The tubulation O.D. is approximately 70mm. Bowl capacities 3800mL and 7500mL respectively. Rated 1-atmosphere vacuum.

AWS NO.	SUP NO.	DESCRIPTION	TOTAL HGT. APPROX.	CHAMBER DEPTH APPROX.	RECOM, PLATE DIS	QTY/CASE	CASE PRICE
011-0425	3120-250	Complete	325	130	230	1	434.92
010-8057	3120-250CO	Cover Only	117	-	-	1	176.07
012-7585	3120-50	Sleeve Only	35	-	-	1	85.35
011-0369	3120-R0	Ring Only	-	-	-	1	3.82

desiccators, plastic

Space Saver -Vacuum Desiccators—Bel-Art

The polypropylene stopcock has a Teflon® plug which turns easily, allowing a slow, gentle entrance of air to prevent unnecessary turbulence and crucible damage. Stopcock handle is high-visibility red. Port accepts 1/4" (6.4 mm) ID. tubing. Large ribbed knob at top center makes lifting easy. Stopcock does not interfere with grip. O-ring seal does not require grease, but is not harmed if grease is used. Seal is unaffected by low temperatures down to 0°C. Polypropylene plate supplied is 1/8" (3.2 mm) thick with 1/8" diameter perforations for air transfer. Plate rests on the retaining ledge of bottom section and has a center hole for easy removal.

AWS NO.	SUP NO.	DISCRIPTION	INSIDE DIA.	TAKES PLATE	OVERALL HGT.	PRICE EACH
220-9849	F42010-0000	Polypropylene Bottom	149	140	206	40.15
220-9841	F42020-0000	Polypropylene Bottom	197	190	260	54.45
220-9833	F42025-0000	Polypropylene Bottom	240	230	311	75.85
220-9825	F42012-0000	All-Clear Design	149	140	206	40.15
220-9817	F42022-0000	All-Clear Design	197	190	260	54.45
220-9809	F42027-0000	All-Clear Design	240	230	311	75.85



desiccators, plastic CONTINUED

Non-Vacuum Desiccators—Bel-Art

Every bench in the laboratory or classroom can now have its own desiccator. These models are the same as the Vacuum Desiccators, but without the vacuum exhaust port and stopcock. Strong polycarbonate top and polypropylene bottom with an O-ring seal and perforated polypropylene plate.

AWS NO.	SUP NO.	DISCRIPTION	INSIDE DIA.	TAKES PLATE	OVERALL HGT.	PRICE EACH
221-3817	F42030-0000	Non-Vacuum	149	140	206	26.95
221-3809	F42031-0000	Non-Vacuum	197	190	260	40.15
221-3801	F42032-0000	Non-Vacuum	240	230	311	57.15

dishes, evaporating, porcelain

Porcelain Evaporating Dishes

AWS NO.	SUPPLY NO.	CAPACITY (ML)	DIMENSIONS	PACK EACH
066-0461	5020	35	60 x 24 mm	4.55
066-0468	5021	50	70 x 30 mm	5.35
066-0475	5022	80	80 x 34 mm	5.95
066-0482	5023	120	93 x 40 mm	6.75
066-0489	5024	150	100 x 46 mm	8.55

dishes, petri, glass

PYREX® brand, Culture, Petri—Corning

These flat, clear dishes will withstand repeated sterilization (wet or dry). The edges are beaded to provide greater mechanical strength. The bead also provides a means to equally space the side walls of the bottom and cover, thereby reducing the capillary action of condensed moisture on the sides. They are not affected chemically or thermally by any of the methods commonly employed in laboratories where sterilization is a major factor in routine or in specialized work. The covered dish is not airtight. The tops are marked in blue enamel and the bottoms in white enamel to make sorting easier. Bottoms also have a triangular, enamel reference point for serial dilutions.



AWS NO.	SUPPLY NO.	DESCRIPTION	SIZE (MM)	APPROX. O.D. X HT. (MM)	QTY/PACK	PK/PRICE	QTY/CASE	CASE PRICE
011-0745	3160-101	Complete	100 x 15	98 x 15	12	45.52	72	257.76
010-7977	3160-101C0	Cover Only	100 x 15	98 x 15	—	—	12	28.12
010-2713	3160-101B0	Bottom Only	100 x 15	98 x 15	—	—	12	29.43

dishes, petri, plastic

Plastic Petri Dishes, Disposable, Sterile, Optically Clear, Flat Bottom

MOLDED FROM HIGH CLARITY, POLYSTYRENE. STERILIZED.

AWS NO.	SUPPLY NO.	DESCRIPTION (MM)	QTY/SLEEVE	QTY/CASE	CASE PRICE
040-4905	PD1905-500S	100 X15 Stacking	20	500	79.43



dishes, petri, plastic CONTINUED

Plastic Petri Dishes, With or Without Pads

AWS NO.	SUPPLY NO.	DESCRIPTION	DIMENSION (MM)	QTY/CASE	CASE PRICE
040-1010	PD-1	Sterile Petri Dishes	50 x 11	100	32.15
040-1008	PD-1	Sterile Petri Dishes	50 x 11	500	97.50
040-1012	PD-2	Sterile Petri Dishes with pads	50 x 11	100	35.00
040-1014	PD-2	Sterile Petri Dishes with pads	50 x 11	500	102.75

dispensers

Dispensette® III, Digital-adjustable, Easy Calibration—BrandTech



AWS NO.	SUP NO.	VOLUME ML	SUBDIVISION ML	A* ≤ ± %	PRICE EACH
221-4593	4701-341	1–10	0.05	0.5	345.00
221-4601	4701-351	2.5–25	0.1	0.5	465.00
221-4609	4701-361	5–50	0.2	0.5	475.00

Dispensette® III, Analog-adjustable—BrandTech

The Dispensette bottletop dispenser is so popular because of its safety features and wide range of applications. Through many generations of product improvements, the Dispensette has responded to the increasing demands of the laboratory. The new generation of Dispensette - the Dispensette III - sets new standards again. The proven mechanism has been optimized and new features added that bring improved safety and performance to laboratory dispensing.

AWS NO.	SUP NO.	VOLUME ML	SUBDIVISION ML	A* ≤ ± %	PRICE EACH
221-4641	4701-141	1–10	0.2	0.5	305.00
221-4673	4701-151	2.5–25	0.5	0.5	425.00
221-4689	4701-161	5–50	1.0	0.5	445.00
221-4649	4701-171	10–100	1.0	0.5	705.00

dissecting, scissors

Utility Shear

- Multi Purpose Shear with Stainless Steel blades and Plastic Handle.
- One blade is serrated for cutting materials from wire to bone.
- Blade and Handle Autoclavable to 120° C.

AWS NO.	SUP. NO.	SIZE	PRICE EACH
063-5932	310-340	BLADE 2" (50 mm)	6.55



Glass Microfiber. GF Series—Whatman

GF/A (1.6 μ M)

Offers fine particle retention and high flow rate, as well as good loading capacity. Used for high efficiency general purpose laboratory filtration, including water pollution monitoring of effluents, for filtration of water, algae and bacteria cultures, foodstuff analyses, protein filtration and radioimmunoassay of weak B emitters.

Recommended for gravimetric determination of airborne particulates, stack sampling and absorption methods of air pollution monitoring.

GF/C (1.2 μ M)

Slightly more retentive than GF/A and 934-AH. Combines fine particle retention with good flow rate.

The standard filter in many parts of the world for the collection of suspended solids in potable water and natural and industrial wastes.

Fast and efficient clarification of aqueous liquids containing low to medium levels of fine particulates can be carried out in the laboratory. Used in cell harvesting and liquid scintillation counting techniques where more retentive medium loading capacity filters are required.

GF/D (2.7 μ M)

Considerably faster in flow rate and overall filtration speed than cellulose filter papers of similar particle retention. The filter is thick and consequently exhibits a high loading capacity. Designed as a membrane prefilter and available in sizes to fit most holders. GF/D will provide good protection for finely retentive membranes. Can be used in combination with GF/B to provide very efficient graded prefilter protection for membranes.

GRADE 934-AH (1.5 μ M)

The fine particle retention of this popular grade is superior to any cellulose filter of similar speed and is capable of high retention efficiency at high flow rates. The loading capacity, like all glass microfiber filters, is high. Grade 934-AH is used for a wide range of laboratory applications. It is most frequently used in water pollution monitoring techniques for suspended solids and is specified in official methods. Grade 934-AH also finds significant applications in cell harvesting and liquid scintillation counting techniques and in air pollution monitoring.



AWS NO.	SUP. NO.	DIA CM	GRADE/CIRCLES	QTY/PACK	PACK PRICE
561-5644	1823-021	2.1	GF/D Circles	100	21.45
561-1220	1827-021	2.1	934-AH	100	15.15
561-5462	1822-024	2.4	GF/C Circles	100	39.45
561-1234	1827-024	2.4	934-AH	100	16.55
561-5126	1820-037	3.7	GF/A Circles	100	21.15
561-5679	1823-037	3.7	GF/D Circles	100	25.05
561-5315	1821-037	3.7	934-AH	100	44.65
561-5497	1822-042	4.25	GF/C Circles	100	44.95
561-1318	1827-042	4.25	934-AH	100	24.85
561-5511	1822-047	4.7	GF/C	100	56.85
561-5693	1823-047	4.7	GF/D	100	31.75

AWS NO.	SUP. NO.	DIA CM	GRADE/CIRCLES	QTY/PACK	PACK PRICE
561-1332	1827-047	4.7	934-AH	100	29.35
561-5168	1820-055	5.5	GF/A Circles	100	26.75
561-5546	1822-055	5.5	GF/C Circles	100	61.25
561-1353	1827-055	5.5	934-AH	100	32.25
561-1360	1827-070	7	934-AH	100	39.50
561-5203	1820-090	9	GF/A Circles	100	47.40
561-5560	1822-090	9	GF/C Circles	100	107.85
561-5721	1823-090	9	GF/D Circles	25	21.35
561-1388	1827-090	9	934-AH	100	51.15
561-5728	1823-110	11	GF/D Circles	25	28.95
561-1423	1827-110	11	934-AH	100	72.85

Gravi-Seal Analytical Funnel—Osmonics



- **One-handed operation**
- **Only two parts, no expensive replacement accessories**
- **No clamps, wheel locks, or magnets to wear out**
- **Solid, stable and easy to use**
- **Large membrane access points for forceps**

MSI's new, reusable Gravi-Seal Analytical Funnel combines a number of key features and benefits, making it a tremendous value. To begin with, the funnel has only two pieces. There are no clamps or locking devices to manipulate. A unique gravity sealing design allows to one-handed operation with no danger of filter bypass or sample leakage. And it is stable and very solid with no costly replacement parts. It all adds up to the easiest and most cost efficient analytical funnel available.

Both the funnel and base are manufactured of polysulfone which is autoclavable and chemically resistant. There are graduations up to 350ml with 50ml intervals. The #8 silicone rubber stopper mounts in a standard 1 liter filtering flask for individual tests or in three land six place stainless steel manifolds for multiple tests run concurrently.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
562-0752	PFC0004701	Complete Unit	120.00
562-0759	PFF0004701	Funnel	62.00
562-0766	PFB0004701	Base	62.00

Filter Holder, SIBATA brand Glass Microanalysis, 47mm



AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
471-3616		Complete Funnel w/glass frit	130.00
562-5900	6168-4711	Funnel, 47 mm, 300 ml	50.40
562-5907	6168-4721	Glass Support Base, for Stainless Steel Screen, 47 mm	28.77
562-5914	6168-4722	Glass Support Base, Fritted, 47 mm	38.72
562-5921	6168-4731	Stainless Steel Screen (SU316)	35.69
562-5928	6168-4741	PTFE Gasket (10 pk)	8.70
066-0356	6168-4751	No. 8 Silicone Stopper (fits 1000 ml Flask)	9.90
066-0363	6168-4751N	No. 6 Neoprene Stopper (fits 250 ml Flask)	2.53
066-0370	6168-4752N	No. 7 Neoprene Stopper (fits 500 ml Flask)	2.53
066-0377	6168-4753N	No. 8 Neoprene Stopper (fits 1000 ml Flask)	2.53
066-0384	6168-4762	Anodized Aluminum Clamp	20.58

Vacuum Type Glass Holders—Whatman

These holders are made from borosilicate glass and can be rapidly disassembled for cleaning, leading and autoclaving. The choice of sintered glass frit filter supports (recommended for filtration and biological analysis) or 304 stainless steel supports (recommended for proteinaceous solutions) permit filtration of a wide range of aqueous and organic solvents.

Model FG 47TF has a separate PTFE gasket that fits around the outer edge of the support screen, allowing autoclaving of the membrane in place by preventing it from sticking to the ground glass surface. The gasket will not chip or flake, as compared with conventional PTFE coated glass flanges.

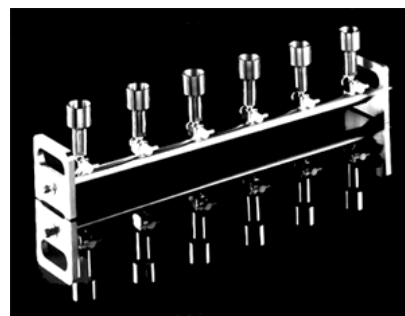
Key applications include general laboratory microfiltration; quality control and sterility testing of pharmaceuticals, beverages, food, beer, wine, water and wastewater; and removal of particles from HPLC solvents.

AWS NO.	SUP. NO.	FILTER DIA MM	MODEL	RES. CAP	PREFILTER DIA	DESCRIPTION	PRICE EACH
560-7762	1960-052	25	FG25S	25	16 mm	Stainless Steel Screen	212.25
560-9407	1960-054	47	FG47S	300	35 mm	Stainless Steel Screen	222.05

Filtration Manifold—Whatman

Type 304 stainless steel manifold allow independent usage of any one port with a PTFE stopcock. It is autoclavable, sturdy and resistant to most chemicals. Available in a 6-port model, the manifold accommodates 25 mm and 47 mm funnels. Typical applications include bacteriological sampling for total coliform, fecal coliform and fecal streptococci; and sterility testing of pharmaceuticals and nucleic acid analysis.

AWS NO.	SUP. NO.	SIZE	MODEL	DESCRIPTION	PRICE EACH
561-6645	1960-516	6-port	M56 S/S	Accommodates 25 mm and 47 mm Funnels	1625.00



filtration, hardware, manifolds pvc (mfs)

PVC Manifolds

APPLICATIONS

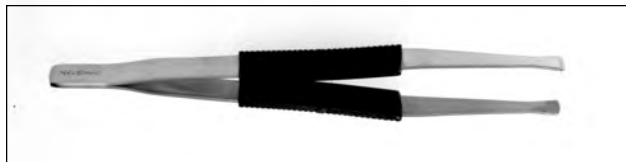
The Filter Holder Manifold is used for testing multiple samples by vacuum filtration. Manifold will accommodate all vacuum filtering devices that will accept a No. 8 stopper.

FEATURES

Lightweight manifolds are designed to maximize use of lab space. Each branch of the manifold has a 2-way valve to control vacuum for each individual filter holder. PVC manifolds are resistant to acids but are not autoclavable.

AWS NO.	SUP. NO.	MATERIAL	PRICE EACH
561-6648	313400	KMP3	545.00
561-6650	313600	KMP6	1015.00

Filter Forcep



4-1/2" (114 mm) Stainless Steel Forcep with polypropylene finger grips and straight, flat tips, for handling membranes.

AWS NO.	SUP.NO.	SIZE	PRICE EACH
561-4895	300-025	Filter Forcep	6.15

Cameo 50F: 50mm Teflon In-Line Filter—Osmonics



The Cameo 50F is a 50mm in-line filter designed to sterilize and clarify most aggressive solvents, acid and base samples up to 2 liters. This unit can also be used as an air vent or in-line moisture barrier to protect instruments and culture vessels.

- The membrane filter in the Cameo 50F is our naturally hydrophobic PTFE which is autoclavable and will not release any extractables into the sample.
- The housing is manufactured of pure polypropylene which is autoclavable.
- The inlet/outlet connections are stepped hose barbs of 3/8" to 1/4" with an internal female Luer taper.
- Filter: TefSep PTFE
- Housing: Polypropylene
- Filter Diameter: 50 mm
- Filtration Area: 20 cm²
- Hold-Up Volume: <1ml
- Maximum Operating Temperature: 180°C
- Maximum Operating Pressure: 60 psi
- Connections: Stepped hose barbs 3/8" to 1/4" with internal Female Luer taper

AWS NO.	SUP. NO.	PORE SIZE	QTY/PACK	PACK PRICE
562-0857	DDF04T5010	0.45µm	10	99.10

filtration, membrane filters, packaged filters (mfs)

Mixed Esters of Cellulose

AWS NO.	SUP. NO.	DESCRIPTION	PORE SIZE (μm)	QTY/PACK	PACK PRICE
560-1003	A045H047 A	Membrane Filter 47mm, Grid, White, Indiv. Wrapped	0.45	100	45.55
560-1005	A045H047 Y	Membrane Filter 47mm, Grid, White, Indiv. Wrapped	0.45	200	89.00
560-1015	A045F047 A	Membrane Filter 47mm, Grid, White, Indiv. Wrapped w/pad	0.45	100	58.75
560-1016	A045D047A	Membrane Filter 47mm, Grid, White, Indiv. Wrapped Multipacks 10x0	0.45	100	57.15

1 PS Phase Separator Paper—Whatman

The Whatman 1 PS Phase Separator is a high grade filter paper impregnated with a stabilized silicone that renders it hydrophobic, retaining the aqueous phase and passing the solvent phase through.

AWS NO.	SUP. NO.	DIA. (CM)	QTY/PACK	PACK PRICE
560-6446	2200-110	11	100	31.50
560-6453	2200-125	12.5	100	39.70
560-6460	2200-150	15	100	55.55



filtration, qualitative filter paper

Standard Grades—Whatman

GRADE 1 (11 μM)

The most widely used filter paper in the Whatman range. Medium retention and flow rate. Extended range of circle sizes from 2 to 50 cm diameter. Sheets and strips also available.

GRADE 2 (8 μM)

Slightly more retentive than No. 1 with a corresponding increase in filtration time (i.e., slightly slower filtration speed). More absorbent than No. 1. Also available in folded (prepleated) form as Grade 2V.

GRADE 4 (20-25 μM)

Extremely fast filtering with excellent retention of coarse particles and gelatinous precipitates such as ferric hydroxide and aluminum hydroxide. Very useful as a rapid filter for routine cleanup of biological fluids or organic extracts during analysis.

GRADE 5 (2.5 μM)

The maximum degree of fine particle filtration in the qualitative range. Capable of retaining the fine precipitates encountered in chemical analysis. Slow flow rate.

AWS NO.	SUP. NO.	DIA. (CM)	GRADE	QTY/PACK	PACK PRICE	AWS NO.	SUP. NO.	DIA. (CM)	GRADE	QTY/PACK	PACK PRICE
560-4766	1001-070	7	1	100	5.45	560-8525	1004-070	7	4	100	6.85
560-4801	1001-090	9	1	100	6.65	560-8532	1004-090	9	4	100	7.95
560-4591	1001-110	11	1	100	7.95	560-8805	1004-110	11	4	100	10.05
560-4598	1001-125	12.5	1	100	8.45	560-8868	1004-125	12.5	4	100	13.45
560-4612	1001-150	15	1	100	12.85	560-8917	1004-150	15	4	100	16.15
560-4626	1001-185	18.5	1	100	18.65	560-8938	1004-185	18.5	4	100	25.40
560-6614	1002-090	9	2	100	6.85	560-9862	1005-070	7	5	100	7.45
560-6971	1002-110	11	2	100	9.35	560-9883	1005-090	9	5	100	10.58
560-6992	1002-125	12.5	2	100	12.05	561-0044	1005-110	11	5	100	13.85
560-6999	1002-150	15	2	100	16.25	561-0051	1005-125	12.5	5	100	17.10
560-7006	1002-185	18.5	2	100	22.23	561-0058	1005-150	15	5	100	24.55
						561-0065	1005-185	18.5	5	100	35.75



filtration, quantitative filter paper

Ashless Grades (Ash 0.007%)—Whatman



GRADE 40 (8 μM)

The classic general purpose ashless filter paper with medium speed and retention. Typical applications include gravimetric analysis for numerous components in cements, clays, iron and steel products; as a primary filter for separating solid matter from aqueous extracts in general soil analysis, quantitative determination of sediments in milk and as a pure analytical grade clean up-filter for solutions prior to AA spectrophotometry. Used also as a high purity filter in the collection of trace elements and radio, nuclides from the atmosphere.

GRADE 41 (20-25 μM)

The fastest ashless filter paper, recommended for analytical procedures involving coarse particles or gelatinous precipitates (i.e., iron or aluminum-hydroxides). Also used in quantitative air pollution analysis as a paper tape for impregnation when determining gaseous compounds at high flow rates.

GRADE 42 (2.5 μM)

A world standard for critical gravimetric analysis with the finest particle retention of all Whatman cellulose filter papers. Typical analytical precipitates include barium sulfate, metastannic acid and finely precipitated calcium carbonate.

AWS NO.	SUP. NO.	GRADE	DESCRIPTION	SIZE	QTY/PACK	PACK PRICE
560-8602	1440-070	40	Circles	7	100	17.10
560-8609	1440-090	40	Circles	9	100	23.15
560-8630	1440-110	40	Circles	11	100	28.05
560-8637	1440-125	40	Circles	12.5	100	32.35
560-8644	1440-150	40	Circles	15	100	41.35
560-8651	1440-185	40	Circles	18.5	100	60.25
560-8784	1441-070	41	Circles	7	100	16.15
560-8791	1441-090	41	Circles	9	100	22.05
560-8826	1441-110	41	Circles	11	100	26.35
560-8833	1441-125	41	Circles	12.5	100	30.55
560-8840	1441-150	41	Circles	15	100	41.25
560-8854	1441-185	41	Circles	18.5	100	60.15
560-9022	1442-070	42	Circles	7	100	18.20
560-9029	1442-090	42	Circles	9	100	24.95
560-9043	1442-110	42	Circles	11	100	29.85
560-9050	1442-125	42	Circles	12.5	100	33.15
560-9057	1442-150	42	Circles	15	100	41.75
560-9064	1442-185	42	Circles	18.5	100	61.05

filtration, quantitative filter paper CONTINUED

Hardened Ashless Grades (Ash 0.006%)— Whatman

These are the supreme quantitative filter papers featuring high wet strength and chemical resistance. These papers are acid hardened, which reduces ash to an extremely low level. Their tough surfaces make them suitable for a wide range of critical analytical filtration operations. Each grade offers a convenient combination of filtration speed and particle retention.

GRADE 541 (20-25 μ M)

Fast filtration of coarse particles and gelatinous precipitates in acid/alkali solutions during gravimetric analysis. Typical applications include fiber in animal foodstuffs, gelatin in milk and cream, chloride in cement, and chloride and phosphorous in coal and coke.

AWS NO.	SUP. NO.	DESCRIPTION	GRADE	SIZE (CM)	QTY/PACK	PACK PRICE
561-0436	1541-070	Circles	541	7	100	17.20
561-0457	1541-090	Circles	541	9	100	23.85
561-0478	1541-110	Circles	541	11	100	27.15
561-0485	1541-125	Circles	541	12.5	100	31.95
561-0492	1541-150	Circles	541	15	100	45.65
561-0499	1541-185	Circles	541	18.5	100	67.95

flasks, erlenmeyer

PYREX® brand, Erlenmeyer, Narrow Mouth, Heavy Duty Rim, Graduated—Corning

Approximate graduations are in durable white enamel.
An extra large marking space is also provided. Heavy durable top tooling.



AWS NO.	SUP. NO.	CAPACITY	RUBBER STOPS	APPROX. O.D. X HGT.	QTY/PK	QTY/CASE	EACH PRICE	PRICE/PACK	PRICE/CASE
011-2937	4980-25	25 ml	0	41 x 85 mm	12	48	3.88	-	141.12
011-3785	4980-50	50 ml	1	51 x 78 mm	12	48	3.88	37.28	141.12
011-2201	4980-125	125 ml	5	67 x 114 mm	12	48	3.71	37.28	134.40
011-3257	4980-250	250 ml	6	82 x 132 mm	12	48	3.86	35.58	139.68
011-4265	4980-500	500 ml	7	101 x 176 mm	6	36	4.84	37.02	131.76
011-2025	4980-1L	1000 ml	9	129 x 216 mm	1	24	-	6.51	143.28
011-2713	4980-2L	2000 ml	10	160 x 268 mm	1	8	-	14.70	111.12

flasks, erlenmeyer CONTINUED



PYREX® brand, Erlenmeyer, Heavy Duty Rim, Wide Mouth, Graduated—Corning

A wide mouth flask especially recommended for use as a titration flask. For convenience, these flasks are graduated to show the approximate capacity and have an extra large marking spot.

AWS NO.	SUP. NO.	CAPACITY	RUBBER STOPS	APPROX. O.D. X HGT.	QTY/PK	QTY/CASE	PRICE EACH	PRICE/PACK	PRICE/CASE
011-2185	5100-125	125 ml	6	50-125 ml	12	48	4.35	41.73	157.92
011-3249	5100-250	250 ml	8	50-200 ml	12	48	4.62	44.34	167.52
011-4241	5100-500	500 ml	10	100-500 ml	6	36	5.80	27.86	158.04
011-2009	5100-1L	1000 ml	11	250-100 ml	6	24	9.70	46.56	175.92
011-2705	5100-2L	2000 ml	13	400-1600 ml	1	8		14.99	110.00



BOMEX brand, Erlenmeyer Narrow Mouth, Heavy-Duty Rim, Graduated

AWS NO.	SUP. NO.	CAPACITY	QTY/PK	PACK PRICE	QTY/CASE	CASE PRICE	EACH PRICE
471-3551	1800-125	125	12	20.40	96	163.20	2.15
471-3558	1800-250	250	12	23.16	72	138.96	2.45
471-3565	1800-500	500	6	14.22	48	113.76	2.85
471-3572	1800-1000	1000	6	25.56	24	102.24	6.75

Erlenmeyer Flask (PP)—Dynalon



Heavy Duty- Low Price-Molded of chemically resistant, autoclavable polypropylene. Graduations are permanently molded into flask.

AWS NO.	SUP. NO.	CAPACITY	QTY/CASE	CASE PRICE
031-0985	241305	50 ml	12	48.95
031-0969	241325	125 ml	12	53.13
031-0977	241345	250 ml	6	34.76
031-0993	241365	500 ml	4	33.11
031-0961	241385	1000 ml	2	22.66



flasks, filtering flasks

PYREX® brand, Filtering, Heavy Wall, Tubulation, Graduated—Corning

These flasks, with tubulation, are blown in special molds, in shapes designed to give maximum mechanical strength. For convenience, the flasks are graduated to show approximate capacity. The neck finish affords an excellent fit for rubber stoppers. Tubulation O.D. on sizes up to 1000 ml is 10 mm. Tubulation O.D. for 2000 ml and 4000 ml is 12.5 mm.



AWS NO.	SUP. NO.	CAPACITY	RUBBER STOPS	APPROX. O.D. X HGT.	PRICE EACH	QTY/PK	PRICE/PACK	QTY/CASE	PRICE/CASE
011-4225	5340-500	500	7	106 x 184	18.75	6	90.00	18	256.32
011-1985	5340-1L	1000	8	137 x 238	43.20	6	259.25	12	362.52
011-2689	5340-2L	2000	9	137 x 238	-	1	63.33	12	719.88

Filtering Flasks with Tubulation— Bel-Art

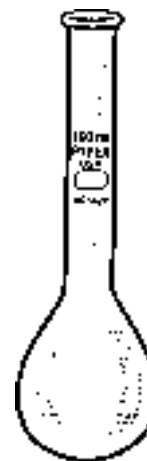
Side-arm is at 45 degree angle downward to prevent tipping.

AWS NO.	SUP. NO.	CAPACITY	EACH PRICE
031-5209	H38940-0000	500 ml	12.97
031-5217	H38941-0000	1000 ml	13.53



PYREX® brand, Kjeldahl, Round Bottom, Long Neck—Corning

Of all the common laboratory test methods, the Kjeldahl method for determining nitrogen subjects the boiling flask to the most severe thermal and chemical abuse. These Kjeldahl flasks, specially styled, have tooled finished necks for extra strength and uniform stopper fit. Wall thickness is controlled to offer the optimum balance between thermal shock and chemical resistance. Can be used in ASTM E-258 procedure. Care must be taken to ensure the bottoms of the flasks do not come in contact with the heating elements. Most Kjeldahl equipment manufacturers have ring supports for this purpose. Reference: ASTM E- 1377.



AWS NO.	SUP. NO.	CAPACITY	RUBBER STOPS	APPROX. O.D. X HGT.	QTY/PK	PRICE/PACK	QTY/CASE	PRICE/CASE
011-1649	5420-100	100 ml	2	55 x 210 mm	6	55.79	24	211.44
011-4217	5420-500	500 ml	6	101 x 324 mm	6	79.33	24	300.48
011-4473	5420-800	800 ml	7	117 x 365 mm	6	80.15	18	230.58



flask, volumetric



PYREX® brand, Lifetime Red™, Volumetric, Class A, Snap-Cap, Graduated, Calibrated "to contain"—Corning

The capacity mark is a fine line etched through a narrow red band into clear glass, making a filter unnecessary and giving high legibility accuracy and permanence. Snap-caps supplied with all sizes.

AWS NO.	SUP. NO.	CAPACITY	SNAP CAP NO.	APPROX. O.D. X HGT.	PRICE EACH	QTY/PACK	PACK PRICE	QTY/CASE	CASE PRICE
011-3001	5600-25	25	25	40 x 100	17.20	6	82.53	12	156.00
011-3849	5600-50	50	50	51 x 130	16.43	6	78.87	12	149.04
011-1617	5600-100	100	100	60 x 160	20.12	6	96.60	12	149.04
011-2537	5600-200	200	200	74 x 198	22.02	6	105.70	12	173.76
011-3321	5600-250	250	250	78 x 225	23.54	6	113.01	12	198.48
011-4193	5600-500	500	500	100 x 259	28.63	6	137.41	12	259.68
011-1833	5600-1L	1000	1300	125 x 310	-	1	29.55	6	165.12
011-2657	5600-2L	2000	2000	158 x 357	-	1	44.30	4	167.44



PYREX® brand, Volumetric, Class A, PYREX® Stopper—Corning

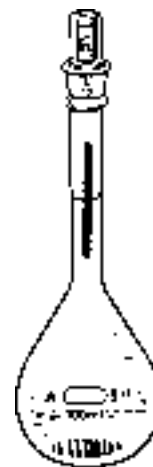
The strength of these flasks has been increased appreciably through machine-blown bodies to which are sealed heavy-tubing necks tooled for ~glass stoppers. The graduation line is sharp and permanent and large white block letters make the inscription easy to read. The 1mL and 2mL sizes are test tube shaped. Sizes 3L thru 6L have ~pennyhead stoppers.

AWS NO.	SUP. NO.	CAPACITY	STOPPER NO.	APPROX. O.D. X HGT.	PRICE EACH	QTY/PACK	PACK PRICE	QTY/CASE	CASE PRICE
011-4793	5640-25	25	9	40 x 121	25.01	6	120.07	12	226.92
011-4833	5640-50	50	9	51 x 151	25.20	6	125.95	12	241.92
011-4753	5640-100	100	13	60 x 181	28.44	6	136.49	12	258.00
011-4777	5640-200	200	13	74 x 214	33.13	6	159.04	12	298.08
011-4801	5640-250	250	16	78 x 262	35.48	6	170.30	12	321.84
011-4841	5640-500	500	19	100 x 287	44.00	6	211.24	12	399.24
011-4761	5640-1L	1000	22	126 x 342	-	1	48.65	6	241.80
011-4785	5640-2L	2000	27	158 x 388	-	1	53.89	4	203.68



**PYREX® brand,
Lifetime Red™,
Volumetric,
Class A,
PYREX
Stopper—
Corning**

The capacity mark is a fine line etched through a narrow red band into clear glass, making a filter unnecessary and giving high legibility accuracy and permanence. With Stopper. Calibrated “to contain.”



AWS NO.	SUP. NO.	CAPACITY	STOPPER NO.	APPROX. O.D. X HGT.	PRICE EACH	QTY/PACK	PACK PRICE	QTY/CASE	CASE PRICE
011-2953	5660-25	25 ml	9	40 x 122 mm	24.88	6	119.46	12	266.92
011-3809	5660-50	50 ml	9	51 x 152 mm	26.66	6	127.99	12	241.92
011-1577	5660-100	100 ml	13	60 x 182 mm	28.44	6	136.49	12	258.00
011-2513	5600-200	200 ml	13	74 x 214 mm	32.86	6	157.74	12	298.08
011-3289	5660-250	250 ml	18	78 x 253 mm	35.48	6	170.30	12	321.84
011-4161	5660-500	500 ml	19	100 x 289 mm	44.00	6	211.24	12	399.24
011-1793	5660-1L	1000 ml	22	129 x 344 mm	-	1	48.65	6	241.80
011-2633	5660-2L	2000 ml	27	158 x 390 mm	-	1	62.42	4	235.96

**SIBATA brand,
Volumetric,
Class A,
Snap-Cap,
To Contain**

AWS NO.	SUP. NO.	CAPACITY	EACH PRICE	QTY/PACK	PACK PRICE	QTY/CASE	CASE PRICE
471-3600	2030A-10	10 ml	6.85	6	34.86	72	418.32
471-3607	2303A-25	25 ml	8.10	6	44.10	72	529.20
471-3614	2303A-50	50 ml	15.10	4	30.44	48	365.28
471-3621	2303A-100	100 ml	17.33	4	32.28	48	387.36
471-3628	2303A-200	200 ml	18.45	4	40.56	24	243.36
471-3635	2303A-250	250 ml	20.63	4	46.52	24	279.12
471-3642	2303A-500	500 ml	25.78	2	28.08	12	168.48
471-3649	2303A-1000	1000 ml	33.05	2	34.74	8	138.96



funnels, buchner

Buchner Funnel (PP)—Dynalox



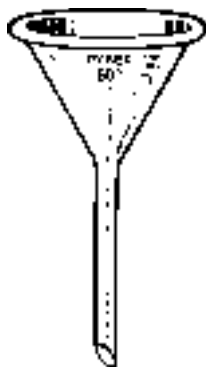
Molded of polypropylene. Unbreakable and resistant to corrosion and heat. Are easily separated for cleaning. Can be used without risk with Erlenmeyer flasks. Optional disks for funnels sold separately.

AWS NO.	SUP. NO.	FILTER PAPER SIZE (MM)	EACH PRICE	QTY/CASE	CASE PRICE
030-8233	242835-055	55	7.80	8	49.94
030-8241	242835-070	70	9.72	6	46.64
030-8249	242835-090	90	14.26	4	45.35
030-8201	242835-110	110	23.51	4	75.24
030-8209	242835-150	150	33.45	4	107.03

Funnel, Buchner, Fixed Plate—Porcelain

AWS NO.	SUP. NO.	AREA DIAMETER (MM)	FILTER PAPER SIZE (CM)	PLATE (MM)	EACH PRICE
560-1563	5041	51	5.5	60	17.56
560-1565	5042	65	7.0	80	20.04
560-1573	5043	75	9.0	95	23.10
560-1571	5044	97	110	116	43.32

funnels, filtering, glass



PYREX® brand, Fluted, 60° Angle, Short Stem—Corning

Supplied with short stems. Depressed inside flutings further decreases filtering time.

AWS NO.	SUP. NO.	APPROX. TOP INSIDE DIA.	APPROX. LENGTH	PRICE EACH	QTY/PACK	PACK PRICE	QTY/CASE	CASE PRICE
012-0145	6180-65	65 mm	121 mm	8.90	12	85.41	48	329.28
012-0217	6180-75	75 mm	139 mm	9.65	12	92.61	48	356.64
011-9257	6180-100	100 mm	190 mm	12.45	6	59.78	24	230.40



PYREX® brand, Plain, Filling, Powder—Corning

With a short stem.
For use in transferring powders or filling bottles.

AWS NO.	SUP. NO.	APPROX. STEM LENGTH	TOTAL LENGTH	PRICE EACH	QTY/PACK	PACK PRICE	QTY/CASE	CASE PRICE
011-9249	6220-100	30 x 20	120 mm	11.25	6	54.02	24	208.08
011-9433	6220-125	35 x 25	132 mm	21.75	6	104.38	12	201.12
011-9489	6220-150	35 x 30	157 mm	44.89	6	215.48	12	408.96



Long Stem, Polypropylene—Bel-Art

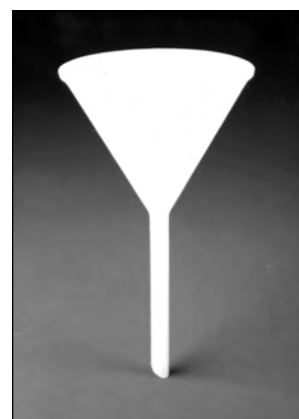
Heavy-duty, long stem funnels have smooth walls, 60° cone angle, and external ribs to prevent air lock. Steam autoclavable at 250°F (121°C).



AWS NO.	SUP. NO.	STEM LGTH.	STEM	FILTER DIA.	QTY./PACK	PACK PRICE	QTY./CASE	CASE PRICE
030-4217	F14671-0000	70 mm	10	110/125	6	10.95	24	41.00
030-2721	F14672-0000	108 mm	10	150/185	4	10.51	16	39.40

Standard Stem, Polypropylene—Bel-Art

These 60 degree angle funnels feature the exclusive filter-step internal design for speedier filtrations. External ribs prevent airlock. The parallel stem measures about 8 mm O.D. Steam autoclavable at 250°F (121°C).



AWS NO.	SUP. NO.	STEM LGTH.	FILTER DIA.	QTY./PACK	PACK PRICE	QTY./CASE	CASE PRICE
031-1393	F14676-0065	65 mm	110	12	19.20	36	53.85
031-1401	F14676-0075	75 mm	125	6	13.75	36	77.10
031-1409	F14676-0100	100 mm	185	4	14.30	24	80.40

Powder Funnels, Polypropylene—Bel-Art

Steam autoclavable at 250°F (121°C) Parallel stem minimizes bridging of powder. 60 degree angle.



AWS NO.	SUP. NO.	STEM LGTH. (MM)	PRICE EACH	QTY./PACK	PACK PRICE	QTY./CASE	CASE PRICE
031-1369	H14660-0100	100	4.51	6	16.37	24	61.80
031-1377	H14660-0150	150	5.70	4	15.10	24	83.34

funnels, filtering, plastic



Laboratory Type, Heavy Duty—Bel-Art

Heavy duty with ridges to prevent vapor lock.
Highly recommended for continuous laboratory work. Steam autoclavable at 250°F(121°C).

AWS NO.	SUP. NO.	STEM LGTH. (MM)	TOTAL LENGTH (MM)	PRICE EACH	QTY/PACK	PACK PRICE	QTY/CASE	CASE PRICE
031-1329	F14696-0000	44.5	104.8	7.70	6	36.96	72	414.60
031-1337	F14697-0000	79.7	177.8	9.51	3	22.83	24	170.80
031-1345	F14698-0000	69.9	187.3	9.83	3	23.60	24	177.60

furnaces

Small Benchtop Muffle Furnace —Barnstead/Thermolyne



- Automatic control offers simple, reliable operation at the touch of a button. Temperature is set by depressing "push 10 set temperature" button and turning knob.
- Display reads chamber temperature or setpoint temperature when "push to set temperature" button is depressed
- Ceramic fiber insulation permits faster heat-up, reduces energy consumption.
- Embedded heating element on top and both sides improves chamber gradient.
- Drop-down door doubles as a convenient shelf for loading and unloading.
- Door safety switch removes power from the heating elements upon opening the door
- If sensor opens, sensor break protection removes power to heating elements, eliminating run away conditions.

TYPE FB/1315 M

Chamber Dimensions: 4"(10.3) x 3.8"(9.8) x 5.0"(13)

Overall Dimensions: 9"(23) x 14" (36) x 13"(33)

Weight Lbs (kg): 16.5 (7.5)

Chamber Cubic In. (liters): 76(1.3)

Temp Control Group: A

TYPE FB/1415 M

Chamber Dimensions: 4.7"(11.9) x 4.9"(12.5) x 5.6"(14.3)

Overall Dimensions: 10"(25) x 14.5" (37) x 15.8"(40)

Weight Lbs (kg): 26 (11.7)

Chamber Cubic In. (liters): 129(2.1)

Temp Control Group: A

AWS NO.	SUP. NO.	VOLTS	AMPS	WATTS	TEMP CONTROL GROUP	PRICE EACH
221-7177	FB1315M	120	8.8	1050	A	788.70
221-7169	FB1415M	120	12.5	1500	A	971.30

Temperature Control Group: Basic Automatic Digital Control



glass tubing and rod

PYREX® brand, Laboratory Tubing—Corning

2 to 32 mm O.D. sizes are 1219 mm long \pm approximately 6mm. 2 to 4 mm O.D. have ends cut, while 6 to 32mm sizes have ends fire polished.

35 to 178 mm O.D. sizes are 1226 mm long \pm approximately 6mm. 35 mm have ends cut only. 38 to 120 mm sizes have trimmed and glazed ends. 125 to 178 mm have ends trimmed.

AWS NO.	SUP. NO.	SIZE O.D.	WALL	APPROX LBS./FT.	PIECES/CASE	QTY/CASE	CASE PRICE
013-4649	234060	6mm	1mm	0.023	271	1	271.96
013-4673	234070	7mm	1mm	0.028	223	1	271.96
013-4697	234080	8mm	1mm	0.033	189	1	271.96
013-4721	234090	9mm	1mm	0.038	164	1	271.96
013-4321	234100	10mm	1mm	0.042	148	1	271.96

Also sold in 1# packs 2' lengths. Please call for pricing.

gloves, extreme temperature

NOVATEX™ Mittens, Non-Asbestos High-Temperature—Bel-Art

Indispensable around ovens, furnaces, gas burners, and torches, Novatex™ Aramid cloth mittens provide exceptional protection against extremely hot objects up to 536°F (280°C). They are highly flexible, durable, comfortably lined, and feature a flexible aluminum palm and thumb face. The 11(28 cm) length protects wrist area as well.



AWS NO.	SUP. NO.	QTY/PACK	PACK PRICE
061-1841	F38002-0000	1 pair	219.67

gloves, latex

M-Safe Latex Gloves

AWS NO.	DESCRIPTION	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
280-3852	Textured Powder Free Small	100	10pk/cs	12.50	98.45
280-3845	Textured Powder Free Medium	100	10pk/cs	12.50	98.45
280-3838	Textured Powder Free Large	100	10pk/cs	12.50	98.45
280-3859	Textured Powder Free X-Large	100	10pk/cs	12.50	98.45

gloves, neoprene

STANZOIL® Multi-Layer Knit-Lined Gloves—MAPA

Features a unique multi-layer construction, to avoid the thin spots and pinholes common to single-dipped supported gloves. Durable DuPont Neoprene for excellent dexterity, mechanical and chemical protection. Soft, absorbent interlock knit cotton liner adds comfort, easy on-off, high-and low-temperature protection. Roughed overdip provides a positive non-slip grip for hard-to-grasp materials. Two-color construction for a visual indicator of glove wear-through. Launderable. Meets USDA 21 CFR 177.2600, CE approved.

AWS NO.	SUP. NO.	DESCRIPTION	SIZE	GRIP CUFF	LENGTH/GUAGE	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
280-2730	334946	knit lined	S	roughed grip pinked cuff	12" med. wght.	12 pairs	72 pairs	61.00	342.00
280-2723	334947	knit lined	M	roughed grip pinked cuff	12" med. wght.	12 pairs	72 pairs	61.00	342.00
280-2716	334948	knit lined	L	roughed grip pinked cuff	12" med. wght.	12 pairs	72 pairs	61.00	342.00
280-2737	334949	knit lined	XL	roughed grip pinked cuff	12" med. wght.	12 pairs	72 pairs	61.00	342.00

gloves, nitrile

Disposable Nitrile Gloves—M-Safe



The Affordable Alternative to Latex! The new M-Safe 100% Nitrile glove contains no natural rubber proteins - the ideal solution for individuals allergic to natural rubber latex. This glove is easy to don, odor-free, and offers an unequaled fit and feel compared to conventional exam gloves. Our unique synthetic formulation reduces hand fatigue and offers superior puncture resistance and chemical resistance compared to latex or vinyl gloves. Packaged in convenient dispenser boxes; color-coded by size. Available in both powder-free and low powder, smooth or textured finish.

AWS NO.	SUP. NO.	PRODUCT	SIZE	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
280-3950	N824	powder-free/smooth finish	extra large	100	20pk/cs	15.85	265.00
280-3936	N801	powder-free/textured grip	small	100	20pk/cs	15.85	265.00
280-3929	N802	powder-free/textured grip	medium	100	20pk/cs	15.85	265.00
280-3922	N803	powder-free/textured grip	large	100	20pk/cs	15.85	265.00
280-3943	N804	powder-free/textured grip	extra large	100	20pk/cs	15.85	265.00

Micro-Mill® Grinder—Bel-Art**INTERCHANGEABLE GRINDING CHAMBERS**

Grinder operates only when cover is latched in place to provide safety and prevent sample loss. Temperature of grinding chamber can be maintained or lowered by means of built-in heat exchangers. 1/4" (6.4 mm) tubing connections on the cover and housing accept tubes for circulating water, methanol/dry ice liquid, or liquid nitrogen. Grinding chamber is 2-1/8" dia. x 1" deep (54x25 mm). Cover, grinding assembly, and milling blade head are removable for cleaning. The aluminum housing has an epoxy finish and non-skid rubber feet. Control panel has an overload protection reset button and a pilot light. The 1/5 horsepower (150 Watts) motor develops a torque of 30 ounce-inches (2.2 kg-cm) at 12,000 rpm. Has 6 ft. (1.8m) 3-wire cord and grounded plug. Overall dimensions 5-1/2" x 7" x 11" high (14 x 18 x 28 cm). Shipping weight. 14 lbs. (6.4 kg). Available in three models.

MICRO-MILL® GRINDER

Stainless steel blade and grinding chamber, with momentary hold-down switch. Operates only when switch is held down.

AWS NO.	SUP. NO.	ELECTRICAL	PRICE EACH
222-1521	H37250-0000	115VAC, 60Hz	1,017.00

MICRO-MILL® GRINDER

Stainless steel blade and grinding chamber, with 0-5 minute timer with "on" position for continuous operation.

AWS NO.	SUP. NO.	ELECTRICAL	PRICE EACH
222-1529	H37252-0000	115VAC, 60Hz	1,090.95

MICRO-MILL® GRINDER

Hard, stellate faced blade and grinding chamber, with momentary hold-down switch.

AWS NO.	SUP. NO.	ELECTRICAL	PRICE EACH
222-1457	H37254-0000	115VAC, 60Hz	1,275.00

REPLACEMENT BLADES

304 Stainless Steel blade for H37250 and H37252.

AWS NO.	SUP. NO.	ELECTRICAL	PRICE EACH
062-1897	H37257-0000	304 S.S.	5.40

HARD-FACED BLADES

For H37254. Stellate-faced blades for grinding samples up to hardness of stellite 6.

AWS NO.	SUP. NO.	ELECTRICAL	PRICE EACH
061-1825	H37258-0000	For H37254	45.69



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SoftGuard®—Stahmer Weston

Helps prevent skin irritation caused by latex gloves and frequent washing. Healthcare workers have unique skin irritation problems that are caused by two very identifiable sources: latex gloves and frequent washing. SoftGUARD Barrier Hand Cream is specifically designed to help prevent and relieve the irritation caused by these two irritants.

AWS NO.	SUP. NO.	DESCRIPTION	QTY/CASE	EACH	CASE PRICE
181-4837	SGD-1012	3 oz. tube w/flip-top cap	12	5.25	49.92
181-4823	SGD-1030	16 oz. bottle w/dispensing pump-top	6	15.45	80.94



SoftCide®—Stahmer Weston

The Extra-Mild Healthcare Personnel Handwash. A hand soap that is truly extra-mild despite frequent hand washing. In addition to latex gloves and frequent washing, harsh soaps are also a common source of skin irritation. Most soaps just aren't designed to be used as often as healthcare workers need to wash.

SoftCIDE is specifically designed to be truly gentle on your skin despite frequent washing. Each and every ingredient was carefully selected to ensure compatibility with the human skin. And SoftCIDE's unique formulation helps replenish the skin's natural oils that are washed away by frequent washing.

AWS NO.	SUP. NO.	DESCRIPTION	QTY/CASE	EACH	CASE PRICE
181-4781	SGD-2004	4 oz. bottle w/flip-top cap	12	3.25	32.28
181-4774	SGD-2010	32 oz. bottle w/dispensing pump-top	6	17.10	95.70



hotplates

PC-200/400/600 Series—Corning

- **Microprocessor Controlled** for fast, consistent heating that passes FCC regulations for EMI
- **Enclosed Electronics Design** protects components, improves performance, and prolongs product life.
- **Extra-Large Knobs** with easy-to-read numbers provide better control, even while wearing bulky safety gloves.
- **External Temperature Controller** socket is provided on the 400 and 600 series.



AWS NO.	SUP. NO.	POWER	TOP SIZE	TEMP RANGE	DIMENSIONS	PRICE EACH
222-3241	6795-200	120V/60Hz/253W/2.1A	4" x 5"	77-1022°F	4.4 x 5.8 x 7.3	171.13
222-3401	6795-400	120V/60Hz/628W/5.3A	5" x 7"	77-1022°F	4.4 x 7.8 x 9.6	192.93
222-3585	6795-600	120V/60Hz/1043W/8.7A	10" x 10"	77-1022°F	4.4 x 10.5 x 14.4	321.55

*Hot Plate/Stirrers combination please look under Stirrers Section

Hot Plates, Heavy Duty—Lindberg BlueM



SOLID-STATE CONTROL MODELS

- Solid-state electronic controls deliver rapid heat-up, precise control and exceptional reliability
- Moldatherm® insulation/heating element modules with extremely low thermal mass optimizes energy use, reduces maintenance and accelerates heat-up and cool-down
- Unique helically coiled heating element and heat-resistant top plate configuration combine to create uniform top plate temperature
- Independent On/Off switch
- Adjustable temperature control dial with red power "On" and amber power "Applied" indicator lights.
- Heavy-gauge top plate is mounted securely to a reinforced steel base; a high temperature painted finish resists wear
- 6' power cord included

AWS NO.	SUP. NO.	ELECTRICAL	TEMP PLATE WORKING SURFACE	OVERALL DIM	PRICE EACH
223-6152	HP53016A	120V, 50/60Hz	1800 to 4000°C	22"(55.9) x 5"(12.7) x 8.5"(21.6)	835.00

Cimarec®, Hot Plates—Barnstead/Thermolyne



- Solid ceramic top plate is easily cleaned, resistant to acid and alkali, and remains flat at high temperatures to ensure maximum heat transfer.
- Cimarec's reflective bright white color enhances sample visibility.
- Choose 4" x 4", 7" x 7"
- Integral ring-stand holder accommodates 0.5" (1.3 cm) diameter support rod.
- Rugged cast aluminum bodies provide stability and durability.
- For safe operation. Cimarec models include a power indicator light that illuminates when power is applied to the control.
- Excellent for bringing aqueous solutions to rapid boil. Units reach maximum temperature of 538°C in eight minutes.
- Boil 600 ml of H₂O in a 1 liter flask in approximately 12-18 minutes. Exact time depends on hotplate model.
- Infinite temperature selection is provided by a percentage input controller.
- Gross weight of items placed on top of unit should not exceed 25 lbs. (11.4 kg) on the 7" x 7" and 12" x 12" models, and 10 lbs. (4.5 kg) on 4" x 4" models.
- Not recommended for heating metal vessels or sand baths.

TOP PLATE SURFACE DIMENSIONS/OVERALL DIMENSIONS

4 x 4 model/4.75 x 4.25 x 5.25 inches

7 x 7 model/7.7 x 4.5 x 8.5 inches

AWS NO.	SUP. NO.	VOLTS	AMPS	WATTS	HERTZ	SIZE	TEMP RANGE °C	PRICE
221-2897	HP46515	120	3.1	375	50/60	4 x 4	150-538°	165.00
221-2905	HP46825	120	9.2	1100	50/60	7 x 7	150-538°	194.70



Specific Gravity Hydrometers—Ertco

Specific gravity hydrometers measure the ratio of the density of a sample compared to the density of pure water at the same temperature. The specified temperature for these types of hydrometers is 60/60°F (15.6/15.6°C).

Specific Gravity, Plain Form, for Liquids Lighter than Water, Length 300 mm

AWS NO.	SUPPLIER NO.	RANGE	DIVISION	PRICE EACH
611-6425	2535	0.650 to 1.000	0.005	19.60

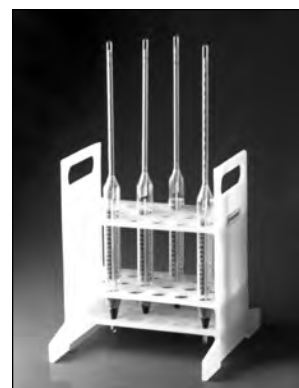
Specific Gravity, Plain Form, for Liquids Heavier than Water, Length 300 mm

AWS NO.	SUPPLIER NO.	RANGE	DIVISION	PRICE EACH
611-6385	2540	1.000 to 1.220	0.002	19.60
611-6377	2541	1.200 to 1.420	0.002	19.60
611-6369	2542	1.400 to 1.620	0.002	19.60
611-6361	2543	1.600 to 1.820	0.002	19.60
611-6353	2544	1.800 to 2.000	0.002	19.60

Hydrometer Racks—Bel-Art

Protect fragile glass hydrometers by storing them in this 18-place rack. The middle and top plates have 1"(25 mm) diameter holes. The bottom plate is 1-3/4"(44 mm) high and has wells tapering from 1" to 3/8"(9 mm) to hold the hydrometer bulb. The base is 8-1/4" x 8-1/2"(210 x 216 mm) for tip-proof stability. Overall height 9-7/8"(251 mm) with handles. Steam autoclavable at 250°F (121°C).

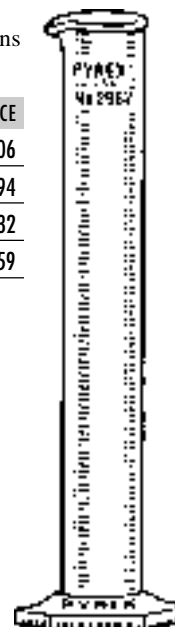
AWS NO.	SUPPLIER NO.	DESCRIPTION	PLATE SIZE	PRICE EACH
610-5641	F18988-0000	for long hydrometers	7"	56.76
610-5649	F18988-0001	for short hydrometers	5-5/8"	56.76



PYREX® brand, Hydrometer Jar—Corning

Breakage is minimized by the heavy wall construction. The large hexagonal base, sealed to the cylinder body, increases stability. Meets ASTM specifications D-2B7 and E-100

AWS NO.	SUPPLIER NO.	CAPACITY	APPROX. O.D.*HT	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
010-8601	2962-100	100 ml	29 x 254 mm	1	18	13.15	192.06
010-8889	2962-250	250 ml	39 x 340 mm	1	18	15.16	257.94
010-9065	2962-500	500 ml	50 x 390 mm	1	12	23.27	214.32
010-8673	2962-1L	1000 ml	64 x 465 mm		1		28.59



hygrometers

Memory Humidity/Temperature Monitor with Temperature Probe—Control Company



Memory unit constantly monitors and remembers high and low readings. "Always on" (there is no off switch) instrument makes continuous readings. Unit is supplied with an ambient humidity/temperature sensor inside the unit and an external temperature probe with a 10-foot cable. Probe and cable may be placed under water.

Display simultaneously reads ambient temperature, ambient humidity, and probe temperature. Minimum and maximum memory readings may be recalled or cleared with the touch of a button.

Ambient temperature range is 32 to 122°F and 0 to 50°C with a resolution of 1°.

Humidity range is 25 to 95% RH with a resolution of 1% and an accuracy at the mid-range of $\pm 2\%$ to $\pm 4\%$ at the ends of the range.

External temperature sensor displays from -58.0 to 158.0 °F and -50.0 to 70.0°C with a resolution of 1°. Temperature accuracy is $\pm 1^\circ\text{C}$. An individually serial-numbered Traceable® Certificate is supplied to indicate instrument traceability to standards provided by NIST (National Institute of Standards and Technology).

Use it to record standard lab conditions every day. Memory unit is ideal to constantly monitor an area or dedicate to one test. Bright LCD digits are 2 inch high.

The handsome design is housed in a rugged ABS plastic case. Supplied with two AA batteries (1-year continuous), internal humidity sensor, external internal temperature sensors, and a handy, plastic stand. Size is 3-1/2 x 5 x 7/8 inches, weight is 6 ounces.

AWS NO.	SUPPLIER NO.	DESCRIPTION	PRICE EACH
611-4505	4082	Traceable memory humidity/temperature monitor	65.90

Digital Relative Humidity/Temperature Meter with Minimum/Maximum Memory—Control Company



Ideal for critical experimental requirements, routine measurements, monitoring round-the-clock, and all quality control needs. Unique instrument shows the exact air conditions in labs, hoods, environmental chambers, chemical storage areas, clean rooms, coolers, incubators, and stock rooms.

Unit continuously and simultaneously displays relative humidity and temperature in °F/°C with dual-recall memories. The minimum and maximum memories may be displayed or cleared at any time with the touch of a button. They permit monitoring conditions overnight, week-ends, or any time period.

Temperature range is 32 to 122°F and 0 to 50°C with a resolution and accuracy of 1°. Humidity range is from 25 to 95%, resolution is 1% RH, and accuracy is $\pm 2\%$ (mid-range) to $\pm 4\%$ (ends-of-range). Fast-response, solid-state sensors show changes in under 30 seconds. Display is updated once a second.

An individually serial-numbered Traceable® Certificate is supplied to indicate instrument traceability to standards provided by NIST (National Institute of Standards and Technology).

Extra-large, easy-to-view, 3/4-inch-high digits can be read at a glance from as far away as 20 feet. Unit meets federal requirements for CLIA specification 493.1207 for monitoring temperature and humidity in labs.

Self-contained, stable, and accurate unit requires no adjustment or maintenance. Case is chemical- and shock-resistant ABS plastic. Supplied with a wall mount and bench stand, switch to read °F/°C, fast-response, solid-state sensors, and two AAA batteries. Size is 2-5/8 x 3-7/8 x 5/8 inches and weight is 2-1/2 ounces.

AWS NO.	SUPPLIER NO.	DESCRIPTION	PRICE EACH
611-4657	4096	Traceable digital humidity/temp dual min/max memory	47.94



The Weather System—Contol Company

The Weather System is a complete professional weather station. It's perfect for industrial plants, schools, labs, and others needing to monitor conditions, forecast weather, and check environmental air parameters.

Displays temperature, humidity, dew point, barometric pressure/pressure trend, weather forecast, wind direction/speed, wind chill, rainfall amount, and clock/ calendar. Programmable alarms for all measurements alert you to out-of-range conditions. Serial data output permits linking to a computer for storing all information, making a permanent weather database, generating analysis, and studying trends. Supplied complete with instructions, all sensors, all equipment, all cables, AC adaptor, and 12-hour backup battery (eliminates concerns about power outages).



AWS NO.	SUPPLIER NO.	DESCRIPTION	PRICE EACH
223-0233	4250	The weather system	329.96

THE WEATHER SYSTEM PERFORMANCE CHART

Clock:	12-hour, AM/PM time, 24-hour time, alarm, date		
Thermometer:	Indoor range:	0.0 to 50.0°C and 32.0 to 122.0°F	
	outdoor range:	-40.0 to 60.0°C and 40.0 to 140.0°F	
	resolution:	0.1°	
	accuracy:	±0.5°C. min/max memories, high/low alarms.	
Hygrometer:	Indoor and outdoor range:	10 to 97%	
	resolution:	1% RH	
	accuracy:	±5% min/max memories, high/low alarms	
Dew point:	Indoor range:	0.0 to 49.0°C and 32.0 to 120.0°F, outdoor range: 0.0 to 59.0°C and 32.0 to 138.0°F,	
	resolution:	0.1°, accuracy: ±2°C. min/max memories, high low alarms	
Barometer:	Absolute and adjusted to sea level pressure ranges:	794 to 1050 mb, kPa, 23.45 to 31.01 inHg 595.5 to 787.6 mmHg	
	resolution:	1 mb, 0.01 inHg, 0.1 mmHg	
	accuracy:	±5mb, ±0.15 inHg, ±3.7 mmHg; min/max memories; high/low alarms; altitude adjustment pressure trend indicator; weather forecasting by symbols (sunny, cloudy, rainy)	
Wind:	Speed measuring ranges:	0.0 to 56.0 m/sec, to 202.0 kph, to 126.0 mi/hr, and to 109.0 knots with resolution to 0.1 unit	
	accuracy:	±5%, gust max memory, gust alarm	
	wind direction:	0 to 359 degrees	
	resolution:	1 degree	
	accuracy:	±7 degrees, graphical representation of wind direction	
Wind Chill:	84 to 60°C and 119 to 140°F		
	resolution:	1°, accuracy: ±2°C, min memory, low alarm	
Rainfall:	Hourly rates:	0 to 993 mm/hr and 0 to 3.67 in/hr, daily accumulation to 9999 mm and 36.7 in	
	resolution:	1 mm/hr and 0.04 in/hr	
	accuracy:	±2%, max memory, high alarm	



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imhoff cone, glass and plastic

Imhoff Settling Cone, Polycarbonate; Polypropylene Screw Closure—Nalgene

Designed for determining settleable matter in water and waste effluent.

AWS NO.	SUP. NO.	QTY/CASE	PRICE EACH	CASE PRICE
033-3046	1000	4	25.25	101.00

Imhoff Cone Rack, Acrylic—Nalgene

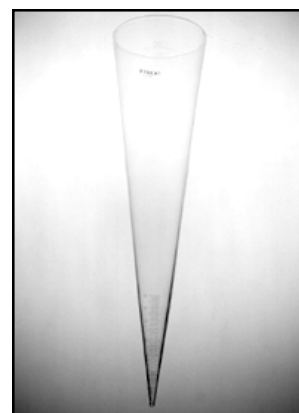
Made of durable, transparent acrylic.

AWS NO.	SUP. NO.	QTY/CASE	PRICE EACH	CASE PRICE
033-3039	1001	4	101.00	404.00

Imhoff, Sediment, Sharp Tip—Corning

For determination of small amounts of suspended matter in sewage by the Imhoff.

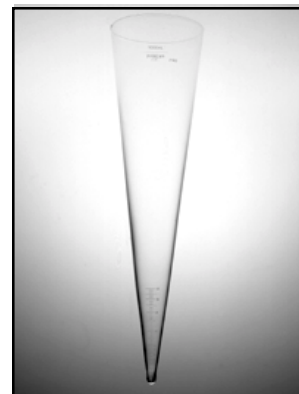
AWS NO.	SUP. NO.	APPROX. HEIGHT	APPROX. DIAM. AT TOP	PRICE
010-7777	2160-454	415 mm	110mm	145.32



Imhoff, Sediment, Blunt Tip—Corning

For use with heavy sediments, where ability to read small volumes is unimportant.

AWS NO.	SUP. NO.	APPROX. HEIGHT	APPROX. DIAM. AT TOP	PRICE
010-7769	2180-439	415 mm	110mm	170.04



incubators · B.O.D.

Ambi-Hi-Lo® Chambers—Lab-Line



The Lab-Line Ambi-Hi-Lo Chambers are designed for quality performance in a wide variety of applications, from general incubations to serum studies, enzyme assays, and B.O.D. testing—perfect for clinics, hospitals, public health and life science laboratories, sewage treatment plants, and industry.

- Available in 3 chamber sizes and 2 temperature ranges
- Durable enameled steel exterior
- Appropriate for B.O.D. testing
- 12 month warranty
- Model 3550 features economical undercounter design with high/low safety thermostat back-ups and space-saving internal mount control panel
- Model 3550DT has easy-access side mounted control panel
- Models 3554-35 and 3554-37 feature microprocessor-based temperature control with digital LED readout

Model	Temperature Range	Temperature Uniformity	Bod. Bottle Capacity	No. of Shelves
3550	+5°C to 50°C	±0.5°C	92	2 Fixed
3550DT	+5°C to 50°C	±0.5°C	92	2 Fixed
3554-35	-2°C to 60°C	±0.5°C	355	5Fixed
3554-37	-2°C to 60°C	±0.5°C	495	5Adjustable

AWS NO.	SUP. NO	VOLTS	CHAMBER VOL.	CHAMBER DIM.	EXT. DIM.	PRICE
270-6752	3550	120	5.5 Cu'	20-1/2x18-3/8x21-3/8	23-3/8x23-3/4x33-1/2	2794.00
270-6962	3550DT	120	5.5 Cu'	20-1/2x18-3/8x21-3/8	26-7/8x23-3/4x33-1/2	3701.50
270-6724	3554-35	120	19 Cu'	22x20x56	32x29-1/2x73-1/2	4768.50
270-6738	3554-37	120	28 Cu'	34x21x67	35x33x76	7502.00



L-C Incubators—Lab-Line

- Affordably priced
- 1.3 cu. ft. (37 L) and 5.1 cu. ft. (144 L) sizes available
- Dual safety thermostat
- UL listed and CSA certified
- 24 month warranty
- The economical L-C series of Lab-Line Incubators meet general laboratory requirements for applications within a temperature range of slightly above ambient to 65°C.
- Radiant warm wall heating provides maximum temperature uniformity in chamber
- Specially designed heaters located outside chamber eliminate the hazard of exposed heaters while conserving valuable chamber work space
- Superior heat distribution helps eliminate hot spots
- Hydraulic thermostat reacts quickly to temperature changes
- Pilot light indicates when unit is operating
- Two perforated aluminum shelves come standard-easily removed for interior cleaning
- Durable enameled steel exterior construction
- Corrosion-resistant aluminum chamber construction provides excellent heat transfer
- Models 203 and 403 come with 3-wire line cord and molded plug; are UL listed and CSA certified



AWS NO.	SUP NO.	VOLTS	CHAMBER VOL	CHAMBER DIM IN	EXT DIM IN	NO. OF SHELVES	PRICE
223-6166	203	120	1.3	13 x 13 x 13	15 x 15 x 20	2	847.00
223-6180	403	120	5.1	18 x 18 x 27	21 x 21 x 33	2	1254.00

Personal Incubator**MODEL 211D**

The Labnet 211D Incubator has been designed for general purpose incubation (<65°C) as well as more demanding applications requiring a broader temperature range. Its compact construction and small footprint make the 211D the ideal "personal" incubator.

- **Expanded Temperature Range**
- **Quick Recovery with Mechanical Convection**
- **Insulated Door with Observation Panel**
- **Unique Shelf System**

SPECIFICATIONS

Chamber Volume:	1.6cu ft
Temperature Range:	30° to 95°C
Temperature Uniformity:	±0.25°C
Temperature Accuracy:	±0.1°C
Chamber(WxDxH):	29 x 41 x 38 cm(11 x 14-1/2 x 15 in)
Exterior (WxDxH):	42.5 x 55 x 58 cm (16-3/4 x 21-3/4 x 23in.)
Electrical:	120V/6.5A (780W)

AWS NO.	SUP NO.	DESCRIPTION	PRICE EACH
223-3947	I-5211-D	Digital incubator, Model 211D, with 2 full and 1 half shelves	1525.00

Incubator Model 132000—Boekel

The need for an inexpensive, roomy, and feature loaded incubator has made this one of our most popular models. Its large capacity can handle all of the incubator requirements of the busiest physician's office, while the attractive styling, excellent performance and unbeatable price make it welcome in any lab.

The Boekel Incubator Model 132000 has a see-through acrylic door, magnetic door latch, pilot light and On/Off switch. It is supplied with a spirit filled thermometer, an integral bottom shelf, plus an adjustable shelf.

Incubator Model 131400—Boekel

The largest of Boekel economy incubators is very popular for use as an "egg incubator" in high school labs. It is also ideally suited for use in smaller clinical and industrial labs, and as a backup incubator in larger hospitals and clinics.

As with other Boekel incubators of this style, it is fabricated from rugged cold rolled steel and is finished with an attractive textured baked enamel finish. It incorporates a pilot light and is supplied with an integral bottom shelf plus 2 removable shelves and thermometer.

Incubator Model 133000—Boekel

Boekel Incubator Model 133000 offers a LCD digital temperature display (with a 0.1°C resolution) at a price comparable to most models supplied with glass thermometers. This unit is equipped with a rugged metal door, magnetic door latch and provides excellent temperature stability and uniformity. It is "shorter" than similar sized incubators which are equipped with thermometers, making it ideal for labs restricted by low hanging cabinetry

Model 133000 is supplied with an Integral bottom shelf plus one adjustable shelf.

AWS NO.	SUP NO.	ELECTRICAL	CHAMBER VOL	# OF SHELVES	SHELF STORAGE	MAX TEMP	TEMP	INDICATOR	OVERALL DIM IN.	CHAMBER DIM	PRICE EACH
221-9449	131400	115 VAC 125W	1.4 cu ft	3	3.2 sq ft	55 °C		Thermometer	15 1/2 x 14 x 19	14 1/4 x 11 1/2 x 14 1/2	565.00
221-9433	132000	115 VAC 90W	0.8 cu ft	2	1.7 sq ft	60°C		Thermometer	13 x 14 x 16 1/4	11 1/2 x 12 x 10 1/2	360.00
221-9489	133000	115 VAC 90W	0.8 cu ft	2	1.7 sq ft	60°C		LCD	13 x 14 x 16 1/4	11 1/2 x 12 x 10 1/2	485.00



Time® Tape—TimeMed

All purpose, self-adhesive Time Tape is well suited for a wide variety of labeling applications. It can be written on with pen, pencil or permanent marker and has a removable adhesive. This strong coated paper tape is oil, water and acid resistant. It will withstand temperatures down to -10°F and up to +250°F (-23°C to +121°C) and has an application temperature as low as +32°F (0°C). 1" core.

TIME TAPE IS AVAILABLE IN THE FOLLOWING 18 COLORS

- | | |
|-----------|----------------|
| 1. White | 10. Copper |
| 2. Yellow | 11. Rose |
| 3. Green | 12. Violet |
| 4. Pink | 13. Lavender |
| 5. Red | 14. Grey |
| 6. Grange | 15. Lime |
| 7. Blue | 16. Aqua |
| 8. Tan | 17. Chartreuse |
| 9. Salmon | 18. Black |

Time Tape is also available in convenient prepackaged assortments of colors including white, yellow, blue, green, orange, red and pink. Three Time Tape Rainbow Packs are available in tape widths of 1/2", 3/4" or 1". All rolls are in 500" lengths.

AWS NO.	SUP. NO.	WIDTH	EACH	EACH PRICE	ROLLS/PACK	PACK PRICE
181-5411	T-512-1	1/2"		3.00	24	72.00
181-5418	T-512-2	1/2"		3.00	24	72.00
181-5341	T-512-3	1/2"		3.00	24	72.00
181-5369	T-512-4	1/2"		3.00	24	72.00
181-5376	T-512-5	1/2"		3.00	24	72.00
181-5362	T-512-6	1/2"		3.00	24	72.00
181-5313	T-512-7	1/2"		3.00	24	72.00
181-5397	T-512-8	1/2"		3.00	24	72.00
181-5390	T-512-9	1/2"		3.00	24	72.00
181-5327	T-512-10	1/2"		3.00	24	72.00
181-5383	T-512-11	1/2"		3.00	24	72.00
181-5404	T-512-12	1/2"		3.00	24	72.00
181-5348	T-512-13	1/2"		3.00	24	72.00
181-5334	T-512-14	1/2"		3.00	24	72.00
181-5355	T-512-15	1/2"		3.00	24	72.00
181-5299	T-512-16	1/2"		3.00	24	72.00
181-5320	T-512-17	1/2"		3.00	24	72.00
181-5306	T-512-18	1/2"		3.00	24	72.00
181-5663	T534-1	3/4"		3.96	16	63.36
181-5670	T534-2	3/4"		3.96	16	63.36
181-5593	T534-3	3/4"		3.96	16	63.36
181-5621	T534-4	3/4"		3.96	16	63.36
181-5628	T534-5	3/4"		3.96	16	63.36
181-5614	T534-6	3/4"		3.96	16	63.36
181-5565	T534-7	3/4"		3.96	16	63.36
181-5649	T534-8	3/4"		3.96	16	63.36
181-5642	T534-9	3/4"		3.96	16	63.36
181-5579	T534-10	3/4"		3.96	16	63.36

AWS NO.	SUP. NO.	WIDTH	EACH	EACH PRICE	ROLLS/PACK	PACK PRICE
181-5635	T534-11	3/4"		3.96	16	63.36
181-5656	T534-12	3/4"		3.96	16	63.36
181-5600	T534-13	3/4"		3.96	16	63.36
181-5607	T534-14	3/4"		3.96	16	63.36
181-5551	T534-15	3/4"		3.96	16	63.36
181-5572	T534-16	3/4"		3.96	16	63.36
181-5558	T534-17	3/4"		3.96	16	63.36
181-5159	T534-18	3/4"		3.96	16	63.36
181-5166	T501-1	1"		5.04	12	60.48
181-5089	T501-2	1"		5.04	12	60.48
181-5117	T501-3	1"		5.04	12	60.48
181-5124	T501-4	1"		5.04	12	60.48
181-5110	T501-5	1"		5.04	12	60.48
181-5061	T501-6	1"		5.04	12	60.48
181-5145	T501-7	1"		5.04	12	60.48
181-5138	T501-8	1"		5.04	12	60.48
181-5075	T501-9	1"		5.04	12	60.48
181-5635	T501-10	1"		5.04	12	60.48
181-5131	T501-11	1"		5.04	12	60.48
181-5152	T501-12	1"		5.04	12	60.48
181-5096	T501-13	1"		5.04	12	60.48
181-5082	T501-14	1"		5.04	12	60.48
181-5103	T501-15	1"		5.04	12	60.48
181-5047	T501-16	1"		5.04	12	60.48
181-5068	T501-17	1"		5.04	12	60.48
181-5054	T501-18	1"		5.04	12	60.48



Time® Tape Rainbow Packs (500"Rolls)—TimeMed

Time Tape is also available in convenient prepackaged assortments of colors including white, yellow, blue, green, orange, red and pink. Three Time Tape Rainbow Packs are available in tape widths of 1/2", 3/4" or 1". All rolls are in 500" lengths.

AWS NO.	SUP. NO.	WIDTH	ROLLS/PACK	PACK PRICE
181-5684	T-512RP	1/2"	24	79.07
181-5691	T-534RP	3/4"	16	70.00
181-5677	T-501RP	1"	12	66.67

Time® Tape 2,160 Rolls—TimeMed

3" Core. Please specify color by color number.

AWS NO.	SUP. NO.	WIDTH	EACH	EACH PRICE	ROLLS/PACK	PACK PRICE
181-5285	T-1260-1	1/2"		7.67	72	552.24
181-5292	T-1260-2	1/2"		7.67	72	552.24
181-5215	T-1260-3	1/2"		7.67	72	552.24
181-5243	T-1260-4	1/2"		7.67	72	552.24
181-5250	T-1260-5	1/2"		7.67	72	552.24
181-5236	T-1260-6	1/2"		7.67	72	552.24
181-5187	T-1260-7	1/2"		7.67	72	552.24
181-5271	T-1260-8	1/2"		7.67	72	552.24
181-5264	T-1260-9	1/2"		7.67	72	552.24
181-5201	T-1260-10	1/2"		7.67	72	552.24
181-5257	T-1260-11	1/2"		7.67	72	552.24
181-5278	T-1260-12	1/2"		7.67	72	552.24
181-5222	T-1260-13	1/2"		7.67	72	552.24
181-5208	T-1260-14	1/2"		7.67	72	552.24
181-5229	T-1260-15	1/2"		7.67	72	552.24
181-5173	T-1260-16	1/2"		7.67	72	552.24
181-5194	T-1260-17	1/2"		7.67	72	552.24
181-5180	T-1260-18	1/2"		7.67	72	552.24
181-5537	T-3460-1	3/4"		10.65	48	511.20
181-5544	T-3460-2	3/4"		10.65	48	511.20
181-5467	T-3460-3	3/4"		10.65	48	511.20
181-5495	T-3460-4	3/4"		10.65	48	511.20
181-5502	T-3460-5	3/4"		10.65	48	511.20
181-5488	T-3460-6	3/4"		10.65	48	511.20
181-5439	T-3460-7	3/4"		10.65	48	511.20
181-5523	T-3460-8	3/4"		10.65	48	511.20
181-5516	T-3460-9	3/4"		10.65	48	511.20

AWS NO.	SUP. NO.	WIDTH	EACH	EACH PRICE	ROLLS/PACK	PACK PRICE
181-5453	T-3460-10	3/4"		10.65	48	511.20
181-5509	T-3460-11	3/4"		10.65	48	511.20
181-5530	T-3460-12	3/4"		10.65	48	511.20
181-5474	T-3460-13	3/4"		10.65	48	511.20
181-5460	T-3460-14	3/4"		10.65	48	511.20
181-5481	T-3460-15	3/4"		10.65	48	511.20
181-5425	T-3460-16	3/4"		10.65	48	511.20
181-5446	T-3460-17	3/4"		10.65	48	511.20
181-5432	T-3460-18	3/4"		10.65	48	511.20
181-5033	T-160-1	1"		13.89	36	500.04
181-5040	T-160-2	1"		13.89	36	500.04
181-4963	T-160-3	1"		13.89	36	500.04
181-4991	T-160-4	1"		13.89	36	500.04
181-4998	T-160-5	1"		13.89	36	500.04
181-4984	T-160-6	1"		13.89	36	500.04
181-4935	T-160-7	1"		13.89	36	500.04
181-5019	T-160-8	1"		13.89	36	500.04
181-5012	T-160-9	1"		13.89	36	500.04
181-4949	T-160-10	1"		13.89	36	500.04
181-5005	T-160-11	1"		13.89	36	500.04
181-5026	T-160-12	1"		13.89	36	500.04
181-4970	T-160-13	1"		13.89	36	500.04
181-4956	T-160-14	1"		13.89	36	500.04
181-4977	T-160-15	1"		13.89	36	500.04
181-4921	T-160-16	1"		13.89	36	500.04
181-4942	T-160-17	1"		13.89	36	500.04
181-4928	T-160-18	1"		13.89	36	500.04



Plastic Time® Tape Dispensers

TimeMed introduces two new dispensers for holding and dispensing rolls of Time Tape. These dispensers are constructed of a durable, clear plastic that will not rust or corrode. The flip-top cover helps protect the tape from dust and moisture. Suction cups on the bottom keep the dispenser in place on the counter or tabletop.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
063-5414	500P	Tape on 1" Core	40.85
063-5421	60P	Tape on 3" Core	71.27

Tape and Label Dispensers—TimeMed

PLASTIC SINGLE ROLL DISPENSERS

For dispensing single rolls of Time® Tape

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
063-5386	HD-1	Hand Held 1" Core	5.20
063-5428	3160	Adjust with 1"-3" Core	25.45

Metal Multiple Roll Dispensers

For dispensing multiple rolls of Time® Tape. With flip-top covers and bottom suction cups.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
063-5407	500	1" Cores	26.91
063-5400	60	3" Cores	55.27

Write On™ Label Dispenser—Bel-Art

This unique tape dispenser features a convenient writing platform which allows both left- and right-handed users to write on the tape before applying it to an item. The epoxy-coated platforms finger holes and built-in cutting edge make dispensing and cutting the tape a simple one-handed action. The weighted base with a non-skid bottom assures stability when in use. Includes a plastic core for 3" (76 mm) I.D. tape rolls up to 1" (25 mm) wide. Measures 10"x6"x4" (25x15x10 cm). Shipping weight 4 lbs. (1.8 kg.). Tape not included. For tape, see F13463 series.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
180-8385	H13461-0000	Write on Dispenser	50.59

Multiple Roll Tape Dispenser—Bel-Art

This tape dispenser allows tape rolls of various widths and colors to be mounted on a single drum and reeled off individually as needed. The 3-1/2" wide plastic drum accepts tape rolls with a 3" (76 mm) I.D. core. Separators keep tape rolls apart. A 4" x 6" (102 x 152 mm) writing platform with a serrated cutting edge supports the tape and hand. The base is weighted and has four rubber feet for stability and skid-resistance. Made of epoxy coated steel. Measures 10-1/4" x 6" x 4-3/4" high (26 x 15 x 11 cm). Shipping weight 5 lbs. (2.3 kg.). Tape not included. For use with Write-On Tape.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
180-6577	H13468-0000	Write on Dispenser	112.20



Write-On™ Label Tape—Bel-Art



Color Coded, 6 Colors - Scienceware® label tape works well with all glass and plastic labware, racks, tubing, bags, boxes, or cabinets of any material. It adheres to any clean surface, including Teflon® and peels off without leaving a sticky residue. Pencil, ball-point pen or solvent ink marker writing will remain legible under demanding laboratory use. The tape resists moisture and most solvents, withstands autoclaving and can be used down to -73°C. All rolls fit on standard 3" (76 mm) cores. Order color, width and roll size using catalog number and suffixes.

AW#	NO.	SUP. NO.	DESCRIPTION	PRICE EACH	QTY CASE	CASE PRICE
180-8481		F13463-0005	1/2" white 40 yds.	6.66	24	150.00
180-8545		F13463-0075	3/4" white 40 yds.	8.75	24	196.80
180-8497		F13463-0010	1" white 40 yds.	11.06	24	248.40
180-8473		F13463-1005	1/2" red 40 yds.	6.66	24	150.00
180-8537		F13463-1075	3/4" red 40 yds.	8.75	24	196.80
180-8409		F13463-1010	1" red 40 yds.	11.06	24	248.40
180-8489		F13463-2005	1/2" yellow 40 yds.	6.66	24	150.00
180-8553		F13463-2075	3/4" yellow 40 yds.	8.75	24	196.80
180-8417		F13463-2010	1" yellow 40 yds.	11.06	24	248.40
180-8457		F13463-3005	1/2" green 40 yds.	6.66	24	150.00
180-8521		F13463-3075	3/4" green 40 yds.	8.75	24	196.80
180-8393		F13463-3010	1" green 40 yds.	11.06	24	248.40
180-8449		F13463-4005	1/2" blue 40 yds.	6.66	24	150.00
180-8513		F13463-4075	3/4" blue 40 yds.	8.75	24	196.80
180-8505		F13463-4010	1" blue 40 yds.	11.06	24	248.40
180-8465		F13463-5005	1/2" orange 40 yds.	6.66	24	150.00
180-8529		F13463-5075	3/4" orange 40 yds.	8.75	24	196.80
180-8401		F13463-5010	1" orange 40 yds.	11.06	24	248.40
180-8433		F13463-0105	1/2" white 60 yds.	6.66	24	150.00
180-8441		F13463-0175	3/4" white 60 yds.	8.75	24	196.80
180-8425		F13463-0110	1" white 60 yds.	11.06	24	248.40

Indicator Tape for Autoclaving—TimeMed

This superior white crepe tape is impregnated with the word "AUTOCLAVED" and a freshness code that will appear after 15 minutes of exposure at 250F in a steam autoclave. The tape adhesive assures strong adherence yet clean removal. Available in 500" (1" core) rolls in widths of 1/2", 3/4" and 1". For synthetic wrap only.

AWS NO.	SUP NO.	DESCRIPTION	EACH PRICE	QTY/PACK	PACK PRICE
181-5719	TSI-512	1/2"	3.45	24	48.48
181-5726	TSI-534	3/4"	4.35	24	75.84
181-5712	TSI-501	1"	4.95	24	89.52

Lab Marker

Durable porous plastic tips with permanent, quick-drying, water and alcohol resistant ink that writes on cold or wet surfaces, plastic bags, or disposable labware. Markings will not smear on reusable glass, metal, or porcelain labware, but can be scrubbed off. Ideal for general lab, hospital or industrial use.

AWS NO.	SUP. NO.	COLOR	DESCRIPTION	QTY/PACK	PRICE EACH	PACK PRICE
064-2512	1301	black	extra fine	10	1.85	17.88
064-2519	1303	blue	extra fine	10	1.85	17.88
064-2526	1305	green	extra fine	10	1.85	17.88
064-2533	1306	red	extra fine	10	1.85	17.88
064-2540	1401	black	fine	10	1.85	17.88
064-2547	1403	blue	fine	10	1.85	17.88
064-2554	1405	green	fine	10	1.85	17.88
064-2561	1406	red	fine	10	1.85	17.88

(media) broth (mfs)

Ampoule Media

AWS NO.	SUP. NO.	MEDIUM	TARGET ORGANISM	VIAL SIZE	QTY/PACK	PACK PRICE
150-1275	COL1200	m-Endo	Total Coliform bacteria, water	2mL	50	51.25
150-1262	MFC200	m-FC	Fecal Coliform bacteria	2mL	50	54.35
150-1267	MFCR200	m-FC with Rosolic Acid	Fecal Coliform bacteria	2mL	50	62.00
150-1278	TCM200	m-TGE	Total bacteria	2mL	50	47.45

Dehydrated Media—Difco

AWS NO.	SUP. NO.	DESCRIPTION	SIZE (G)	PRICE
150-1377	1823-17	A-1 Medium	500	69.75
150-1913	0140-15	Bcto Agar	100	67.15
150-8433	0118-15	Bacto Peptone	100	29.85
150-8449	0118-17	Bacto Peptone	500	63.05
150-2553	0037-15	Brain-Heart Infusion	100	33.25
150-2577	037-17	Brain-Heart Infusion	500	78.40
150-4041	0080-15	Dextrose Tryptone Agar	500	79.85
150-4713	0314-15	EC Medium	100	28.85
150-4729	0314-17	EC Medium	500	62.35
150-6137	0241-15	Laurel Tryptose Broth	100	22.55
150-6153	0241-17	Lauryl Tryptose Broth	500	49.85
150-6801	0736-15	m-Endo Agar Les	100	37.95
150-6809	0749-15	m-Endo Broth MF	100	32.05
150-7337	0677-15	m-FC Agar	100	39.75
150-7345	0677-17	m-FC Agar	500	90.45
150-6865	0883-15	m-FC Broth Base	100	37.85
150-6873	0883-17	m-FC Broth Base	500	87.65
150-6913	0334-15	m-TEC Agar	100	35.40
150-8721	0479-15	Plate Count Agar	100	28.45
150-8729	049-17	Plate Count Agar	500	64.45
150-9425	3228-09	Rosolic Acid	6 x 1	49.85
150-2153	0369-15	Tryptic Soy Agar	100	20.45
150-2265	0370-15	Tryptic Soy Broth	100	14.95
150-5529	3328-32	Gram's Stain Set	4 x 250 ml	37.55
151-1049	9063-74	Tryptic Soy Broth	4 x 250 ml	59.85



Research Microscopes—VanGuard

1200CM RESEARCH MICROSCOPES

VanGuard 1200CM Series Research Compound Microscopes combine high performance and advanced features & optics to produce images of the utmost in clarity. Choose from Brightfield or Phase Contrast models with achromatic or plan-achromatic objectives.



AWS NO.	SUP. NO.	HEAD	TYPE	OBJECTIVE	MAGNIFICATION	OBJECTIVE TYPE	ILLUMINATION	PRICE
291-0269	1220CM	Binocular	Brightfield	4X, 10X, 40X, 100X (Oil)		Achromatic	20W Variable Quartz Halogen	845.00
291-0271	1221CM	Binocular	Brightfield	4X, 10X, 40X, 100X (Oil)		Plan Achromatic	20W Variable Quartz Halogen	1195.40
291-0276	1222CM	Binocular	Phase Contrast	10X, 20X, 40X, 100X (oil)		Achromatic	20W Variable Quartz Halogen	1389.00
291-0278	1223CM	Binocular	Phase Contrast	10X, 20X, 40X, 100X (oil)		Plan Achromatic	20W Variable Quartz Halogen	1820.00

microscopes accessories

Cover Glass—Corning

CORNING® BRAND, SQUARES, NO. 1

The thickness of No. 1 squares is 0.13 to 0.16mm.

AWS NO.	SUP NO.	APROX. SIZE	APROX. PCS/OZ	QTY/PK	QTY/CASE	PK PRICE	CASE PRICE
290-1465	2865-22	22x22mm	160	1 oz	10 oz	13.36	89.28

CORNING® BRAND, SQUARES, NO. 1-1/2

The thickness of No. 1-1/2 squares is 0.16 to 0.19mm.

AWS NO.	SUP NO.	APROX. SIZE	APROX. PCS/OZ	QTY/PK	QTY/CASE	PK PRICE	CASE PRICE
290-1385	2870-22	22x22mm	135	1 oz	10 oz	15.75	91.24

CORNING® BRAND, RECTANGLES, NO. 1

The thickness of No. 1 squares is 0.13 to 0.16mm.

AWS NO.	SUP NO.	APROX. SIZE	APROX. PCS/OZ	QTY/PK	QTY/CASE	PK PRICE	CASE PRICE
290-1449	2935-224	22x40mm	88	1 oz	10 oz	9.45	89.28
290-1457	2935-225	22x50mm	72	1 oz	10 oz	9.45	89.28

Micro Slides—Erie Scientific

AWS NO.	SUP. NO.	DESCRIPTION	QTY/PACK	PACK PRICE
290-2337	2950F	3 x 1 Plain 1 mm Thick	1 GR	31.15
290-2329	2954F	3 x 1 Plain 1.2 mm Thick	1 GR	35.85
290-2401	2951F	3 x 1 Sand Blasted Frosted End 1 mm Thick	1 GR	32.75

Slides—Corning

Corning® brand microscope slides are made from water-white glass to maximize clarity. Corning® brand frosted slides are highly legible against most lab bench backgrounds because they are sandblasted instead of etched. To minimize waste, they are inspected for chips and rough edges before being packaged.

CORNING® BRAND, PLAIN

AWS NO.	SUP. NO.	APPROX. SIZE	APPROX. PCS/OZ	QTY/CASE	PACK	CASE PRICE
290-1113	2947-3x1	3"x1"	0.90-1.10	10 GR	21.78	164.13

CORNING® BRAND, FROSTED ONE SIDE, ONE END

AWS NO.	SUP. NO.	APPROX. SIZE	APPROX. PCS/OZ	QTY/CASE	PACK	CASE PRICE
290-1105	2948-3x1	3"x1"	3"x1"	10 GR	21.96	201.50

Immersion Oil

Resolv low viscosity, non-drying oil in dispenser tube.

AWS NO.	SIZE	PRICE
170-2282	1/2 oz	4.97

Lens Cleaner

Clean eyepieces or remove immersion oil

AWS NO.	SIZE	PRICE
170-2373	20 oz Bottle	8.10

Lens Paper

Lint free, 4x6" sheet, 50 sheets/pack.

AWS NO.	PACK PRICE
175-2380	3.19

Inoculating Loop

AWS NO.	PRICE
170-2289	6.48



Slide Storage Cabinet—Boekel

This stackable six drawer cabinet holds up to 5000 standard 3x1" glass microscope slides. When stacked, cabinets interlock for added stability. Drawer backs act as handles which simplify transport and also prevent drawers from accidentally being pulled from the cabinet during access. Drawers slide smoothly and quietly on plastic runners. Plastic drawer dividers can be removed to allow storage of objects up to 2" wide.

Supplied with sponge blocks to support slides in partially filled drawers and identification labels. Cabinet base (Model 141001) has rubber feet to prevent scratching and slipping on supporting structure.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
290-2073	141000	Slide Cabinet	166.00
290-1297	141001	Cabinet Base	64.00
290-1881	141002	Drawer Only	23.00

Slide Boxes—Bel-Art

These compact, durable slide boxes provide the utmost protection for 1x 3" (25 x 75 mm) microscope slides. Heavy walls will not warp, splinter, or crack. Boxes are unaffected by humidity and are thoroughly insect-proof. Cover and bottom have a numbered index for easy identification.



AWS NO.	SUP. NO.	DESCRIPTION	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
290-2473	H44576-0000	For 25 Slides	2	24 Packs	9.26	203.76
290-1017	H44576-0050	For 50 Slides	1	12 Packs	14.61	152.28

Porcelain Mortar and Pestle Sets

AWS NO.	SUP. NO.	CAPACITY	QTY/PACK	PRICE EACH
065-8705	5030	135 ml	90x90 mm	7.50
065-8712	5031	300 ml	120x130 mm	9.40
065-8719	5032	600 ml	150x160 mm	14.25



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ovens, gravity convection

L-C Ovens—Lab-Line

- Gravity convection models feature- aluminum interior bimetallic thermostat temperature control.
- Mercury thermometer (not included) temperature display
- Temperature range to 210°C
- Double wall interior with 1" (25 mm) silica-based insulation
- Durable enamel-finished cold-rolled steel exterior
- Pre-set high limit safety thermostat comes standard
- One fixed, two adjustable chrome-plated wire shelves are included

AWS NO.	SUP. NO.	VOLTS	AMPS	CHAMBER DIMENSIONS	EXTERIOR DIMENSIONS	VOLUME	PRICE EACH
223-8553	3511	120	6.7	16 x 11 1/2 x 16 1/8	18 1/2 x 13 1/2 x 28 1/2	1.7 cu ft	583.00
223-8567	3512	120	6.7	18 x 13 1/2 x 22	20 1/2 x 15 3/4 x 28 1/2	3.1 cu ft	770.00
223-8581	3513	120	13.3	28 x 18 x 22	31 1/8 x 20 5/8 x 28 7/8	5.7 cu ft	1397.00

ovens, mechanical convention

L-C Ovens—LabLine

- Temperature range to 210°C
- Double wall interior with 1" (25mm) silica-based insulation
- Durable enamel-finished cold-rolled steel exterior
- Pre-set high limit safety thermostat comes standard
- One fixed, two adjustable chrome-plated wire shelves are included
- 120 volt models have 3-wire cord and plug; 240 volt models have 3-wire line cord only
- Gravity convection models feature aluminum interior bimetallic thermostat temperature control. Mercury thermometer (not included) temperature display stainless steel interior hydraulic thermostat temperature control
- LED temperature display



AWS NO.	SUP. NO.	VOLTS	AMPS	CHAMBER DIMENSIONS	EXTERIOR DIMENSIONS	VOL	PRICE EACH
223-8525	3515M	120	10	16 x 11 1/2 x 16	18 7/16 x 15 9/16 x 25	1.7 cu ft	1,386.00
223-8511	3516M	120	10	18 x 13 1/2 x 22	20 7/16 x 17 11/16 x 31	3.1 cu ft	1,622.50

Imperial V Mechanical Convection Oven—Lab-Line

- Dependable hydraulic thermostat temperature control plus mechanical convection for improved performance
- Convenient digital temperature display
- Backup thermostat protects samples in case of primary control failure
- 24 month warranty
- User set over-temperature protection in case of primary control failure
- Indicator lights show which thermostat is controlling temperature
- Plug-style door construction guards against heat loss from work chamber
- Interior walls constructed of corrosion-resistant, easy to clean stainless steel
- Two adjustable chrome-plated wire shelves included standard
- 3" fiberglass insulation helps retain heat in work chamber
- One piece silicone gasket and positive locking door latch prevent heat loss
- Lab-Line's exclusive convection air flow system

AWS NO.	SUP. NO.	VOLTS	AMPS	CHAMBER DIMENSIONS	EXTERIOR DIMENSIONS	VOL	PRICE EACH
223-8441	3471M	120	10.8	13 x 17 1/8 x 19 1/2	21 5/8 x 25 1/4 x 35 1/2	2.5 cu ft	2,354.00
223-8455	3476M	120	15.8	18 x 17 1/8 x 19 1/2	26 5/8 x 25 1/4 x 35 1/2	3.5 cu ft	2,519.00
223-8469	3478M	120	15.8	23 x 17 1/8 x 19 1/2	31 5/8 x 25 1/4 x 35 1/2	4.4 cu ft	2,651.00

oxygen meters

Portable Meters, Dissolved Oxygen—Corning

MODEL 312 MODEL 317

These meters are microprocessor designed and are waterproof to IP67. Additional features include data logging up to 10 values, RS232 output, and a two year warranty for the meter.

AWS NO.	SUP. NO.	MODEL NO.	ACCESSORIES	PRICE EACH
360-2425	475855	312		648.01
360-2505	475874	317		954.30
360-1745	476611	#312 D.O.	Sensor Probe 13 ft. cable	439.92
360-1761	476622	#317 D.O.	Sensor 6 ft. cable	469.30
360-1753	476623	#317 D.O.	Sensor 30 ft cable	498.68
360-3297	470444	#312/317	Meter Holder "Gator"	92.65
360-1785	473730	#312	D.O. replacement membrane 3-cap	99.03
360-1777	473736	#317	D.O. replacement membrane 3-cap	99.03
360-3561	470463	#317	Stainless Steel DO Probe Sinker	98.10
360-1321	471027	#312	Replacement Battery, 9V	9.05
360-1313	470438	#317	Replacement Battery, (4)	10.36



Benchtop Dissolved Oxygen/BOD/Temperature Meter— Thermo Orion

MODEL 850

- Value and Performance with RS232 and 50 Point Datalogging
- Salinity Correction
- Barometric Pressure Compensation

The Model 850 Dissolved Oxygen Meter offers advanced laboratory quality measurement features in an economical, efficient design. The Model 850 is loaded with features including automatic temperature compensation, RS232 communication capability, 50 point datalogging, barometric pressure compensation, salinity correction, selectable resolution, two position flip stand, and one or two point calibration. It has a bright LCD display, and simultaneously displays concentration, temperature, mode and ready. The Model 850 is compatible with printer 900A, which attaches directly to the meter case for convenient use and minimum bench space. It is supplied with probe, probe service kit, BOD adapter, line adapter, and manual. Meter warranty is two (2) years.

†Windows is a registered trademark of Microsoft Corporation



AWS NO.	SUP. NO.	MODEL	ACCESSORIES	PRICE EACH
360-7853	085000 (2)	850	w/Self Stirring Probe (081010)	1,125.00
360-7861	0850A9		Meter 110V and Power Adapter w/o probe	850.00

Advanced Benchtop Dissolved Oxygen/ BOD/Temperature Meter—Thermo Orion

MODEL 862A

- Automatic Temperature and Barometric Pressure Compensation
- Datalog Up to 200 Points
- Simultaneous Display of Dissolved Oxygen or % Saturation and Temperature

Thermo Orion's Model 862A offers dual display capability plus a third line for barometric pressure display. Automatic salinity correction and AUTO-CAL air calibration make the Model 862A exceptionally easy to use. A built-in stirrer control allows control of an autostirrer at either the meter or stirrer. Automatic printing or timed interval allows unattended data collection for an indefinite period for BOD analysis. The Model 862A measures barometric pressure directly from the meter with AUTO-BAR feature. Unique calibration mode allows calibration to the winkler titration. The meter warranty is three (3) years.

AWS NO.	SUP. NO.	MODEL NO.	ACCESSORIES	PRICE EACH
360-7845	0862A0 (3)	862A	w/Self Stirring Probe (086020)	2,200.00
360-7843	0862A9		Meter 110V and Power Adapter	1516.00

Auto-Stir BOD Probe—Thermo Orion



MODEL 086020

A new level of speed, convenience, and accuracy is featured in this new 800 Probe from Thermo Orion. The built-in stirrer provides vigorous sample agitation, preventing oxygen stratification, and can easily be disassembled for cleaning. Galvanic probe design means no polarization time is required after attaching your probe to the meter, and Orion's low current design allows about six months between probe servicing. The probe stand, which is free standing, can be used to store your probe when not in use, and also functions as an air calibration beaker. One-Touch™ control from the probe means fast and easy BOD analysis. (For use on Model 862.)

AWS NO.	SUP. NO.	PRICE EACH
360-6166	086020	1092.00

Basic Dissolved Oxygen/Temperature Meter—Thermo Orion

MODEL 830A

- Calibrate by Electrode Zeroing, in Air or in Liquid
- Automatic Temperature and Barometric Pressure Compensation
- Rugged Waterproof to IP66

Thermo Orion's NEW Model 830A is a basic waterproof handheld dissolved oxygen meter with built-in probe quiver for air calibration. With dual display of DO and temperature, three calibration options including optional calibration to the Winkler titration, automatic temperature and barometric pressure compensation. Model 830A is the easiest to use meter available. The meter comes with Model 083010A dissolved oxygen probe. Meter warranty is three (3) years. Field Kit includes meter, probe, probe stand, beakers, DO maintenance kit.

AWS NO.	SUP. NO.	MODEL NO.	ACCESSORIES	PRICE EACH
360-7807	0830A2	830A	Meter only	725.00
360-7805	0830A0 (2)	830A	Meter w/Probe (083010A)	1010.00
360-7809	0830A3 (5)	830A	Complete Field Kit	1175.00



Sterilizing Trays—Bel-Art

Lightweight, corrosion-proof with rounded corners and smooth, tapered sides for nesting. Steam autoclavable at 250°F (121°C).

AWS NO	SUP. NO.	WIDTH X LENGTH X HEIGHT	PRICE EACH
031-5465	H16260-0000	30 x 20 x 13 mm	10.99
031-5457	H16262-0000	48 x 27 x 13 mm	18.81
031-5449	H16264-0000	51 x 39 x 13 mm	26.40

Sterilizing Tray Covers—Bel-Art

Covers are 1/8" (3.2mm) thick. 1" (25.4mm) skirt fits over tray rim. Steam autoclavable at 250°F (121°C)

AWS NO	SUP. NO.	WIDTH X LENGTH X HEIGHT	PRICE EACH
031-5441	H16259-0000	Tray Cover for H16260-0000	41.68
031-5433	H16261-0000	Tray Cover for H16262-0000	55.11
031-5425	H16263-0000	Tray Cover for H16263-0000	74.91

Utility Pan (LDPE)—Dynalon

Molded of low density polyethylene. Extra sturdy with carrying handles on both ends. Convenient for many purposes in hospitals, schools, industries and laboratories. Dimensions: 14 1/2" x 12" x 6 1/4" deep top inside.

AWS NO	SUP. NO.	QTY/CASE	PRICE EACH	CASE PRICE
031-3881	409144	4	15.10	44.88



Trays with Covers (LDPE)—Dynalon

Basins/Pans Polyethylene - Versatile, lightweight, molded high-density polyethylene containers with low-density polyethylene lids. White only.

AWS NO	SUP. NO.	OD DIMENSIONS	QTY/CASE	CASE PRICE
031-9433	407504	51/2 x 51/2 x 23/8	12	53.13
031-9449	407524	71/4x 53/8 x 33/8	12	69.41
031-9457	407544	91/2x 65/8x 51/2	6	57.20



parafilm

Parafilm®



PM996

4" x 125'-A time saver when medium sized-sheets or strips are needed for covering bandages in drainage cases-larger beakers and tubes-for wrapping and protecting culturemedia.

PM999

4" x 250' - Double length roll. Save when this roll is purchased versus the 125' roll.

PM992

2" x 250'-The two inch roll is ideal when used with the Dispenser as 2 inch square can be cut quickly and efficiently.

PM998

20" x 50'-ideal where larger sheets are needed for covering wet bandages in drainage cases, overwrapping bandages covering irregular surfaces and for larger flasks and beakers and culture dishes. Serves as an ideal tray and medicine shelf liner and prevents bottles, containers, instruments and other articles from slipping and breaking.

AWS NO	SUP. NO.	SIZE	QTY/CASE	PRICE EACH	CASE PRICE
350-1022	PM996	4" x 125'	12	17.88	214.56
361-2664	PM999	4" X 250'	12	30.46	365.52
350-1015	PM992	2" X 250'	24	18.16	435.84
400-1085	PM998	20" X 50'	6	39.82	238.92

Parafilm® Dispenser/Cutter—Dynalon

Easy dispensing and cutting of 4" (10cm) rolls of parafilm. Acrylic dispenser provides dust-free storage and easy dispensing of parafilm. The smoke colored acrylic helps prevent film from yellowing and is easy to clean. Dispenser is complete with serrated blades for effortless cutting. Dim: 6-3/8" L x 5-1/8" W x 5-3/4" H.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
031-3889	176205	Clear parafilm dispenser/cutter	92.95
031-3897	176215	Smoked parafilm dispenser/cutter	92.95

pH paper

Hydron pH Papers in Single Roll Dispensers—Micro Essential



Complete With Color Chart and 15 Foot Roll of pHHydron Testing Paper Hydron Single Roll Dispensers are available in both Wide and Short Range Papers. The Hydron Wide Range Papers show a distinct color change for each full pH unit.

AWS NO	SUP. NO.	DESCRIPTION	RANGE	QTY/PACK	PRICE EACH	PACK PRICE
361-3152	47	Hydron Vivid 0-9	0 to 9	10	4.75	40.00
361-3159	48	Hydron A	2-4-6-8-10	10	4.75	40.00
361-3166	49	Hydron B	1-3-5-7-9-11	10	4.75	40.00
361-3173	50	Hydron Dispenser	1 to 12	10	4.75	40.00
361-3194	52	Hydracid Dispenser	1 to 6	10	4.75	40.00
361-3201	53	Hydralk Dispenser	6 to 11	10	4.75	40.00



ColorpHast pH Strips—EM Science

Each package contains 6 packs of 100 strips each.

Universal: Four squares with different indicators on each strip.

Intermediate Range: Three squares with different indicators on each strip.

Narrow Range: Two squares with a single indicator on each strip.

AWS NO.	DESCRIPTION	PH RANGE	SENSITIVITY PH UNITS	QTY./PACK	PRICE EACH	PACK PRICE
9590-3	Universal	0 to 14.0	0.5	6	13.15	69.50
9578-3	Intermediate range	2.0 to 9.0	0.5	6	13.15	69.50

ColorpHast pH Strips—EM Science

AWS NO.	DESCRIPTION	PH RANGE	SENSITIVITY PH UNITS	QTY./PACK	PRICE EACH	PACK PRICE
9586-3	Intermediate range	0.0 to 6.0	0.3 to 0.5	6	13.15	69.50
9588-3	Intermediate range	5.0 to 10.0	0.3 to 0.5	6	13.15	69.50
9587-3	Intermediate range	7.5 to 14.0	0.3 to 0.5	6	13.15	69.50
9580-3	Narrow Range	0 to 2.5	0.2 to 0.3	6	13.15	69.50
9581-3	Narrow Range	2.5 to 4.5	0.2 to 0.3	6	13.15	69.50
9582-3	Narrow Range	4.0 to 7.0	0.2 to 0.3	6	13.15	69.50
9583-3	Narrow Range	6.5 to 10.0	0.2 to 0.3	6	13.15	69.50
9585-3	Narrow Range	11.0 to 13.0	0.2 to 0.3	6	13.15	69.50

pH portable meters

QuikcheK—Thermo Orion

The QuikcheK “pocket” meter series includes meters for pH, ORP (Oxidation—Reduction Potential), Conductivity (including TDS) and Temperature. All meters are compact, easy to read and operate, and provide a wide range of measurements to suit almost every application. They are designed for today’s busy industrial and environmental users.

- **Removable protective cap attaches to top of meter**
- **Small, compact design**
- **Automatic Temperature Compensation**
- **Easy-to-use push-button keypad design**
- **Calibration Test built-in to ensure accuracy**
- **Easy-to-read LCD display**
- **Self-diagnostic error messages to aid troubleshooting**
- **Easy battery replacement**



AWS NO	SUP. NO.	MODEL NO.	MEAS.	RANGE	RESOLUTION	ACCURACY	TEMP COMP	PRICE EACH
360-7965	010600	106	pH	0.0 to 14.0 pH	0.1 pH	±0.1 pH	Yes	70.00
360-7972	010800	108	ORP	±999 mV	1 mV	±5 mV	N/A	78.00
360-7979	011000	110	Temp	-50 to +150 °C	0.1 °C	±0.1 °C	N/A	65.00
360-7986	011200	112	TDS	1,990 ppm	10 ppm	±2% full scale	Yes	70.00
360-7993	011400	114	TDS	10,000 ppm	100 ppm	±2% full scale	Yes	70.00
360-8000	011600	116	Conductivity	1,990 µS/cm	10 µS/cm	±2% full scale	Yes	70.00
360-8007	011800	118	Conductivity	19,900 µS/cm	100 µS/cm	±2% full scale	Yes	70.00

pH portable meters

Chek-Mite Meters—Corning



MODEL PH-10

SPECIFICATIONS

Measured Units: pH

Range/Parameter #1: 0 to 14

Resolution: 0.01

Accuracy: ± 0.2 pH

Temp. Compensation: Manual, set @25°C

Calibration Auto/Man: Auto

Sensor Type: Combo, Replaceable

Battery Life: Storage (i.e. Batteries in place but turned OFF)=1000 days; Use, based on intermittent daily usage =>100 hrs. Batteries are replaceable.

Warranty: 6 months

Size (H x W x D): 9.0 (230mm) x 1.75 (44mm) x 1.25 (30mm) inches

MODEL PH-15

SPECIFICATIONS

Measured Units: pH

Range/Parameter #1: 0 to 14

Resolution: 0.01

Accuracy: 0.04pH

Temp. Compensation: Manual, set @25°C

Calibration Auto/Man: Auto

Sensor Type: Combo, Replaceable

Battery Life: Storage (i.e. Batteries in place but turned OFF)=1000 days; Use, based on intermittent daily usage =>100 hrs. Batteries are replaceable.

Warranty: 6 months

Size (H x W x D): 9.0 (230mm) x 1.75 (44mm) x 1.25 (30mm) inches

MODEL PH-20

SPECIFICATIONS

Measured Units: pH

Range/Parameter #1: 0 to 14

Resolution: 0.01

Accuracy: 0.04pH

Temp. Compensation: 0 to 50°C, auto

Calibration Auto/Man: Auto

Sensor Type: "3 in 1", replaceable

Battery Life: Storage (i.e. Batteries in place but turned OFF)=1000 days; Use, based on intermittent daily usage =>100 hrs. Batteries are replaceable.

Warranty: 6 months

Size (H x W x D): 9.0 (230mm) x 1.75 (44mm) x 1.25 (30mm) inches



pH portable meters

Chek-Mite Meters—Corning (continued)

MODEL PH-25

SPECIFICATIONS

Measured Units: pH

Range/Parameter #1: 0 to 14

Resolution: 0.01

Accuracy: 0.04pH

Temp. Compensation: Manual, set @25°C

Calibration Auto/Man: Auto

Sensor Type: BNC skt.

Battery Life: Storage (i.e. Batteris in place but turned OFF)=1000 days; Use, based on intermittent daily usage =>100 hrs. Batteries are replaceable.

Warranty: 6 months

Size (H x Wx D): 9.0 (230mm) x 1.75 (44mm) x 1.25 (30mm) inches



AWS NO	SUP. NO.	MODEL	PRICE EACH
360-1427	47660	pH-10	59.00
360-1429	475661	pH-15	69.00
360-1431	475662	pH-20	79.00
360-3011	475663	pH25	79.00

pH handheld meters

Basic Portable pH/Temperature Meters Model 230A —Thermo Orion

- **2 Point pH Calibration**
- **Autocalibration with Choice of 3 Buffers**
- **pH Resolution 0.01**

The Orion Model 230A is an affordable, rugged, portable meter for performing routine pH measurements in the field, plant, or laboratory. Housed in a splash-and chemical-resistant case, this meter includes a built-in electrode storage sleeve and cable management. The Model 210A features simple four button operation. Calibration is fast, easy, and accurate using two step autocalibration with built-in Auto-Buffer-Recognition, built-in buffer/temperature tables, custom buffer calibration and automatically calculated and displayed electrode slope value. Comes with Triode electrode.



AWS NO	SUP. NO.	MODEL	PH RANGE	TEMP. RANGE	MV RANGE	DISPLAY	PRICE EACH
360-3863	0230AO	230A	-2.00 to 19.99	-5.0 to 105.0°	N/A	Custom LCD	472.00

Basic pH/mV/Temperature Model 260A—Thermo Orion

- **Waterproof and Intrinsically Safe/Waterproof Versions**
- **3 Point Autocalibration with Choice of Buffers or Manual Calibration**
- **Designed for Field Use**

The Model 260A was designed for accurate measurement of pH, mV and temperature in the field. A large easy-to-read display monitors electrode response supplied with a built-in quiver and neckstrap. The meter and electrode package contains a rugged, low-maintenance Thermo Orion Triode 3-in-1 Combination pH Electrode.

AWS NO	SUP. NO.	MODEL	DESCRIPTION	PH RANGE	TEMP. RANGE	MV RANGE	DISPLAY	PRICE EACH
360-7707	0260AO (1)	260A	Meter and Electrode	-2.00 to 16.00	-20°C to 120°C	±1300 mV	Custom LCD	767.00
360-7710	0260A2	260A	Meter Only	-2.00 to 16.00	-20°C to 120°C	±1300 mV	Custom LCD	716.00

Portable Meters, pH—Corning



MODEL 308

- **Nonvolatile calibration memory**
- **Low battery indicator**
- **Reads temperature and pH**
- **This meter is microprocessor based and reads both pH and temperature. It includes a 3-in-1 electrode with a 36" cable.**



MODEL 313/MODEL 315

- **pH and ISE meter**

Expanded feature offerings and sophisticated technology are the elements that ensure a successful partnership between the Corning pH meter and the end-user. These Corning portable meters feature the next level of sophistication with NEW patented polymer electrode technology 3-in-1 electrode, and microprocessor design. Exclusive design features an ultrasonically sealed case and special electrode connectors to ensure an IP67 rating, which is dust-tight and waterproof to a depth of one meter. All of the capabilities normally found in bench meters are offered in a portable case that is ideal for use in the field or anywhere with limited bench space.



SPECIFICATIONS:	308	313	315
pH Range	0-14	0-14	-2 to 19.999
pH Resolution	0.01	0.01	0.0001
pH Accuracy	±0.02	±0.01	±0.0001
mV Range		±1999	±1999.9
mV Resolution		1	0.1
ATC Range(°C)	0-70	-5 to 105	-5 to 130
Resolution(°C)	0.1	0.1	0.1
Accuracy(°C)	±0.5	±0.2	±0.2
Temp Control	Auto	Auto	Manual/Auto
Concentration Range			0.0001 to 19999
Concentration Resolution			±1 LSD
Concentration Accuracy			0.5%

AWS NO	SUP. NO.	MODEL	PRICE EACH
360-2393	475851	308	329.18
360-2441	475870	313	449.08
360-2489	475872	315	931.95

pH multiparameter meters

Portable Multi-Parameter Meter—Orion

Multi-Parameter pH/mV/°C/ORP/Cond/Salinity/D.O. Meter Model 1230

The Model 1230, Orion's newest multi-parameter portable meter, is fully waterproof to rigorous IP67 requirements while incorporating the latest Orion sensing technology, including DuraProbe™ 4-Electrode Conductivity Cells and state-of-the-art Orion galvanic D.O. cells. The meter is available in a complete field kit or in a meter and electrode package.

- **Simultaneous monitoring of pH and D.O. or Conductivity**
- **Fully waterproof to IP67 and NEMA 6**
- **120 point Datalogging and RS232, including GLPdoc™**
- **Full range of field and laboratory accessories**

Monitor pH and D.O. or pH and conductivity simultaneously with temperature, date, and time. The Model 1230 has Orion features that make accurate measuring simple. Datalogging and printing options offer data collection flexibility. GLPdoc™ "Good Laboratory Practices" features ensure proper documentation of calibrations and results.



SPECIFICATIONS	PH	MV	TEMPERATURE	DISSOLVED OXY.	SALINITY	CONDUCTIVITY
Range	-2.00 to 16.00	±1250	-5.0 to 99.9°C	0.0 to 90.0 mg/L, 0 to 600%	0.0 to 70.0ppt	0 to 500mS/cm
Maximum Res	0.01	1	0.1	0.01	0.1	0.01
Relative Acc.	±0.01	±2	±1.0	±0.5%, ±1 digit ±0.1, 0.0 to 42.0 at 5 to 25 °C		±0.5%, ±1 digit

DESCRIPTIONS

- **Meter and Electrode Package includes meter, pH electrode (91007WP), 1 ea. (2 oz.) pH 4, 7, and 10 buffers, 1 (2 oz.) pH storage solution, power supply & DIN to BNC Electrode Adapter.**
- **Field Kit includes meter, pH electrode (9107WP0), conductivity cell(013010), D.O. Probe(083010), Field Case, 2 electrode stands, 2 beakers, 1 ea. (2 oz.), 4, 7,&10 buffers, 1 pH (2 oz.)storage solution, 2 (2 oz.)1413 μS/cm conductivity standards, D.O. Probe Maintenance kit, DIN to BNC Electrode Adapter and Line Adapter.**
- **DuraProbe™ Conductivity Cell - K=0.475, Epoxy/Graphite, 3 meter cable, includes 2 conductivity standards.**
- **MSR™ Galvanic Dissolved Oxygen Probe - 3 meter cable, includes probe service kit, calibration sleeve.**
- **Waterproof Triode™ - 3-in-1 combo pH Electrode non-refillable, 1 meter cable.**
- **ATC Probe - stainless steel, for waterproof meters**
- **Field Case - carrying case w/ no accessories.**

AWS NO	SUP. NO.	PRODUCT	PRICE EACH
360-7538	123000	Meter and Electrode Package	1495.00
360-7552	123002	Meter Only	1350.00
360-6502	123003	Field Kit	2250.00
360-5229	013010	DuraProbe Conductivity Cell	350.00
360-6089	083010	MSR Galvanic Dissolved Oxygen Probe	543.00
361-2536	9107WP	Waterproof Triode	160.00
360-4682	917008	ATC Probe	193.00
360-8014	123050	Field Case	185.00

Dual Channel ISE/pH/mV/ORP/Temperature Benchtop Meter Model 720A—Orion

- **Use up to 5 Standards for Calibration**
- **Dual channels for multiple analyses**
- **Meet GLP Requirements with GLPdoc™**

With dual electrode inputs, the Model 720A allows two measurements at the same time. Perfect for a busy, multi-user laboratory. Measure pH with ROSS Resolution™ to 0.001pH units. The pH autocalibration feature recognizes 5 pH buffers using built-in buffer/temperature tables. Express concentration results to three significant digits. Full 5 point concentration calibration with automatic blank correction improves results of low level measurements. User prompting walks you through each meter operation.

Store data using the internal datalogger or print, via the RS232 with the optional Orion Model 900A printer or computer. GLPdoc records calibration parameters such as slope, temperature, mV of standards, and time and date of calibration, providing a convenient record-keeping system compatible with "Good Laboratory Practices."



Multi-Channel ISE/pH/mV/ORP/Temperature Benchtop Meter Model 920A—Orion

**920A****720A**

- **Advanced Features for ISE Measurements**
- **Automatic Blank Correction Calculations**
- **Electrode Switchbox Compatible for up to Seven (7) Channels!**

The Model 920A provides more features than ever before, making this meter easy to use and smart. Meter accepts up to 5 standards for concentration calibration to ensure low level measurement accuracy. Autoblack correction feature automatically corrects concentration results for background ion levels. Attach the Orion Model 607 Electrode Switchbox to work with up to 7 different electrodes. Other features adding to the ease of use include high and low alarm limits and display hold.

Model 920A advanced ISE features include pre-programmed incremental techniques, calibration edit, and temperature-compensated ISE measurement. Use calibration edit to review, delete, or re-measure calibration standards. Incremental techniques are fast and accurate, requiring no calibration before measurement. With GLPdoc, all measurement parameters, including slope, temperature, mV of standards, and time and date of calibration, automatically print on the optional Orion Model 900A printer, or to a computer via RS232.

SPECIFICATIONS:

		920A	720A
pH	pH range	-2.000-19.999	-2.000-19.999
	Resolution	0.001/0.01/0.1	0.001/0.01/0.1
	Relative Accuracy	±0.002	±0.002
	Slope	80 to 120%	80 to 120%
Concentration	Auto-Buffer Recognition	1.68, 4.01, 7.00, 10.01	1.68, 4.01, 7.00, 10.01
	Conc. Range	0.000-19900	0.000-19900
	Resolution	±one least sig. digit	±one least sig. digit
	Relative Accuracy	±0.5% of reading	±0.5% of reading
Temperature	Temp Range	-0.50-105°C	-0.50-105°C
	Resolution	0.1°C	0.1°C
	Relative Accuracy	±1.0°C	±1.0°C
	Millivolt Range	±1600.0mV	±1600.0mV
Millivolts	Relative Accuracy	±0.2 mV or ±0.5% of reading, whichever is greater.	±0.2 mV or ±0.5% of reading, whichever is greater.
	Rel. Millivolts	Relative Millivolts	Relative Millivolts
		±1999.9mV	N/A
		Relative Accuracy	Relative Accuracy
Inputs		±0.2 mV or ±0.5% of reading, whichever is greater.	N/A
	One BNC, one pin tip, ATC, Power, RS232		
Outputs	RS232		
Agency Approvals	CE, CSA, UL		

AWS NO	SUP. NO.	PRODUCT	PRICE EACH
360-4311	0920A0	110V w/Ross pH Electrode 8102BN)	2059.00
360-8119	0920A2	Meter and Manual only	1915.00
360-4290	0720A0	110V w/Ross pH Electrode (8102BN)	1338.00
360-8077	0720A2	Meter and Manual only	1199.00



Bench Meter, pH Model 430—Corning

When you need a basic, yet highly reliable meter, the 430 provides accurate, efficient digital measurements for applications performed in educational institutions or routine laboratories. Simplified, four-button operation and automatic temperature compensation reduce special training required to operate the system.

- **Basic... Reliable**
- **Unique LCD display shows meter status with analog scale for added confidence when studying electrochemical theory and acid-base titrations.**
- **Automatic Temperature Compensation**
- **% Slope Readout**
- **Analog Recorder Output**



Bench Meter, pH Model 440—Corning

The 440 features fully automatic performance and advanced software to make your applications easier than ever before. This all-purpose meter is rugged enough to service even the busiest academic and research and development laboratories while offering acutely accurate.



Bench Meter, pH Model 445—Corning

(next page)

pH/ion selective benchtop meters CONTINUED

Bench Meter, pH Model 445—Corning (continued)



Sophisticated software, microcomputer technology, and internal printer make the 445 our most flexible meter. Special user functions such as the data logger selectable high/low alarm in pH mode, and timer among others, suit this meter for high volume quality control laboratories to research facilities developing the latest scientific discoveries. Automatic and manual temperature compensations give the operator more control, and automatic read and endpoint sensing combine to reduce the number of keypad operations required for calibration and sample measurement. A self diagnostic test checks the meter upon power-up, and non-volatile memory will retain calibration and measurement data during power loss.

- **Display includes graphic icons.**
- **Internal printer provides immediate hard copy of results or allows recording of user-defined, timed interval measurements.**
- **% Slope Readout**
- **Select the resolution you need for your application.**
- **Allows for 3-point Calibration**

SPECIFICATIONS

Measurement Modes/Ranges

	430	440	445
pH	0.00 to 14.00	-1.99 to 16.00	-1.99 to 19.99
Absolute mV	0 to ±1999	0 to ±1999	0 to ±1999.9
Relative mV			0 to ±1999.9
Temperature °C	0 to 100	-5.0 to 105.0	-5.0 to 105.0

Resolution and Relative Accuracy

	430	440	445
pH	0.01 to ±0.01	0.01 / 0.1 and ±0.01	0.01 / 0.1 and ±0.01
Absolute mV	1 and ±1	1 and ±1	0.1 and ±0.2
Relative mV			0.1 and ±0.2
Temperature °C	1 and ±1	0.1 and ±1% (0-50°C) 0.1 and ±2% (50-100°C)	0.1 and ±1% (0-50°C) 0.1 and ±2% (50-100°C)

Temperature Compensation

	430	440	445
Automatic	0 to 100°C	-5 to 105°C	-5 to 105°C
Regulatory Compliance	UL/CSA/FCC.CE/ISO9001		

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
360-2553	475300	430 Meter Only (120V)	430.55
360-2545	475301	430 Meter with electrode, arm, kit (120V)	713.95
360-2585	475304	440 Meter Only (120V)	719.40
360-2577	475305	440 Meter with electrode, arm, kit (120V)	1002.80
360-2713	475317	445 Meter Only (120V)	1002.80
360-2705	475318	445 Meter with electrode, arm, kit (120V)	1286.50

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
360-1817	478109	Electrode Arm	96.90
360-1025	476436	3-in-1 Refillable Electrode	158.05
360-2209	476466	3-in-1 Gel Filled Electrode	147.15
360-2233	476146	High Performance Combo Electrode	250.70
360-3177	470493	Printer, Dot Matrix (440/445)	447.77
360-3553	477968	Temp. Probes, Stainless Steel Standard	1316.68



pH Electrodes-Epoxy Body Combination—Corning



Corning offers electrodes for a wide variety of applications. The general purpose electrode was designed for general use in aqueous solutions. It features Corning's patented replaceable junction for extended SP life.

PRODUCT DATA	General Purpose	
	pH Range	0 to 14
Reference	Internal Element	Silver Ion Barrier
	Fill Solution	3M KCl
	Junction Material	Replaceable Ceramic
Temperature	Operational Range	0 to 100°C
Overall Length	Cable Length	38"
Body Material	Fill Solution	477006
	Replaceable Junction	477269
Warranty	1 year	

AWS NO	SUP. NO.	DESCRIPTION	CONN. TYPES	INTERNAL ELEMENT	JUNCTION MAT	OVERALL LGTH	PRICE EACH
360-2113	476086	General Purpose	BNC	Silver Ion Barrier	Replaceable Cer	5.5"	132.98
360-2073	476087	General Purpose	US Std	Silver Ion Barrier	Replaceable Cer5	.5"	138.43



PRODUCT DATA	pHRange	0 to 14	
Reference	Internal Element	Fast Flow-Silver Ion Barrier	Gel Gen Purp - Ag/AgCl
	Fill Solution	Fast Flow-3M KCl	Gel Gen Purp - GEL
	Junction Material	Fast Flow-Annular	Gel Gen Purp - Ceramic
Temperature	Operational Range	Fast-Flow-0 to 100°C	Gel Gen Purp-0 to 80°C
Overall Length	Body/Tip	0.5"	
	Cable Length	38"	
Body Material	Fill Solution	477006	
	Replaceable Junction	477269	
Warranty		1 year	

AWS NO	SUP. NO.	DESCRIPTION	CONN. TYPES	INTERNAL ELEMENT	JUNCTION MAT	OVERALL LGTH	PRICE EACH
360-1897	476316	Fast-Flow	BNC	Silver Scavenger	Annular	6.75"	337.90
360-2081	476326	Gel Gen. Pur.	BNC	Ag/AgCl	Ceramic	5.5"	100.28
360-1905	476317	Fast-Flow	US Std	Silver Scavenger	Annular	6.75"	343.35
360-2089	476327	Gel Gen. Pur.	US Std	Ag/AgCl	Ceramic	5.5"	100.28

pH electrodes

Best Performance ROSS™ pH Electrodes—Thermo Orion

FASTER RESPONSE



If you are measuring samples that vary in temperature, or differ in temperature from your calibrating buffers, the ROSS Electrodes Special internal system provides Superior measurement stability, faster response, greater accuracy and more reproducible results than conventional electrodes. With ROSS Electrodes you avoid long-term drift or inaccurate readings, even in samples that vary in temperature, while conventional electrodes produce unstable results until they reach thermal equilibrium with the sample.

MODEL 81-55/56

Ross Combination with epoxy body

Recommended Use: General purpose when precise pH determination is required. Epoxy body for ruggedness and durability.

MODEL 81-04

ROSS Combination with glass body, rugged bulb

Recommended Use: Toughened bulb for rugged lab use and precise Q.C. measurements.

MODEL	81-04	81-55/56
pH Range	0-14	0-14
Temp. Range	0-100°C	0-100°C
Internal Ref.	ROSS	ROSS
Junction	Ceramic	Glass Fiber
Dimensions	165 mm x 6 mm	120 mm x 12 mm
	6mm section is	
	95 mm long	

AWS NO	SUP. NO.	MODEL	PH RANGE	TEMP. RANGE	CONN. TYPES	INTERN. REF.	JUNCTION	PRICE EACH
361-1353	815500	81-55/56	0-14	0-100°C	US Std	ROSS	Glass Fiber	302.00
361-1339	815600	81-55/56	0-14	0-100°C	BNC	ROSS	Glass Fiber	290.00
361-1409	8104BN	81-04	0-14	0-100°C	BNC	ROSS	Ceramic	311.00
361-1423	810400	81-04	0-14	0-100°C	US Std	ROSS	Ceramic	322.00



Best Performance ROSS™ pH Electrodes—Thermo Orion

SURE-FLOW® JUNCTION

The unique, free-flowing liquid-to-liquid junction assures you of the most stable, drift-free measurements. The easy-to-clean junction never clogs- simply press the cap and flush the junction area. Release the cap and the junction is reset. Now even the most problematic, dirty or viscous samples can be easily measured without a clogged junction!

MODEL 81-75

ROSS Sure-Flow Semi-Micro, epoxy body

Recommended Use: For use in test tubes and small samples; recommended for soil samples and viscous samples. Detachable bulb included.

Dimensions: 165 mm x 6mm 6mm section is 95 mm long

MODEL 81-72

ROSS Sure-Flow Combination with Glass Body

Recommended Use: General purpose, superior performance ideal for dirty, difficult samples such as soils, sludges, colloids, viscous materials and organics.

Dimensions: 120 mm x 12 mm

MODEL	81-72	81-75
pH Range	0-14	0-14
Temp. Range	0-100°C	0-100°C
Internal Ref.	ROSS	ROSS
Junction	Sure-Flow	Sure-Flow
Connector	BNC	BNC
Cable Length	1m	1m



AWS NO	SUP. NO.	MODEL	PH RANGE	TEMP. RANGE	CONN. TYPES	INTERNAL REF.	JUNCTION	PRICE EACH
361-1465	8175BN	81-75	0-14	0-100°C	BNC	ROSS	Sure-Flow	340.00
361-1472	8172BN	81-72	0-14	0-100°C	BNC	ROSS	Sure-Flow	340.00

Economy Line Electrodes—Orion

MODEL 91-05/06

Combination with epoxy body. Non-refillable

Recommended Use: Routine pH for rugged use, schools, field and plant applications.

Dimensions: 120mm x 12mm, cap dia 16mm

AWS NO	SUP. NO.	MODEL	PH RANGE	CONN. TYPE	TEMP. RANGE	INTERNAL REF.	JUNCTION	PRICE EACH
360-6768	910500	91-05/06	0-14	US Std	0-80°C	Ag/AgCl	Wick	107.00
360-6754	910600	91-05/06	0-14	BNC	0-80°C	Ag/AgCl	Wick	90.00

pH electrodes CONTINUED

Sure-Flow® Reference Electrodes—Orion

MODEL 90-01



Ag/AgCl Single Reference Half-Cell with epoxy body, Sure-Flow® Junction

Recommended Use: For many ISE determinations. For routine pH measurements with 91-01 or 91-61 Electrodes. Sure-Flow® Junction for easy cleaning.

Dimensions: 110mm x 12mm, cap dia 16mm

MODEL 90-02

Ag/AgCl Double Junction Reference Half-Cell with epoxy body, Sure-Flow® Junction

Recommended Use: Use for all ISE determinations. Use a variety of filling solutions. Sure-Flow® Junction for easy cleaning.

MODEL 90-04



Ag/AgCl Reservoir Reference half-cell with epoxy body, Sure Flow® Junction

Recommended Use: Filling solutions reservoir eliminates need for frequent refilling. For prolonged pH determinations.

AWS NO	SUP. NO.	MODEL	PH RANGE	CONN. TYPE	TEMP. RANGE	INTERNAL REF.	JUNCTION	PRICE EACH
361-1619	900100	90-01	N/A	DIN	0-100°C	Ag/AgCl	Sure-Flow	148.00
360-6173	900200	90-02	N/A	DIN	0-100°C	Ag/AgCl	Sure-Flow	180.00
361-1234	900400	90-04	N/A	DIN	0-100°C	Ag/AgCl	Sure-Flow	313.00

pH accessories

pH Electrode Cleaning Solution

AWS NO	SUP. NO.	PRODUCT NO	DESCRIPTION	PRICE EACH
050-4091	2794-16	94	Removes Protein Membrane/junction deposits	22.00

pH Electrode Storage Solution

AWS NO	SUP. NO.	PRODUCT NO	DESCRIPTION	SIZE	PRICE EACH
050-4098	2795-16		Storing pH glass and combo Electrodes	16 oz.	15.00

pH Electrode Filling Solution

AWS NO	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
050-7094	5899-4	3 Molar for refilling Reference Electrodes	4 oz.	6.00
050-7115	5899-16	3 Molar for refilling Reference Electrodes	16 oz.	11.00
050-7129	5900-4	Saturated Aqueous (4Molar) for refilling Calomel	4 oz.	6.00
050-7115	5900-16	Electrodes and Use as Ionic Strength Adjuster for Calcium Ion Selective Electrode	16 oz.	13.00
050-7108	5920-4	4 Molar Saturated w/Silver Chloride, for refilling	4 oz.	8.00
050-7136	5920-16	pH electrodes and Calcium Redox and Water Hardness Ion Selective Electrodes	16 oz.	11.00



Calibration Standards—Thermo Orion

AWS NO	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
361-2025	951007	for Ammonia Electrode, 1000 ppm as N	1 pt. (475m)	49.00
360-5340	941706	for Chloride Electrode, 0.1 M NaCl	1 pt. (475m)	68.00
360-5347	941707	for Chloride Electrode, 100 ppm as Cl	1 pt. (475m)	47.00
360-5333	941708	for Chloride Electrode, 1000 ppm as CaCO ₃ (NaHCO ₃)	1 pt. (475m)	47.00
360-6642	940906	for Fluoride Electrode, 0.1 M NaF	1 pt. (475m)	55.00
360-6628	940907	for Fluoride Electrode, 100 ppm F	1 pt. (475m)	46.00
360-6642	940906	for Fluoride Electrode, 1 ppm as F w/TISAB II	1 pt. (475m)	55.00
360-8196	920706	for Nitrate Electrode, 0.1 M NaNO ₃	1 pt. (475m)	57.00
360-8203	920707	for Nitrate Electrode, 1000 ppm as N	1 pt. (475m)	57.00
361-0254	921906	for Potassium Electrode, 0.1 M KCl	1 pt. (475m)	65.00
361-1913	941104	for Sodium Electrode, 5% NaCl (0.856 M)	1 pt. (475m)	97.00
360-3800	941105	for Sodium Electrode, 10 ppm as Na +	1 pt. (475m)	47.00
360-3814	941107	for Sodium Electrode, 100 ppm as Na+	1 pt. (475m)	47.00
360-3821	841108	for Sodium Electrode, 1000 ppm as Na+	1 pt. (475m)	47.00

Ionic Strength Adjusters—Thermo Orion

AWS NO	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
360-4549	951211	for Ammonia Electrode, pH adjusting ISA	1 pt. (475ml)	62.00
360-4346	940011	for Bromide, Cadmium, Chloride, Cupric, Iodide, Silver/Sulfide, Thiocyanate Electrodes	1 pt. (475ml)	55.00
360-5179	932011	for Calcium Electrode	1 pt. (475ml)	71.00
361-2347	940909	for Fluoride Electrode, TISAB II	1 gal.	90.00
360-8140	841111	for Sodium Electrode	1 pt. (475ml)	38.00

Filling/Maintenance Solutions—Thermo Orion

AWS NO	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
360-4507	951202	for Ammonia Filling Solution		47.00
361-0541	900012	Sodium, 0.1 M NH ₄ Cl	5 x 50 ml	82.00
361-0513	900010	Sodium, 2 M NH ₄ Cl	5 x 50 ml	82.00
360-8385	900046	Nitrate		69.00

pH/ion accessories CONTINUED

Unique Electrode Arm—Control Company



Fingertip control raises, lowers, and pivots the perfectly balanced electrode holder wherever desired. It moves in all directions, holding the electrodes safely and securely in any selected position. The electrode arm articulates at three points, so the electrodes always remain vertical.

Designed to accept any standard glass, reference, combination or other electrode a temperature probe or even a conductivity probe. Its weighted die-cast metal base and spring counterbalance permit fluid movement with superior stability.

Beware of cheap, plastic "look-a-likes" that have jerky, uneven motions. Complete with 21-inch arm, 8-inch diameter metal base, and holder. Weighs 6 pounds.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
360-1841	3090	Electrode Arm	70.00

ion selective electrodes

Ion Selective Electrodes—Thermo Orion

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH	AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
360-4514	951201	Ammonia Electrode with US Std.	520.00	360-7139	960900	Ionplus Comb Fluoride Elec, US Std.	599.00
360-4521	9512BN	Ammonia Electrode with BNC	509.00	360-7132	9609BN	Ionplus Comb Fluoride Elec, BNC	589.00
360-7069	963500	Ionplus Comb Bromide Elec, US Std.	568.00	360-7153	965300	Ionplus Comb Iodide Elec, US Std.	568.00
360-7062	9635BN	Ionplus Comb Bromide Elec, BNC	557.00	360-7146	9653BN	Ionplus Comb Iodide Elec, BNC	557.00
360-7083	964800	Ionplus Comb Cadmium Elec, US Std.	647.00	360-7167	968200	Ionplus Comb Lead Elec, US Std.	711.00
360-7076	9648BN	Ionplus Comb Cadmium Elec, BNC	663.00	360-7160	9682BN	Ionplus Comb Lead Elec, BNC	700.00
360-7174	9720BN	Ionplus Comb Calcium Elec, BNC	649.00	360-7181	9707BN	Ionplus Comb Nitrate Elec, BNC	663.00
360-5263	950200	Carbon Dioxide Electrode	584.00	360-7202	9746BN	Ionplus Nitrite Elec, BNC	658.00
360-5256	9502BN	Carbon Dioxide Elec W/BNC	573.00	360-6229	970800	Dissolved Oxygen Electrode	921.00
360-7097	961700	Ionplus Comb Chloride Elec, US Std.	568.00	360-6222	970899	Dissolved Oxygen Elect. with BNC Con.	908.00
360-7090	9617BN	Ionplus Comb Chloride Elec, BNC	557.00	360-7188	9719BN	Ionplus Comb. Potassium Elec, BNC	693.00
360-5410	977000	Chlorine Electrode, US Std.	461.00	360-5466	967800	Comb Redox Electrode, US Std.	323.00
361-1241	9770BN	Residual Chlorine Elec, BNC	451.00	360-5459	9678BN	Comb Redox Elec, BNC	313.00
361-1248	9770SC	Residual Chlorine Elec. with Scr Cap	440.00	360-7055	961600	Ionplus Comb AG/Sulfide Elec, US Std.	599.00
360-7111	962900	Ionplus Comb Cupric Elec, US Std.	711.00	360-7048	9616BN	Ionplus Comb AG/S Elec, BNC	589.00
360-7104	9629BN	Ionplus Comb Cupric Elec, BNC	700.00	360-5480	9780SC	Combination Silver Redox Elec with S/C	180.00
360-7125	960600	Ionplus Comb Cyanide Elec, US Std	573.00	361-1311	8611BN	Ross Combination Sodium Electrode	435.00
360-7118	9606BN	Ionplus Comb Cyanide Elec, BNC	562.00	360-7958	9811BN	Micro-Sodium Comb. Elec, BNC	373.00



pipets, dropping

Barnes Dropping Bottle—Wheaton

The lower portion of the rubber bulb forms a tightly fitting stopper. Wheaton “400” borosilicate glass (meets USP Type I standards).

AWS NO	SUP. NO.	DESCRIPTION	QTY/CASE	CASE PRICE
470-9313	211533	Bulb & Pipette	100	78.95



pipets, measuring

Reusable Glass, Measuring Pipet, Color-Coded, with Colored Markings—Corning

These pipets are color-coded by size for easy identification and sorting. Colored graduations are enameled onto the glass. The top end of 5 to 25mL sizes is constricted (Mohr type). They are calibrated “to deliver” their total capacity without blow-out. Reference: ASTM E- 1293.

AWS NO	SUP. NO.	CAP. ML	GRAD. INTERVAL ML	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
012-4377	7065-1	1	0.1	6	12	36.69	69.48
012-4401	7065-1C	1	0.01	6	12	40.81	77.28
012-4505	7065-2	2	0.1	6	12	41.20	78.00
012-4689	7065-5	5	0.1	6	12	41.20	78.00
012-4345	7065-10	10	0.1	6	12	47.68	90.36
012-4553	7065-25	25	0.1		12		138.39

pipets, pasteur

Pasteur, KIMAX-51®—Kimble

The KIMAX-51® borosilicate glass composition assures the best all-around chemical durability of commercial glasses available for our Pasteur pipets. It complies with ASTM Specification E438 for Type I, Class B glass requirements. Pipets are uniquely designed to receive and prevent a cotton plug from slipping into the body of the pipet while maintaining proper wall weight to strengthen the pipet and prevent accidental breakage at the top end. Cotton plugs are not supplied. Tips are held to close diameter tolerances and ends are square cut. Furnished in shelf package quantities of 250, suitable for bench top dispensing. Designed from ASTM Specification E732, Type I and II requirements.

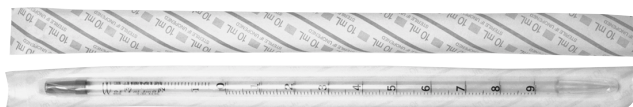
The KIMAX-51® flint glass composition is also offered.

AWS NO	SUP. NO.	APPROX. LGTH IN	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
020-3553	72050-575	5.75" Borosilicate	250	1000	11.75	41.91
020-3569	72050-900	9" Borosilicate	250	1000	16.18	46.44
020-3593	72030-575	5.75" Flint Glass	250	1000	11.25	47.28
020-3609	72030-900	9" Flint Glass	250	1000	17.75	52.53



pipets, serological, disposable, plastic

Individually Wrapped, Plugged, Sterile—Kimble



Provided with “negative” graduations to increase the versatility of the pipet. These Kimble pipets are packaged in a new color-coded paper/plastic individual wrap for speed and accuracy in selecting the correct size pipet. This allows user the option of either a snap-through or peel-away opening method to satisfy any sterile technique. The new 5 mL is now a two-piece design. Designed from ASTM Specification E934.

AWS NO	SUP. NO.	CAP	SUBDIVISION	NEG. GRAD	WRAP COLOR	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
040-5353	56900-1110	1 ml	0.1 ml	0.3 ml	Red	200	1000	51.75	209.97
040-5377	56900-11100	1 ml	0.01 ml	0.3 ml	Yellow	200	1000	51.75	209.97
040-5449	56900-21100	2 ml	0.01 ml	0.3 ml	White	125	500	35.75	122.75
040-5497	56900-5110	5 ml	0.1 ml	2 ml	Blue	50	200	19.25	69.30
040-5433	56900-10110	10 ml	0.1 ml	3 ml	Orange	50	200	24.60	72.52
040-5481	56900-25210	25 ml	0.2 ml	10 ml	Green	50	200	43.16	145.32
040-5521	56900-50510	50 ml	0.5 ml	10 ml	Purple	25	100	48.13	180.23

Canister Pack, Plugged, Sterile—Kimble

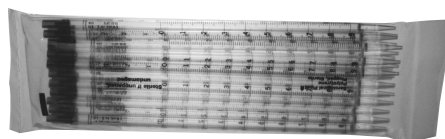
POLYSTYRENE



These Kimble pipets are packaged in a convenient recloseable canister pack. Each canister contains 50 pipets sealed in a plastic bag. Designed from ASTM Specification.

AWS NO	SUP. NO.	CAP	SUBDIVISION	NEG. GRAD	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
040-5369	56700-11100	1 ml	0.01 ml	0.3 ml	50	500	13.50	117.78
040-5465	56700-21100	2 ml	0.01 ml	0.3 ml	50	500	15.75	138.45
040-5505	56700-5110	5 ml	0.1 ml	2 ml	50	500	24.15	202.22
040-5441	56700-10110	10 ml	0.1 ml	3 ml	50	500	26.85	216.64

Multi-Pack, Plugged, Sterile—Kimble



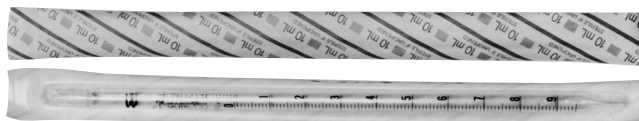
These pipets are packaged in a multi-pack bag. Provided with negative graduations to increase the versatility of the pipet. The new 5 mL is now a two piece pipet. Plastic bags contain 25 pieces, except the 25 and 50 mL sizes which contain 10 pieces. Designed from ASTM Specification E934.

AWS NO	SUP. NO.	CAP	SUBDIVISION	NEG. GRAD	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
040-5361	56800-1110	1 ml	0.1 ml	0.3 ml	25	1000	6.15	197.61
040-5385	56800-11100	1 ml	0.01 ml	0.3 ml	25	1000	6.15	187.74
040-5457	56800-21100	2 ml	0.01 ml	0.3 ml	25	500	7.65	124.64
040-5489	56800-5110	5 ml	0.1 ml	2 ml	25	500	8.55	144.00
040-5417	56800-10110	10 ml	0.1 ml	3 ml	25	500	9.75	161.45
040-5473	56800-25210	25 ml	0.2 ml	10 ml	10	200	8.40	141.52
040-5513	56800-50510	50 ml	0.5 ml	10 ml	10	100	20.55	173.34



pipets, serological, glass, disposable

Individually Wrapped, Plugged, Sterile, T.D.—Kimble



These Kimble pipets are packaged in new color-coded paper/plastic individual wrap for speed and accuracy in selecting the correct size pipet. This allows user the option of either a snap-through or peel-away opening method to satisfy any sterile technique.

AWS NO	SUP. NO.	CAP	SUBDIVISION	NEG. GRAD	WRAP COLOR	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
020-3673	72015-1110	1 ml	0.1 ml	0.2 ml	Red	200	1000	61.55	248.04
020-3713	72105-11100	1 ml	0.01 ml	0.2 ml	Yellow	200	1000	61.55	248.04
020-3825	72105-21100	2 ml	0.01 ml	0.2 ml	White	125	500	47.15	146.46
020-3921	72105-5110	5 ml	0.1 ml	1 ml	Blue	100	500	49.85	203.88
020-3769	72105-10110	10 ml	0.1 ml	2 ml	Orange	100	500	52.35	215.64

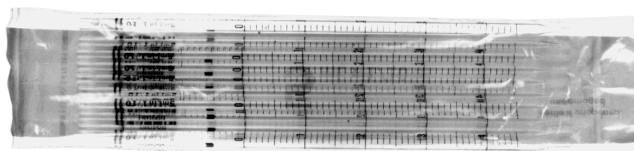
Canister Pack, Plugged, Sterile, T.D.—Kimble

These Kimble pipets are packaged in a convenient recloseable canister pack. Each canister contains 50 pipets sealed in a plastic bag.



AWS NO	SUP. NO.	CAP	SUBDIVISION	NEG. GRAD	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
020-3705	72102-11100	1 ml	0.01 ml	0.2 ml	50	500	12.15	104.46
020-3849	72102-21100	2 ml	0.01 ml	0.2 ml	50	500	16.75	138.62
020-3945	72102-5110	5 ml	0.1 ml	1 ml	50	500	19.85	167.64
020-3793	72102-10110	10 ml	0.1 ml	2 ml	50	500	25.45	206.99

Multi-Pack, Plugged, Sterile, T.D.—Kimble



Sizes 1 and 2 mL are packaged 25 pieces in a sterile plastic bag, sizes S and 10 mL are 10 per bag

AWS NO	SUP. NO.	CAP	SUBDIVISION	NEG. GRAD	WRAP COLOR	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
020-3665	72100-1110	1 ml	0.1 ml	0.2 ml	Red	250	1000	69.85	230.38
020-3729	72100-11100	1 ml	0.01 ml	0.2 ml	Yellow	250	1000	69.85	224.07
020-3841	72100-21100	2 ml	0.01 ml	0.2 ml	White	250	500	72.35	124.61
020-3937	72100-5110	5 ml	0.1 ml	1 ml	Blue	250	500	99.25	171.41
020-3785	72100-10110	10 ml	0.1 ml	2 ml	Orange	250	500	115.00	192.61

pipets, serological reusable glass

Standard Top (Style I)—Kimble



The 0.5 mL pipets are shorter than the usual serological pipet. It is therefore simpler to transfer material to a slide because it is easier to control the top of the shorter instrument. When 0.05 mL quantities are wanted, the 0.5 mL pipet with 0.05 mL subdivisions is recommended, since nonessential graduations have been omitted. The capacities of the 0.5 mL pipets are ideal for syphilis testing, including VDRL tests. Most procedures require less than 0.5 mL of serum. Designed from ASTM Specification E1044, Style I requirements.

AWS NO	SUP. NO.	CAP	SUBDIVISION	BAND COLOR	QTY/CASE	CASE PRICE
012-5297	37033-110	0.1 ml	0.01 ml	White	12	74.15
012-5225	37033-1110	1 ml	0.1 ml	Red	12	71.38
012-5257	37033-11100	1 ml	0.01 ml	Yellow	12	79.70
012-5457	37033-2110	2 ml	0.01 ml	Green	12	79.70
012-5473	37033-21100	2 ml	0.01 ml	2 White	12	104.90
012-5641	37033-5	5 ml	0.1 ml	Blue	12	79.70
012-5377	37033-10	10 ml	0.1 ml	Orange	12	84.55

Large Tip Opening (Style III) (tooled top for cotton plugging)—Kimble



With a large tip opening for faster delivery, but less accuracy. Top end has been tooled to accept cotton plugging on all sizes. The 1 and 2 mL sizes have tip openings slightly smaller than the bore of the graduated portion, while the larger sizes have openings of approximately 3 mm. For use with viscous liquids, slurries and suspensions. Designed from ASTM Specification E1044. Style III requirements. Cotton plugs are not supplied.

AWS NO	SUP. NO.	CAP	SUBDIVISION	BAND COLOR	QTY/CASE	CASE PRICE
012-5201	37034B-1	1 ml	0.1 ml	Red	12	99.10
012-5497	37034B-2	2 ml	0.1 ml	Green	12	115.04
012-5625	37034B-5	5 ml	0.1 ml	Blue	12	115.04
012-5361	37034B-10	10 ml	0.1 ml	Orange	12	126.96
012-5545	37034B-25	25 ml	0.1 ml	White	12	690.16

pipets, transfer, disposable

General Purpose Transfer Pipets—Samco

AWS NO	SUP. NO.	DESCRIPTION	LGTH	STEM DIA	CAP	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
041-7072	202	Gen. Pur. Std	15 cm	7.8 mm	7 ml	500	5000	20.30	203.00

Graduated Transfer Pipets—Samco

AWS NO	SUP. NO.	DESCRIPTION	LGTH	STEM DIA	CAP	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
041-7135	212	Grad. 1 mL Sm. Bulb	13.8 cm	5 mm	3 ml	500	5000	20.30	203.00
041-7114	222	Grad. 1 mL Lrg. Bulb	15 cm	5 mm	5 ml	500	5000	19.80	198.00
041-7177	225	Grad. 3 mL Lrg. Bulb	15 cm	7.8 mm	7 ml	500	5000	20.30	203.00

PYREX® brand, Reusable Glass Volumetric, Class A, Color-Coded, Colored Markings—Corning

These pipets are manufactured to Class A capacity tolerances as indicated by ASTM E-969. The rugged construction, colored enamel graduations and markings provide a pipet which will give good life and service. Sizes 1mL through 25mL are color-coded.

AWS NO	SUP. NO.	COLOR CODE	CAP	QTY/CASE	EACH PRICE	CASE PRICE
012-4241	7100-1	Blue	1 ml	12	9.15	87.90
012-4425	7100-2	Orange	2 ml	12	9.15	87.90
012-4561	7100-3	Black	3 ml	12	9.15	87.90
012-4585	7100-4	Red	4 ml	12	9.15	87.90
012-4601	7100-5	White	5 ml	12	9.15	87.90
012-4281	7100-10	Red	10 ml	12	10.20	97.97
012-4409	7100-15	Green	15 ml	12	14.55	139.52
012-4465	7100-20	Yellow	20 ml	12	14.90	142.83
012-4529	7100-25	Blue	25 ml	12	15.95	152.91
012-4649	7100-50		50 ml	12	20.95	201.17
012-4305	7100-100		100 ml	12	29.70	284.88

Pipets

SIBATA brand, Reusable Glass, Volumetric, Class A, Color-Coded, with Colored Markings, To Deliver

AWS NO	SUP. NO.	CAPACITY	QTY/PACK	QTY/CASE	EACH PRICE	PACK PRICE	CASE PRICE
471-3908	2040A-05	0.5 ml	12	72	4.32	36.60	219.60
471-3915	2040A-1	1 ml	12	72	3.24	27.60	165.60
471-3922	2040A-2	2 ml	12	72	4.95	30.48	182.88
471-3929	2040A-3	3 ml	12	72	5.15	33.36	200.16
471-3936	2040A-4	4 ml	12	72	5.15	33.36	200.16
471-3943	2040A-5	5 ml	12	72	5.65	35.52	213.12
471-3950	2040A-10	10 ml	12	72	6.00	40.08	240.48
471-3957	2040A-15	15 ml	6	36	6.25	27.52	165.12
471-3964	2040A-20	20 ml	6	3	7.10	28.26	169.56
471-3971	2040A-25	25 ml	6	3	7.85	31.26	187.56
471-3978	2040A-50	50 ml	6	3	9.72	47.40	284.40
471-3985	2040A-100	100 ml	6	36	11.62	76.68	460.08

pipets, accessories

Rubber Eye Dropper & Syringe Bulbs



AWS NO	SUP. NO.	CAPACITY	BORE SIZE	DIAMETER	LENGTH	QTY/PK	PACK PRICE
064-4367	200-1A	1 cc (1/30 oz.)	1/4" (6 mm)	9/16" (14 mm)	1 1/2" (37 mm)	12	6.40
064-4311	200-2A	2 cc (1/15 oz.)	1/4" (6 mm)	5/8" (18 mm)	1 3/4" (45 mm)	12	7.60
064-4318	200-2B	2 cc (1/15 oz.)	1/4" (6 mm)	1/2" (6 mm)	1 1/4" (32 mm)	12	4.60
064-4325	200-2C	2 cc (1/15 oz.)	5/32" (4 mm)	15/16" (23 mm)	1 5/16" (33 mm)	12	26.38
064-4339	200-5	5 cc (1/6 oz.)	5/32" (4 mm)	1 1/4" (29 mm)	1 5/8" (41 mm)	12	27.38
064-4353	200-8	8 cc (1/4 oz.)	5/32" (4 mm)	1" (25 mm)	1 1/2" (40 mm)	12	19.38

Pipette Fillers

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
061-5801	BLK-001	Safety Pipette Filler-Black	18.00
061-5825	RED-001	Safety Pipette Filler-Red	18.00
061-5809	BLU-001	Safety Pipette Filler-Blue	18.00
061-5817	GRN-001	Safety Pipette Filler-Green	18.00
061-5833	SILBLK-001	Silicone Safety Pipette Filler-Black	27.00
061-5841	SILRED-001	Silicone Safety Pipette Filler-Red	27.00
061-5793	MULIPIP	Multi-Colored Pipette Filler	22.60

The Pipette Pump™—Bel-Art

COLOR-COATED PIPETTING DEVICE.

This handy device provides safe, accurate, and trouble-free pipetting with simple, one-handed operation. Pipettes fit smoothly into its flexible tapered chuck. The thumbwheel on the side is rotated for precision filling or dispensing and the plunger may be pressed for quick emptying. It resists acids and alkalis, and is easily disassembled for cleaning. Fits standard or disposable pipettes and disposable serological tooled-mouthpiece pipettes as per ASTM Standard E714-80.

AWS NO	SUP. NO.	FOR PIPETTES UP TO	COLOR	PRICE EACH
221-0857	F37897-0000	2 ml	Blue	14.50
221-0417	F37898-0000	10 ml	Green	15.25
221-0801	F37899-0000	25 ml	Red	20.80



Fast-Release Pipette Pump™—Dynalox

This fast-release pipetting device provides easy, precise pipetting and features a rapid-release lever for zip-quick emptying. It is made expressly for pipettes that are calibrated to the tip but not to be blown out (retains final drop). Rotating the knurled thumbwheel draws up or dispenses liquid. The soft elastic chuck has a threaded collar that tightens to grip glass or plastic pipettes securely. Easy to take apart for cleaning. Sizes are color coded.

AWS NO	SUP. NO.	FOR PIPETTES UP TO	COLOR	PRICE EACH
031-4729	311065	2 ml	Blue	15.75
031-4737	311085	10 ml	Green	15.75
031-4745	311105	25 ml	Red	20.15

Macro™—BrandTech

The world's most advanced manual pipette controller is now even better. The unique valve system is designed for better airflow and one handed operation. The single lever allows for precise meniscus control. A hydrophobic filter prevents liquid penetration of the valve system. The eco-nomical macro ~ Pipette Controller adapts to pipettes from 0.1 to 100 ml

AWS NO	SUP. NO.	COLOR	PRICE EACH
340-2873	2 0260 02	Gray	56.00
340-2865	2 0260 03	Blue	56.00
340-2889	2 0060 04	Magenta	56.00
340-2905	2 0260 05	Yellow	56.00
340-2881	2 0260 06	Green	56.00
340-2897	2 0260 07	Mint	56.00



Pipette Rack—Dynalox

Clear acrylic pipette rack permits easy storage and access to plastic or glass pipettes. The four shelves have an upward angle for more secure storage.

Measures 3 3/8 W x 12 1/4 D x 13" H O.D.

AWS NO	SUP. NO.	PRICE EACH
031-4537	186665	86.13

Pipette Rack (HDPE)—Dynalox

A white molded rack which will support 12 straight or small bulb pipettes over 200 mm long. It is a very stable rack supplied as a kit of two end pieces and three connecting rods for push-fit assembly in seconds and can be easily dismantled for storage when not needed.



AWS NO	SUP. NO.	PRICE EACH
031-4529	511235	15.40

pipets, accessories CONTINUED

Pipette Storage Tray—Bel-Art

This double decked pipette holder has a heavy duty, epoxy-coated welded wire frame. Six compartments hold pipettes, rods or other long thin tools. Each tray has three compartments, two are 3 1/2" (89 mm) wide and one is 5" (127 mm) wide. Trays are open ended for easy access to pipette ends and are 12" (305 mm) deep. Dimensions are 13" x 14 1/2" x 8 1/4" high (33 x 37 x 22 cm).

AWS NO	SUP. NO.	PRICE EACH
031-4561	H18951-0000	100.98

Pipet Support Rack Polypropylene—Bel-Art

For orderly, space-saving pipette storage, this sturdy rack holds pipettes in a vertical 5x10 arrangement. Top and middle decks have 16 mm diameter holes; bottom deck holes are tapered from 16 mm to 6 mm diameter. Pipette tips will not contact table surface. End plates have handles. Autoclavable at 250°F(121°C).
8 3/8" x 4 1/2" x 8 3/4" high (213 x 114 x 222 mm).

AWS NO	SUP. NO.	PRICE EACH
031-5257	F18953-0000	29.98

Pipet Canisters—Boekel

Boekel now offers Pipet Canisters fabricated from either stainless steel or the new high temperature plastic material Ultem® 1000. Both types of cans are well suited for sterilizing pipets either by autoclaving or with dry heat.

STAINLESS STEEL PIPET BOXES

Made from type 304 stainless steel, these pipet canisters offer high resistance to corrosion. Square canisters are available in three lengths (6", 9", 16") each 2" square. Cylindrical can is 16" long and 2" diameter.

ULTEM® 1000 PIPET CANS

These patented pipet cans are fabricated from polyetherimide resin and offer outstanding physical properties enabling them to withstand repeated steam and dry heat sterilization up to 200°C. Transparent for easy visibility of contents, these cans are easy to clean and are virtually indestructible. Ultem cans are particularly useful for sterilizing and containing pipets that are used in work sensitive to metallic ion contaminants. Each can has a flat edge on its base to prevent rolling. Available in three lengths (6", 9", 16") each 2" in diameter.

AWS NO	SUP. NO.	MATERIAL	DIMENSIONS	SHAPE	PRICE EACH
061-5681	1360S	Stainless Steel	5.1 cm (2") x 5.1 cm (2") 41.9 cm (16 1/2")	Square	69.00
061-5689	1367S	Stainless Steel	6.4 cm (2 1/2") Dia x 41.9 cm (16 1/2")	Round	58.85
061-5673	1369S0	Stainless Steel	5.1 cm (2") x 5.1 cm (2") 23.5 cm (9 1/4")	Square	29.45

Automatic Pipette Washing Set, Dynalon®

WILL TAKE PIPETTES UP TO 24" LONG - HIGH QUALITY

Solve the problem of washing pipettes speedily, safely and with little effort. Indispensable in the laboratory where radioactive, caustic and toxic materials are in use. Its construction of low density polyethylene reduces breakage and is particularly safe as it buffers the tips of pipettes against the bottom of the jars. Back-siphoning is eliminated because of water inlet location atop of rinser. Diameter of tubing permits water to drain completely. Rinser repeats automatically. Two or three baskets can be used with one or two jars and one rinser for economy of operation. Since the soaking operation takes the longest, two or three batches of glassware can be soaking at the same time. Fits pipettes up to 24" long.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
030-4809	215905	Automatic Pipette Washer (25.5" H x 6.5" dia.)	162.03
031-4513	215915	Pipette Jar (25.5" H x 6.5" dia.)	76.45
031-4473	215925	Pipette Basket (26" H x 5" dia.)	53.13



Vacuum Pressure Pump

APPLICATIONS

The Vacuum Pressure Pump is recommended when filtering aqueous samples. This unit will maintain continuous and constant vacuum which is critical when filtering microbiological samples. In addition this unit can be used as a source of positive pressure for positive pressure filtration (<60psi). In this mode the unit should be mounted with a gas line holder.

Sup. Model **800800**

Materials: Wetted parts are aluminum, stainless steel, and Nordell Nomax.

Connections: Inlet and outlet ports, 1/4 inc. NPTF thread

Operation: 115 VAC, 60 Hz, 220V/50 Hz

Max Pressure: 60 PSI

Max Vacuum: 24in.hG

Max Inlet Temperature: 100°F (37.8°C)

Free Air Capacity: 1.2 cfm

Shipping Wt: 20 lbs (9.1 kG)

REPLACEMENT PARTS

Service Kit, this includes a replacement head gasket, filter, muffler elements, leaf valves, screws and valve retainers.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
223-8994	800800	Vacuum Pressure Pump, 115V	674.15
	800810	Service Kit	
	800820	Vacuum regulator assembly	
	800830	Pressure regulator assembly	

pumps, vacuum belt drive

Duoseal® Vacuum Pumps—Welch

LONG SERVICE LIFE DUE TO LOW PUMP RPM

Welch Model **1405B-01**

Free Air Displacement

CFM	2.1
L/min	60
Ultimate Pres. (Torr)	3 x 10 ⁻⁴
Oil Capacity, qt.	0.43
Tubing Needed, ID in.	7/16
Exhaust Connection	3/4-20

OVERALL DIMENSIONS

L in.	15
W in.	13
H in.	18

AWS NO	SUP. NO.	ELECTRICAL	PRICE EACH
223-7930	1405B-01	115V, 60Hz, 1PH	1715.00

pumps, vacuum direct drive

Directorr® Vacuum Pumps, two-stage—Welch

LIGHTWEIGHT, COMPACT, HIGH PERFORMANCE PUMPS

Welch Model 8905A

Free Air Displacement

CFM (L/min) @ 60 Hz 1.8(51)

CFM (L/min) @ 50 Hz 1.5(43)

Ultimate Pres. (Torr) 2×10^{-3}

Oil Capacity, qt. 0.48

Tubing Needed, ID in. 7/16

Intake Connection 3/8 in.

NW 25 Threaded Hose Barb Threaded

3/4-20

OVERALL DIMENSIONS

L in. 14.1

W in. 5.1

H in. 8.4

AWS NO	SUP. NO.	ELECTRICAL	PRICE EACH
223-9246	8905A	115V, 60Hz, 1PH	1425.00

pumps, accessories

Welch - For a complete list of parts for Welch Pumps, request a copy of the Welch Catalog.

Standard Exhaust Filters—Welch

AWS NO.	SUP. NO.	USE WITH PUMP	DIM.	DESCRIPTION	PRICE EACH
063-7038	1417	8803, 8804, 8890, 8905, 8910, 1392, 1399, 1400, 1405	2.5 x 2.5	Filter	105.00
063-7850	1417L	8803, 8804, 8890, 8905, 8910, 1392, 1399, 1400, 1405	2.5 x 2.5	Filter 1417	56.00

Duoseal® Vacuum Oil—Welch

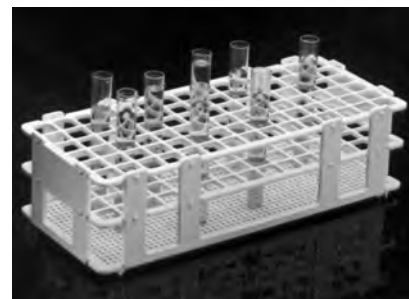
- **Low vapor pressure** • Ideal viscosity for Welch DUOSEAL vacuum pumps
- **No additives or inhibitors** • The only oil recommended for DUOSEAL vacuum pumps
- **Specially fractionated for DUOSEAL pumps** to ensure the highest vacuum performance. Tested to high vacuum levels, this oil meets rigid requirements for vapor pressure, stability, viscosity, etc. DUOSEAL oil is famous for its quality and consistency.

AWS NO.	SUP. NO.	SIZE	PRICE EACH
063-6212	1407K-11	Quart	15.35
063-6191	1407K-15	Gallon	38.75
063-6198	1407K-20	5 Gallon	165.00



No-Wire Autoclavable Test Tube Racks—Bel-Art

A money-saving alternative to wire racks, with price and space advantages over other plastic racks currently available. These submersible racks are molded of a special blend of autoclavable polypropylene so that they sink in a water bath and maintain their stability even in agitated water. These No-Wire™ racks are also perfect for use outside the water bath, and meet the exacting needs of daily usage in the lab. The racks are supplied in numerous hole sizes. Each rack features end plates for labeling as well as numbered and lettered rows for tube identification. Interlocking feet allow stacking of racks during storage, or racks can be disassembled back to the flat shipping configuration for long-term storage. This allows you to anticipate future needs. Outside dimensions of all are the same, 9.7"x4.1"x2.5 high (246x104x64 mm). Assembly takes only seconds. The base is in the form of a grid with holes .085" (2.16 mm) square, and has fold-up sides and end bars that lock into rack tops.



AWS NO.	SUP NO.	COLOR	HOLDS TUBES	PLACES	ROWS	PRICE EACH
060-1809	F18745-0000	White	13 mm	90	6x15	9.85
060-1849	F18745-0001	White	16 mm	60	5x12	9.85
060-1873	F18745-0002	White	20 mm	40	4x10	9.85
060-1897	F18745-0003	White	25 mm	24	3x8	9.85
060-1921	F18745-0004	White	30 mm	21	3x7	9.85

No-Wire™ Grip Racks—Bel-Art

Test tubes 'hang in there' in any position, even inverted.

The No-Wire™ Grip Racks will assist you in decanting and in water bath work. Four retainer fingers in the two plates of the rack hold tubes firmly in any position with no fear of their dislodging while decanting. The racks are molded of a special blend of autoclavable polypropylene that is heavier than water for submerging in water baths. They are also perfect for use outside of a water bath. Each rack features end plates for labeling as well as numbered and lettered rows for tube identification. The grid base has square holes 0.2" (5 mm) wide and fold-up sides that lock into the grip decks. Assembly takes only seconds. All are 9 3/4" x 4 1/8" x 2 3/4" high (248 x 105 x 70 mm). Unloaded racks are stackable. .



AWS NO.	SUP NO.	HOLDS TUBES	PLACES	ROWS	PRICE EACH
060-1425	F18749-0000	10-13 mm	90	6x15	12.21
060-1417	F18749-0001	15-16 mm	60	5x12	12.21
060-1409	F18749-0002	18-20 mm	40	4x10	12.21

Thermometer Rack (HDPE)—Dynalon

Suitable for holding up to 25 thermometers in the correct vertical position, thus avoiding mercury separation, which may occur when thermometers are stored improperly. Manufactured from high density polyethylene, the rack is sturdy and will not tip. Sides have large comfortable carry handles for easy transport of the thermometers. Hole diameters in top and middle plates. The bottom plate has convenient 14" drain holes. Overall dimensions are 8"W x 10" H x 5/4" D.

AWS NO.	SUP NO.	DESCRIPTION	PRICE EACH
610-9305	103205	Thermometer Rack	27.72

Imhoff Cone Racks (HDPE)—Dynalon

Heavy duty welded construction by Dynalon of rigid, high-density polyethylene to support four Imhoff Cones. Cones can be easily read with minimum interference due to design of racks. Approximately 15" x 8" x 47" high.

AWS NO.	SUP NO.	DESCRIPTION	PRICE EACH
031-2033	140344	Imhoff Cone Rack	109.10

Cool-Lab® Refrigerators—Lab-Line

- General purpose units
- CFC-free insulation and coolant
- 12 month warranty

MODEL 3751, UNDERCOUNTER

- Undercounter refrigerator
- 5.5 cu. ft. interior capacity
- Off-cycle defrost
- Adjustable hydraulic thermostat control
- Three adjustable wire shelves, three door shelves
- Key lock

MODEL 3766, UPRIGHT

- Frost-free refrigerator
- 20 cu. ft. interior capacity
- Five permanently mounted shelves plus storage basket
- Hydraulic thermostat
- Automatic defrost
- Locking door comes standard



AWS NO.	SUP NO.	VOLTS	REF CHAMBER DIM	FREEZER CHAMBER DIM	VOL CU. FT.	EXTERIOR DIM.	TEMP RANGE (REF/FREEZER)	PRICE EACH
223-9568	3751	120	20 1/2 x 18 3/8 x 29	N/A	5.5	23 3/8 x 23 3/4 x 33 1/3	2° to 7°	1254.00
223-9484	3766	120	27 x 17 3/4 x 57	N/A	20	27 x 17 3/4 x 57	-5° to 15°	2475.00

rulers

Meter sticks, wooden

Wooden meter sticks 1" (29mm) wide and 1/4" (6 mm) thick with a clear lacquer finish.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
064-2708	605-050		9.75
064-6502	605-051	Metal tips at both ends.	11.75



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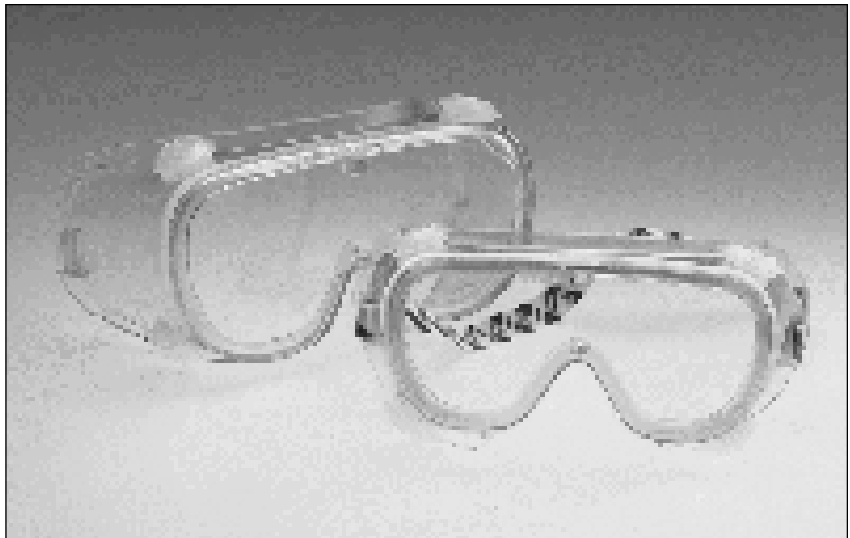


Face-Fit™ General Purpose Goggles—Oberon

- Perforated vent frame for chipping and grinding
- Available in both Standard and Junior Sizes

AWS NO	SUP. NO.	DESCRIPTION - FRAME COLOR & LENS	SIZE	PRICE EACH
070-7442	6000	Std. Light Green tint goggle frame w/Clear lens	Standard	2.15
070-7449	6300	White Colorflex™ goggle frame w/Clear lens	Standard	2.35
070-7456	6400	Blue Colorflex™ goggle frame w/Clear lens	Standard	2.35
070-7463	6500	Red Colorflex™ goggle frame w/Clear lens	Standard	2.35

Face-Fit™ Permanent Antifog Cover Goggles—Oberon



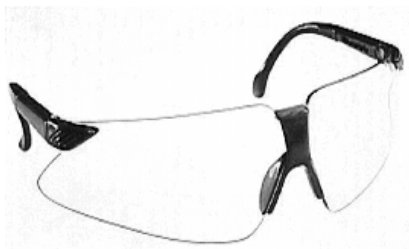
- Indirect Vent Splash Goggle Frame

AWS NO	SUP. NO.	DESCRIPTION - FRAME COLOR & LENS	SIZE	PRICE EACH
070-7498	7006	Economy Permanent Antifog Clear Lens	Standard	3.45
070-7505	7306	White Colorflex™ goggle frame w/Clear Antifog Lens	Standard	3.95
070-7512	7406	Blue Colorflex™ goggle frame w/Clear Antifog Lens	Standard	3.95
070-7519	7506	Red Colorflex™ goggle frame w/Clear Antifog Lens	Standard	3.95
070-7554	7004	Scratch Resistant outside and Antifog inside lens	Standard	8.85
070-7561	7005	Chemical Resistant outside and Antifog inside lens	Standard	8.85

Safety Spectacles—Oberon**WRAPAROUND 220**

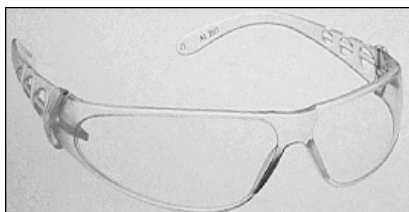
- Wraparound 8 base curve spectacle
- Meets ANSI Z87.1-1989

AWS NO	SUP. NO.	DESCRIPTION	LENS & FRAME COLOR	PRICE EACH
070-7582	TW220-20	Wraparound 220 "Frame-less"	Clear/Red & Blue	5.95
070-7589	TW220-21	Wraparound 220 "Frame-less"	Dark Grey/Red & Blue	6.15

**WRAPAROUND 920**

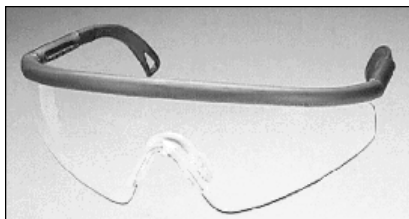
- Wraparound 8 base curve spectacle
- Meets ANSI Z87.1-1989

AWS NO	SUP. NO.	DESCRIPTION	LENS & FRAME COLOR	PRICE EACH
070-7596	TW920-70	Wraparound 920 "Frame-less"	Clear/Midnight Blue	5.75
070-7603	TW920-71	Wraparound 920 "Frame-less"	Dark Grey/Midnight Blue	5.95
070-7610	TW920-78P	Wraparound 920 "Frame-less"	Gold Mirror/Midnight Blue	7.25

**WRAPAROUND 300**

- Safety spectacle with the newest "Cool" style
- Meets ANSI Z87.1-1989

AWS NO	SUP. NO.	DESCRIPTION	LENS & FRAME COLOR	PRICE EACH
070-7617	TG300-00	Wraparound 300 Polycarbonate	Clear/Clear	4.10
070-7624	TG300-11	Wraparound 300 Polycarbonate	Dark Grey/Glare/Reducing Grey	4.10
070-7631	TG300-19	Wraparound 300 Polycarbonate	Silver Mirror/Glare/Reducing Grey	5.05

**WRAPAROUND 911**

- Wrap around 8 base curve spectacle
- Meets ANSI Z87.1-1989

AWS NO	SUP. NO.	DESCRIPTION	LENS & FRAME COLOR	PRICE EACH
070-7638	T911-90	Wraparound 911	Clear Scratch Resistant/Graphite	6.75
070-7645	T911-91	Wraparound 911	Dark Grey Scratch Resistant/Graphite	6.75
070-7652	T911-99	Wraparound 911	Silver Mirror/Graphite	8.55



Eye Wash Safety Stations—Bel-Art

- **Colorful**
- **Distinctive**
- **Attractive**
- **Serviceable**

This easily recognized, ready-to-use Eye Wash Station comes complete with eye wash bottle, dust cover, mirror, and instructions for use and service. A socket holds the bottle securely in place, yet the bottle is easily released when pulled out. Measures 17-1/2" x 15" (44 x 38cm) with 4 screw holes for wall mounting.



AWS NO	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
070-5833	F24866-0000	Wash Station	32 oz.	31.35

Sterile Eye Wash Solution—Bel-Art

Don't take chances with your eyes! - Keep handy, effective relief immediately available. This sterile eye wash solution is supplied in a 32-ounce polyethylene bottle for quick, emergency use. Just break the seal, remove the cap, tilt head back, hold eyelid open and pour the solution into the eye. The sterile irrigating solution rinses away chemical contaminants and other harmful irritants. Similar in pH value to that of human tears, the solution is isotonic, does not contain pathogens that could cause infection, and will not damage eye or skin tissue on prolonged flushing. The 32-ounce bottles of eye wash solution are individually packed. Keep them on hand as refills for the F24878-1032 and F24878-2032 eye wash stations.



AWS NO	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
070-7617	F24879-0032	Wash Solution	32 oz.	13.15

Safety Shower & Eye/Face Wash—Speakman

Shower has 8" diameter head with impeller action and stay-open valve; chrome-plated eye/face wash with stainless steel push handle. Six aerated outlets in each spray head provide a 9 x 8" curtain of aerated water for much more extensive washing action.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
070-7814	SE-603	Safety Shower/Eye/Face Wash	895.00

Shower Tester—Speakman

- Canvas funnel with a string for connection to shower head
- Empties into a bucket or floor drain

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
070-7828	SE-950	Shower Tester	115.00

Spill-X Kit—EM Science

Spill-X Spill Treatment Kits treat acid, caustic, solvent, and formaldehyde spills for safer and easier handling. All are specially formulated to rapidly clean up chemical spills and vapors. Spill-X Kits have a higher per volume absorption capacity than any other treatment agents, so they're more efficient.

AWS NO	DESCRIPTION	PRICE EACH
SX0860-1	Spill-X Multipurpose Kit	506.37
SX0861-1	Spill-X-A Acid Treatment Kit	505.64
SX0862-1	Spill-X-C Caustic Treatment Kit	506.37
SX0863-1	Spill-X-S Solvent Treatment Kit	524.44
SX0865-1	Spill-X-FP Formaldehyde Kit	505.64
SX0866-1	Chemisorb Hg Mercury Spill Kit	256.43

Replacement Items—EM Science

AWS NO	DESCRIPTION	PRICE EACH
SX0860R-1	Multipurpose Spill-X Replacement Kit	157.75
SX0861R-1	Acid Spill-X-A Replacement Kit	110.89
SX0862R-1	Caustic Spill-X-C Replacement Kit	183.46
SX0863R-1	Solvent Spill-X-S Replacement Kit	147.24
SX0865R-1	Formaldehyde/Solv X-FP Kit	171.77
SX0864-1	Treatment Kit Items	120.32

Bulk Spill Treatment Agents—EM Science

AWS NO	DESCRIPTION	PRICE EACH
SX0861B-1	Spill-X-A Acid Semi-Bulk, 22.7 Kg	350.00
SX0862B-1	Spill-X-C Caustic Semi-Bulk, 19.0 Kg	272.15
SX0865B-1	Spill-X-FP Formaldehyde/Solv, 16.8 Kg	323.61

safety, storage cabinets

Safety Storage Cabinets for Acids and Corrosives—Eagle

- **FM Approved**

For use in storing small containers up to 5-gallon capacity of flammable and nonflammable acids and corrosive liquids. All interior and exterior surfaces, including shelves, are finished with blue epoxy powder coating.

This type finish is superior to epoxy painted or enamel painted surfaces. Powder coating gives superior protection against chemical attack in event of spill or splash. For additional protection, each cabinet is supplied with high density polyethylene trays for the shelves and bottoms of cabinets.

Nitric and Sulphuric Acids should not be used in these cabinets.

AWS NO	SUP. NO.	MAX. CAP.	H X W X D	SHELF TRAYS	PRICE EACH
070-4089	CRA-32	30	43" x 18" x 44"	One	910.00
070-4129	CRA-47	45	43" x 18" x 65"	Two	1115.00

Safety Storage Cabinets—Eagle



- **Meets OSHA Requirements**
- **FM Approved**
- **Meets NFPA Code 30 Requirements**

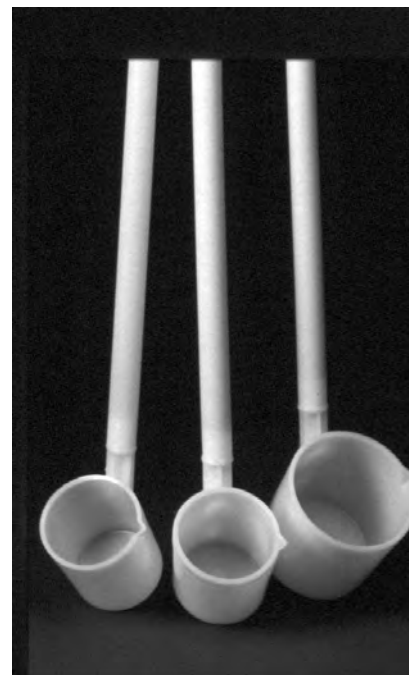
Keep flammable liquids near work areas in Safety Cabinets. All are constructed of 18-gauge steel. Sides, top, bottom, doors are double-walled. 1-1/2" air space between walls. Both vents, with 2 threaded fittings, have fire baffle and cap. Cabinets come in yellow high gloss powder finish with red warning, plus grounding attachment, 3-point key lock and 2" raised, leakproof door sill.

AWS NO	SUP. NO.	CAPACITY	SHELVES	SHELF DEPTH	WEIGHT	DOOR SPACE	PRICE EACH
070-4065	3010	30 gal.	1	14 3/4"	257 lbs.	2 Door Self-Closing	995.00
070-4057	4510	45 gal.	2	14 3/4"	353 lbs.	2 Door Self-Closing	1255.00
070-4049	6010	60 gal.	2	28"	364 lbs.	2 Door Self-Closing	1385.00



Long-Handled Dippers—Bel-Art

High-Density Polyethylene—For easy sampling from tanks, vats, lakes, etc., these dippers will not contaminate solutions or corrode. 1-1/8" (29mm) diameter handle is welded to the rigid bowl at a 45° angle. Twelve feet handle is available both as one-piece or two-piece, screw-together construction.



AWS NO	SUP. NO.	HANDLE LGTH	CAPACITY	PRICE EACH
030-2985	F36780-0016	3	16 oz. Bowl	28.55
030-2993	F36781-0016	6	16 oz. Bowl	40.65
030-3009	F36782-0016	12	16 oz. Bowl	79.75
030-3577	F36780-0032	3	32 oz. Bowl	41.14
030-3585	F36781-0032	6	32 oz. Bowl	48.35
030-3601	F36782-0032	12	32 oz. Bowl	81.35

Sub-Surface Grab Sampler® I—Wheaton

- **Ideal for sub-surface sampling; eliminates surface contamination**
- **Helps meet EPA/NJPDES requirements for water and wastewater sampling**
- **Lightweight construction**

Affords easy access from spillways, docks, etc. without physical entry into effluent. Constructed of 3/4" square aluminum tubing with a golden anodine finish. Supplied with a 1000ml narrow mouth sample bottle with PTFE lined cap and clamps for large and small bottles.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
223-5543	990250	Sub-Surface Grab Sampler® I	311.69
470-2292	990477	Sample bottle, 1000 ml	22.75

Sub-Surface Grab Sampler® III—Wheaton

- Use when sampling hazardous and corrosive materials, as well as wastewater
- Chemically resistant stainless steel and polypropylene construction
- Wide mouth accepts light sludges and slurries
- Modular design utilizes 6' add-on sections

Same principle as the Grab Sampler® II. Grab Sampler® III fits wide mouth bottles with a 70 - 400 screw thread finish. A displacement plunger allows the collection of samples in a 1000ml bottle with approximately 1" of headspace between the sample and the underside of the bottle closure. Grab Sampler® III includes a safety coated 1000ml bottle and a green urea cap with Teflon® liner. Extension kit (990471) includes a 6' stainless steel extension shaft, coupling and connecting cable.

AWS NO	SUP. NO.	DESCRIPTION	PRICE EACH
223-1581	990470	Sub-Surface Grab Sampler® III, 6'	485.65
223-4759	990471	Extension Kit	159.05

Tank Sampler—Nasco

Taking a sample at a specific depth is easy with NASCO's Tank Sampler. Available as a 10 foot unit (made up of two 5 foot sections) or with extra middle sections (optional) to extend the length. The sampler is made of a tough, diameter, special plastic pipe. Sampler holds approximately 3 oz. per foot. To use, screw the two sections together and lower the unit to the specific depth required (the sampler is marked in one foot increments). Pull and hold the wire at the top, which opens the valve, allowing the liquid to flow in. Next, release the wire allowing the valve to close, trapping the sample inside. To release the sample, hold the sampler in the middle at about a 15° angle and pull the wire, holding the end over an appropriate container (Whirl-Pak™ bag), or press and hold the pin on the bottom against a hard surface such as the bottom of a pail. The valve will be released and the sample will flow out.

AWS NO	SUP. NO.	DESCRIPTION	HANDLE LGTH	PRICE EACH
065-1129	B01096WA	Nasco's Tank Sampler	10 ft.	59.15
063-7129	B01097WA	X-tra 5 ft. Section	5 ft.	21.15



COLIWASA—Nasco

Composite Liquid Waste Sampler—NASCO's COLIWASA permits representative sampling of multiphasewastes for a wide range of viscosity, corrosivity, volatility, and solids content. The unit can be used to sample most containerized liquid wastes, except those containing ketones, nitrobenzene, dimethylformamide, mesityl oxide, and tetrahydrofuran. Its simple design makes it easy to use, and allows the rapid collection of samples, minimizing the exposure of the sample collector to potential hazards from the wastes. Manufactured of high-density polyethylene and designed to EPA standards, the main parts of the COLWASA consist of the 5 ft x 3/4" ID sampling tube, the closure system. Sampler holds approximately 3 oz. per foot.

Easy to use, simply lower the COLIWASA to the proper level and pull up on the rod at the top to open the valve. Or, open the valve before submersing into the liquid, to collect a sample from the top down. When the bottom or desired level has been reached, tug slightly on the rope simultaneously raising the unit. This will set the check valve, trapping the sample inside.

When the unit has been raised clear of the tank, the sample may be dispensed into an appropriate container (Whirl-Pak® bag) by holding the COLIWASA over the container and pulling on the plastic rod, or pressing the end of the unit against a hard surface, releasing the sample. Shipping weight - 3 lbs.

AWS NO	SUP. NO.	DESCRIPTION	SHIP WEIGHT	PRICE EACH
063-3832	B01098WA	Coliwasa	3 lb.	35.00

The Sludge Nabber—Nasco

Nasco's Sludge Nabber makes sample collection of liquid material simple and easy. The Sludge Nabber is an adjustable extension unit that allows easy access to the source or the sampling point, and its adjustability makes it convenient to carry. The aluminum pole extends from 4 feet to 6-1/2 feet. The Sludge Nabber is ideally suited for numerous sampling requirements including chlorine in solution. Sample bottles of various sizes (250ml to 1000ml) are held in position by different adjustable and changeable bands. Whether testing for chlorine, BOD (bio-chemical oxygen demand), or SS (suspended solids), the Sludge Nabber's flexibility in using a variety of polyethylene bottles, along with its adjustable length, allows for effortless sampling by individuals seeking liquid samples. Unit comes with 500ml bottle. Shipping weight - 3 lbs. 4 oz.

AWS NO	SUP. NO.	PRICE EACH
064-7503	B01229WA	42.45

scoops

Sampler Spoons—Bel-Art

POLYPROPYLENE

- These long-handled spoons are convenient for reaching into jars and bottles
- Molded of talc-filled polypropylene, they are steam autoclavable at 250°F (121°C)
- All are 7" (18 cm) long

AWS NO	SUP. NO.	WIDTH	CAPACITY	QTY/PACK	PACK PRICE
030-3129	F36723-0000	20 mm	1 cc	12	9.24
030-3449	F36724-0000	25 mm	2 cc	12	9.46
030-4065	F36725-0000	30 mm	5 cc	12	9.79
030-2921	F36726-0000	39 mm	15 cc	12	10.18

Scoops—Bel-Art



POLYPROPYLENE

- Molded natural color polypropylene; rigid, strong and smooth
- Steam autoclavable at 250°F (121°C)
- Special prices on yearly contracts for large runs and colors on request

AWS NO	SUP. NO.	HANDLE	CAPACITY	BOWL MM	QTY/PACK	PACK PRICE
031-5393	F36747-0000	32	22	60 x 29 x 25	12	6.60
031-5409	F36749-0000	48	75	89 x 38 x 32	12	18.43
031-5385	F36753-0000	64	200	127 x 51 x 51	12	29.04
031-5377	F36756-0000	102	1100	203 x 121 x 76	6	29.76

Reagent Digger—Bel-Art



Avoid waste by using this super tool to get to the last gram. Use this superior stainless steel tool to dislodge stubborn, caked or crystallized reagents from deep down inside a bottle or vessel. The Reagent Digger is a time-tested tool of proven geometry improved for maximum utility. The ergonomically designed shape facilitates scooping, shoveling, digging and measuring of all powdered, flaked, crystalline or granular media. It fits standard reagent bottles as well as other vessels. The minimum neck diameter through which it fits is 15/16" (24mm), overall length 9" (229mm).

AWS NO	SUP. NO.	PRICE EACH
061-7489	F36713-0000	12.60



Settlometer Kit—Nalgene

Nom. jar capacity, liters; gal.: 2; 1/2
 Approx. jar dim., ht. x O.D., mm: 191 x 133
 Nom. Tube capacity, ml: 15
 Tube dim., O.D. x ht., mm: 17 x 119

AWS NO	SUP. NO.	PRICE EACH
033-5433	1010-0507	95.00

spectrophotometers

Turner Microprocessor Controlled Spectrophotometer—Barnstead Thermolyne



SP-830 OFFERS:

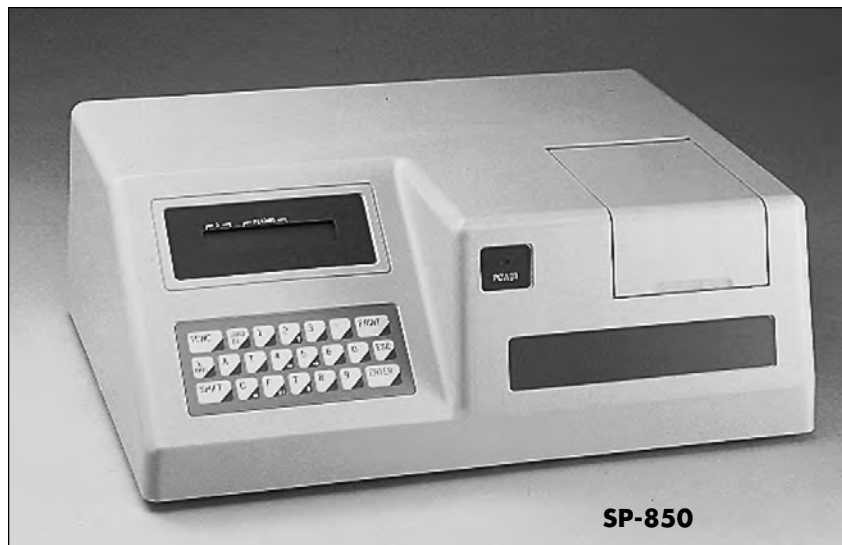
- Signal processing control led by microprocessor.
- Auto-zero pushbutton (100% T/OA) that makes setting of 100% TRANS and 0.000 ABS an easy job
- RS-232C and optional printer interfaces provide external data output
- Built in stray light filters

SP-850 HAS THE SAME FEATURES AS THE SP-830 PLUS:

- Concentration mode allows you to read the concentration directly from the unit
- Eliminates operator errors associated with hand calculations and conforms to GLP
- A larger 4-1/2" (11.4cm) digital LED allows large concentration and factor values to be displayed
- RS-232C and printer interfaces are supplied with the instrument
- Decimal key permits a choice for decimal placement
- Factor mode permits you to trace day-to-day variations in your applications
- Large versatile keyboard
- Built in calibration standards

CONTINUED ON NEXT PAGE

Turner Microprocessor Controlled Spectrophotometer—Barnstead Thermolyne



SP-850

COMMON SPECIFICATIONS FOR ALL MODELS:

Absorbance Mode:	0.000 - 2.000A
Analog Output:	0.00 - 1.00V
Cuvettes:	A.) Round cuvettes 12 - 13 mm in diameter B.) Square cuvettes 12.5 x 12.5 45mm, 1cm pathlength (optional) C.) Vacuum empty cuvette (optional)
Dimension (mm):	400 (W) x 300 (D) x 14 (H) Photometric Accuracy: 1% at 1A
Photometric Linearity:	1%
Power:	115/230 VAC 50/60 Hz (switchable)
Signal Processing:	Digital, Microprocessor
Stability:	Drifting 0.003A/hr after half hour warm-up at 0A
Stray Light:	0.1%T typical at 340 nm, <0.5%T 330 - 999 nm
Transmittance Mode:	0 100.0% T
Wavelength Range:	330 - 999 nm
Wavelength Accuracy:	±2 nm
Wavelength Repeatability:	± 0.5 nm
Weight:	19.8 Lbs (9 kg)
Zero & Blank Setting:	Automatic

MODEL SPECIFICATIONS

MODEL #	SP-830	SP-850
Bandwidth Pass	8 nm (nominal)	8 nm (nominal)
Wavelength Setting	Manual	Manual
Filter Selection	Manual	Manual
Concentration Mode	-	0-19,999
Data input	-	Keyboard
Display	3.5" (8.9 cm)	4.5 (11.4 cm)
Factor Mode	-	1-19,999
Interface	R5232C, Printer (option)	R5232C, Printer

AWS NO.	SUP. NO.	DESCRIPTION	VOLTAGE	PRICE EACH
222-3037	SM110215	SP-830 Spectrophotometer	120	1728.10
222-3048	SM110225	SP-850 Spectrophotometer	120	2446.40

ACCESSORIES

AWS NO.	SUP. NO.	DESCRIPTION	QTY/PACK	PRICE EACH
224-2927	34F01-15	Cuvette, round, 100 x 13 mm Round Borosilicate Glass	6 each	49.00

PC-210/PC-410/PC-610 Series Stirrers—Corning



- Microprocessor Controlled to automatically adjust motor strength to any solution
- Enclosed Electronics design protects components, improves performance, and prolongs product life
- Low-Profile Design uses less space on bench tops and under hoods
- World Wide Regulatory Approval. The only units on the market that meet UL/CUL/IEC 1010 and CE/GS standards
- Support Rod Mount allows a standard retort rod to be attached directly to the casting of the unit

PC-131/141

The plastic top PC-131 and stainless steel top PC-141 models were designed for laboratories that need only occasional use from their stirrers. These models are lightweight and economically priced. Carries a 1 year warranty.

PC-210

- Micro-chemistry size
- 2 year warranty
- Microprocessor Controlled

PC-410

- Improved Original Ceramic Tops
- 2 year warranty
- Microprocessor Controlled

PC-610

- Improved Original Ceramic Tops
- 2 year warranty
- Microprocessor Controlled

AWS NO.	SUP. NO.	MODEL #	POWER	TOP SIZE	TOP STYLE	STIR RANGE RPM	PRICE
222-3289	6795-210	PC-210	120V/60Hz/33W/0.3A	4 x 5	Pyroceram	60 - 1100	201.65
222-3449	6795-410	PC-410	120V/60Hz/73W/0.17A	5 x 7	Pyroceram	60 - 1100	246.07
222-3633	6795-610	PC-610	120V/60Hz/73W/0.7A	10 x 10	Pyroceram	60 - 1100	337.90
222-3169	440742	PC-131	115V/50-60Hz/4W/0.03A	5 x 5	Plastic	<100-1000	91.56
222-3177	440743	PC-141	115V/50-60Hz/4W/0.03A	5 x 5	Steel	<100-1000	163.50

Ceramic/Aluminum Top Stirrers—Barnstead Thermolyne

- Top side drip edge channels spilled liquid away from knobs and provides protection for inside components.
- Rugged cast aluminum bodies provide stability and durability.
- For safe operation, all models include a power indicator light that illuminates when power is applied to the control.
- Quiet stirring at a gentle 100 rpm as well as at a vigorous 1000 rpm operation
- Strong magnetic coupling ensures that stir bar remains coupled with drive magnet, even in viscous solutions.

- 7" x 7" and 12" x 12" stirrers include one 2" x .38" (5.1 x 1 cm) Teflon®-coated stirring bar. 4" x 4" units include one 1" x .31" (2.5 x 0.8cm) stir bar.
- An integral ring-stand holder on all models accommodates support stand and clamp.

CIMAREC STIRRERS OFFER:

- Solid ceramic top plate is easily cleaned, resistant to acid and alkali
- Reflective bright white color enhances sample visibility
- Top plate sizes to fit any requirement. Choose 4" x 4", 7" x 7" or 12" x 12" (10.1 x 10.1cm, 17.7 x 17.7cm, or 30.4 x 30.4cm) stirring surfaces.

CIMAREC 4" X 4"**OVERALL DIMENSIONS 6.25 X 5 X 6.5**

AWS NO.	SUP. NO.	STIRRING SPEED RPM	PRICE
224-2857	S46415	100 - 1000	217.80

CIMAREC 7" X 7"**OVERALL DIMENSIONS 9 X 5 X 9.6**

AWS NO.	SUP. NO.	STIRRING SPEED RPM	PRICE
224-2864	S46725	100 - 1000	222.00

CIMAREC 12" X 12"**OVERALL DIMENSIONS 13 X 5.4 X 13**

AWS NO.	SUP. NO.	STIRRING SPEED RPM	PRICE
224-2871	S47035	100 - 1000	352.00



PC-2220/PC-420/PC-620 Series Stirrers/Hot Plates—Corning



AWS NO.	SUP. NO.	MODEL #	POWER	TOP SIZE	TEMPERATURE RANGE	STIR RANGE RPM	PRICE
222-3337	6795-220	PC-220	120V/60Hz/283W/2.4A	4 x 5	77-1022°F (25-550°C)	60-1100	310.65
222-3489	6795-420	PC-420	120V/60Hz/698W/5.9A	5 x 7	77-1022°F (25-550°C)	60-1100	343.35
222-3681	6795-620	PC-620	120V/60Hz/1113W/9.3A	10 x 10	77-1022°F (25-550°C)	60-1100	441.45

Cimarec Stirring Hot Plates—Barnstead Thermolyne



**CIMAREC 4" X 4" TOP PLATE MODEL
OVERALL DIMENSIONS 4.75 X 4.25 X 5.25**

AWS NO.	SUP. NO.	CORD SET	VOLTS	AMPS	WATTS	OPERATING TEMP RANGE	STIRRING SPEED RPM	PRICE
221-4391	SP46615	15 Amp	120	3.3	395	150-538°C/300-1000°F	100-1000	335.50

**CIMAREC 7" X 7" TOP PLATE MODEL
OVERALL DIMENSIONS 7.68 X 4.5 X 8.5**

AWS NO.	SUP. NO.	CORD SET	VOLTS	AMPS	WATTS	OPERATING TEMP RANGE	STIRRING SPEED RPM	PRICE
221-4392	SP46925	15 Amp	120	9.3	1118	150-538°C/300-1000°F	300-1000	357.50

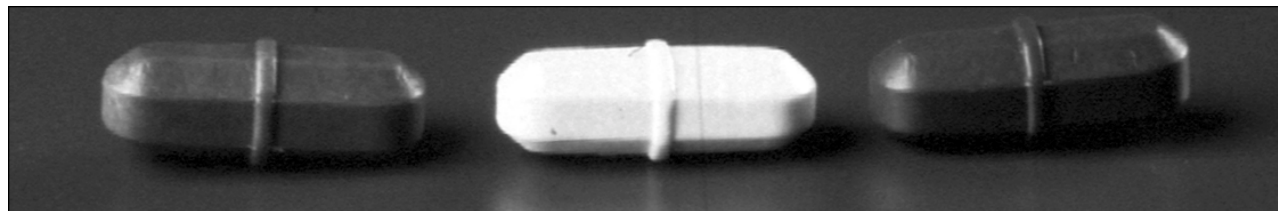
**CIMAREC 12" X 12" TOP PLATE MODEL
OVERALL DIMENSIONS 13 X 5.4 X 13**

AWS NO.	SUP. NO.	CORD SET	VOLTS	AMPS	WATTS	OPERATING TEMP RANGE	STIRRING SPEED RPM	PRICE
221-4394	SP47235-60	15 Amp	120	13.7	1650	120-370°C/250-700°F	100-1000	485.50

stirrers, stir bars and retrievers

Octagon Stirring Bars—Bel-Art

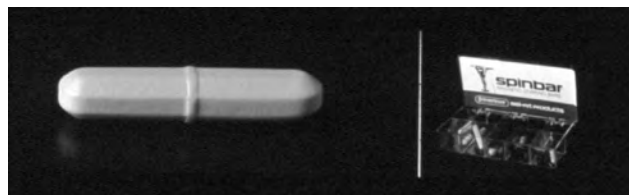
- Color Coded-Teflon®
- All color coded Spinbar® magnetic stirring bars are available in red, yellow or blue



AWS NO.	SUP. NO.	COLOR	SIZE	PRICE	AWS NO.	SUP. NO.	COLOR	SIZE	PRICE
060-2457	F37109-0034	Red	1/2 x 1/8	3.41	060-3337	F37109-0011	Yellow	1 x 5/16	4.18
060-2529	F37109-0001	Red	1/2 x 5/8	3.47	060-2265	F37109-0020	Yellow	1 1/2 x 5/16	5.06
060-4521	F37109-0004	Red	5/8 x 5/16	3.69	060-3857	F37109-0029	Yellow	2 x 5/16	5.45
060-4961	F37109-0007	Red	7/8 x 5/16	3.85	060-4233	F37109-0032	Yellow	3 x 1/2	17.27
060-3313	F37109-0010	Red	1 x 5/16	4.18	060-2449	F37109-0036	Blue	1/2 x 1/8	3.41
060-2241	F37109-0019	Red	1 1/2 x 5/16	5.06	060-2521	F37109-0003	Blue	1/2 x 5/8	3.47
060-3833	F37109-0028	Red	2 x 5/16	5.45	060-4513	F37109-0006	Blue	5/8 x 5/16	3.69
060-4201	F37109-0031	Red	3 x 1/2	17.27	060-4953	F37109-0009	Blue	7/8 x 5/16	3.85
060-2473	F37109-0035	Yellow	1/2 x 1/8	3.41	060-3305	F37109-0012	Blue	1 x 5/16	4.18
060-2561	F37109-0002	Yellow	1/2 x 5/8	3.47	060-2233	F37109-0021	Blue	1 1/2 x 5/16	5.06
060-4537	F37109-0005	Yellow	5/8 x 5/16	3.69	060-3825	F37109-0030	Blue	2 x 5/16	5.45
060-4977	F37109-0008	Yellow	7/8 x 5/16	3.85	060-4193	F37109-0033	Blue	3 x 1/2	17.27

SpinBox™ Magnetic Stirring Bars—Bel-Art

COLOR-CODED OCTAGON ASSORTMENT BOX



24 color coded octagon Spinbar® magnetic stirring bars, Teflon®, with pivot ring. Consists of 1 each: yellow, red, and blue: 1/2" x 1/8"; 5/8" x 5/16; 7/8" x 5/16"; 1/2" x 5/16"; 1" x 5/16"; 1-1/2" x 5/16"; 2" x 5/16"; 3" x 1/2".

AWS NO.	SUP. NO.	QTY/PACK	PACK PRICE
060-4121	F37185-0000	24	134.42



Magnetic Spinbar® Retrievers —Bel-Art

Polyethelene — A 3/8" (9.5mm) diameter pick-up rod with powerful Alnico® magnet sealed in one end and handy hang-up grip on other.

AWS NO.	SUP. NO.	SIZE	PRICE EACH
060-2961	F37772-0000	12"	8.47
060-3201	F37773-0000	18"	9.74

Spinbar® Positioner/Retriever —Bel-Art

Double-duty Spinbar® Positioner/Retriever. Now place Spinbar® magnetic stirring bar in center of container; avoid splashing caused by dropping bar into liquid. Also remove bar without touching or pouring out contents. Retriever slides within outer casing. To pick up Spinbar® magnetic stirring bar, slide retriever down; to release Spinbar® magnetic stirring bar, slide retriever up. Measures 5/8" (15.9mm) diameter x 12" (305mm) long.

AWS NO.	SUP. NO.	SIZE	PRICE EACH
061-6001	H37780-000	12"	27.23

Assortment Six-Packs —Bel-Art

OCTAGONAL BARS



6 octagon Spinbar® magnetic stirring bars, Teflon® covered, with pivot ring. Contains 2 of each: 1" x 5/16"; 1-1/2" x 5/16"; 2" x 5/16".

AWS NO.	SUP. NO.	QTY/PACK	PACK PRICE
061-4489	F37160-0000	6	23.21

ROUND BARS

6 Round Spinbar® magnetic stirring bars, Teflon® covered, with removable pivot rings. Contains 2 of each: 1" x 5/16"; 1-1/2" x 5/16"; 2" x 5/16".

AWS NO.	SUP. NO.	QTY/PACK	PACK PRICE
061-4497	F37161-0000	6	29.65

stoppers, cork

Cork Borer Sets with Handles—Humboldt

For boring holes in corks or rubber stoppers. Constructed of plated tubing with precision ground cutting edges. Handles are plastic, smoothly finished and permanent. Each handle is stamped with a number designation corresponding to the following table. A punch is included with each set.

AWS NO.	SUP. NO.	SET OF	OD IN	PRICE EACH
224-2990	H-9661	3	3/16, 1/4, 5/16	15.65
224-2997	H-9663	9	9/16, 39/64, 21/32	52.00
224-3004	H-9665	15	27/32, 57/64, 15/16	67.50

stoppers, black rubber

Black Rubber Stoppers—Plasticoid

SOLID BLACK RUBBER STOPPERS

AWS NO.	SUP. NO.	TYPE.	QTY/PACK	PACK PRICE
064-9295	000-M290	Solid	1 lb. Bag	15.93
064-9288	00-M290	Solid	1 lb. Bag	15.93
064-9281	0-M290	Solid	1 lb. Bag	15.93
064-9302	1-M290	Solid	1 lb. Bag	15.93
064-9379	2-M290	Solid	1 lb. Bag	15.93
064-9386	3-M290	Solid	1 lb. Bag	14.07
064-9393	4-M290	Solid	1 lb. Bag	14.07
064-9400	5-M290	Solid	1 lb. Bag	14.07
064-9407	5.5-M290	Solid	1 lb. Bag	14.07
064-9414	6-M290	Solid	1 lb. Bag	14.07
064-9421	6.5-M290	Solid	1 lb. Bag	14.07
064-9428	7-M290	Solid	1 lb. Bag	14.07
064-9435	7.5-M290	Solid	1 lb. Bag	14.80
064-9442	8-M290	Solid	1 lb. Bag	14.80
064-9449	8.5-M290	Solid	1 lb. Bag	14.80
064-9456	9-M290	Solid	1 lb. Bag	14.80
064-9463	9.5-M290	Solid	1 lb. Bag	14.80
064-9309	10-M290	Solid	1 lb. Bag	14.80
064-9316	10.5-M290	Solid	1 lb. Bag	14.80
064-9323	11-M290	Solid	1 lb. Bag	14.80
064-9330	11.5-M290	Solid	1 lb. Bag	15.03
064-9337	12-M290	Solid	1 lb. Bag	15.03
064-9344	13-M290	Solid	1 lb. Bag	15.03
064-9351	13.5-M290	Solid	1 lb. Bag	15.03
064-9358	14-M290	Solid	1 lb. Bag	15.03

TWO-HOLE BLACK RUBBER STOPPERS

AWS NO.	SUP. NO.	TYPE.	QTY/PACK	PACK PRICE
064-9106	000-M292	2-Hole	1 lb. Bag	17.67
064-9099	00-M292	2-Hole	1 lb. Bag	17.67
064-9092	0-M292	2-Hole	1 lb. Bag	17.67
064-9113	1-M292	2-Hole	1 lb. Bag	17.67
064-9190	2-M292	2-Hole	1 lb. Bag	17.67
064-9197	3-M292	2-Hole	1 lb. Bag	15.33
064-9204	4-M292	2-Hole	1 lb. Bag	15.33
064-9211	5-M292	2-Hole	1 lb. Bag	15.33
064-9218	5.5-M292	2-Hole	1 lb. Bag	15.33
064-9225	6-M292	2-Hole	1 lb. Bag	15.33
064-9232	6.5-M292	2-Hole	1 lb. Bag	15.33
064-9239	7-M292	2-Hole	1 lb. Bag	15.33
064-9246	7.5-M292	2-Hole	1 lb. Bag	16.13
064-9253	8-M292	2-Hole	1 lb. Bag	16.13

ONE-HOLE BLACK RUBBER STOPPERS

AWS NO.	SUP. NO.	TYPE.	QTY/PACK	PACK PRICE
064-8917	000-M291	1-Hole	1 lb. Bag	17.67
064-8910	00-M291	1-Hole	1 lb. Bag	17.67
064-8903	0-M291	1-Hole	1 lb. Bag	17.67
064-8924	1-M291	1-Hole	1 lb. Bag	17.67
064-9001	2-M291	1-Hole	1 lb. Bag	17.67
064-9008	3-M291	1-Hole	1 lb. Bag	15.33
064-9015	4-M291	1-Hole	1 lb. Bag	15.33
064-9022	5-M291	1-Hole	1 lb. Bag	15.33
064-9029	5.5-M291	1-Hole	1 lb. Bag	15.33
064-9036	6-M291	1-Hole	1 lb. Bag	15.33
064-9043	6.5-M291	1-Hole	1 lb. Bag	15.33
064-9050	7-M291	1-Hole	1 lb. Bag	15.33
064-9057	7.5-M291	1-Hole	1 lb. Bag	16.13
064-9064	8-M291	1-Hole	1 lb. Bag	16.13
064-9071	8.5-M291	1-Hole	1 lb. Bag	16.13
064-9078	9-M291	1-Hole	1 lb. Bag	16.13
064-9085	9.5-M291	1-Hole	1 lb. Bag	16.13
064-8931	10-M291	1-Hole	1 lb. Bag	16.13
064-8938	10.5-M291	1-Hole	1 lb. Bag	16.13
064-8945	11-M291	1-Hole	1 lb. Bag	16.13
064-8952	11.5-M291	1-Hole	1 lb. Bag	16.30
064-8959	12-M291	1-Hole	1 lb. Bag	16.30
064-8966	13-M291	1-Hole	1 lb. Bag	16.30
064-8973	13.5-M291	1-Hole	1 lb. Bag	16.30
064-8980	14-M291	1-Hole	1 lb. Bag	16.30

AWS NO.	SUP. NO.	TYPE.	QTY/PACK	PACK PRICE
064-9260	8.5-M292	2-Hole	1 lb. Bag	16.13
064-9267	9-M292	2-Hole	1 lb. Bag	16.13
064-9274	9.5-M292	2-Hole	1 lb. Bag	16.13
064-9120	10-M292	2-Hole	1 lb. Bag	16.13
064-9127	10.5-M292	2-Hole	1 lb. Bag	16.13
064-9134	11-M292	2-Hole	1 lb. Bag	16.13
064-9141	11.5-M292	2-Hole	1 lb. Bag	16.13
064-9148	12-M292	2-Hole	1 lb. Bag	16.30
064-9155	13-M292	2-Hole	1 lb. Bag	16.30
064-9162	13.5-M292	2-Hole	1 lb. Bag	16.30
064-9169	14-M292	2-Hole	1 lb. Bag	16.30



test tubes, glass - disposable

Tube, Borosilicate, Culture, Disposable—Kimble

Borosilicate glass KIMAX-51 composition assures the best all-around chemical durability of commercial glasses now available for laboratory ware. Complies with ASTM specification E438, Type I, Class B glass requirements. KIMAX-51 has excellent chemical resistance against sodium leaching - a factor common in soda lime glass products. These are premium quality tubes with sturdy, uniform bottoms and consistent lengths. The 10 and 12 x 75 mm sizes are suitable for cell washing procedures. Tubes are packed in convenient trays for ease of use on bench tops and in drawers. The 10 and 12 x 75 mm sizes fit into Kimble 73510 stainless steel dispensers. The 6 x 50 mm size is often referred to as a Durham tube". Trays are shrink wrapped in plastic film with tubes remaining in constant alignment for protection against in-transit breakage and contamination. Designed from ASTM Specification E890.



AWS NO.	SUP. NO.	APPROX. O.D.	APPROX. LENGTH	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
020-5185	73500-650	6 mm	50 mm	250	1000	11.08	39.49
020-5393	73500-1075	10 mm	75 mm	250	1000	14.08	38.35
020-5433	73500-1275	12 mm	75 mm	250	1000	15.55	40.77
020-5473	73500-13100	13 mm	100 mm	250	1000	18.15	49.60
020-5137	73500-16100	16 mm	100 mm	250	1000	15.65	55.83
020-5153	73500-16150	16 mm	150 mm	250	1000	21.41	76.32
020-5161	73500-18150	18 mm	150 mm	125	500	13.40	47.78
020-5177	73500-25150	25 mm	150 mm	125	500	28.04	100.04

test tubes, glass-reusable

PYREX® brand, Culture, Rimless—Corning

Rimless for greater convenience in plugging and rack storage. Walls and bottoms are of uniform thickness. Ends are fire polished. The 6.22 and 25 mm O.D. tubes do not have marking spots

AWS NO.	SUP. NO.	CAPACITY	O.D. LENGTH	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
012-9905	9820-10	3 ml	10 x 75	72	720	21.19	201.60
013-0241	9820-16XX	20 ml	16 x 150	72	576	32.18	241.92
013-0289	9820-18	27 ml	18 x 150	72	576	36.10	270.72
013-0401	9820-20	34 ml	20 x 150	72	576	43.15	322.56
013-0721	9820-25	55 ml	25 x 150	72	288	69.06	264.96
013-0801	9820-25X	70 ml	25 x 200	48	192	60.17	232.32

PYREX® brand, Culture, Screw Cap—Corning

Furnished with deep-form phenolic caps to facilitate handling and sealing after auto-claving. Caps are fabricated from a special formula resistant to the effects of temperature and steam in autoclaving. Caps are provided with a glued-in, white rubber liner. The white enamel marking spot gives an excellent surface for pencil notations. Pencil marks are easily erased.

AWS NO.	SUP. NO.	CAPACITY	O.D. LENGTH	GPI THREAD FINISH	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
013-1305	9825-16X	15 ml	16 x 125	15-415	144	288	185.21	351.36
013-1329	9825-20X	34 ml	20 x 150	18-415	96	192	171.61	324.48



thermometers, bimetallic

Laboratory Bi-Metallic Thermometers—Ertco

- Accurate to 1% over entire range
- Hex-nut provides simple recalibration
- Anti-parallax dial with raised graduation
- Silicone treated coils
- Stainless steel construction
- Super sensitive bi-metal for fast response
- Lexan plastic crystal
- 1, 1-3/4 and 2 inch dials

1-3/4" DIAL - 8" STEM LENGTH

AWS NO.	SUP. NO.	RANGE	DIVISION	PRICE EACH
616-8091	EG220F0	to 220°F	2°F	19.50
616-8147	EG110C-10	to 110°C	1°C	19.50

thermometers, certified

Ertco Nist* and Factory Calibrated (Certified) Thermometers—Ertco

Calibrated thermometers are used where precise temperature measurements are of critical importance. They are recommended to verify and calibrate the instruments routinely used in the laboratory including liquid-in-glass, digital electronic, and bimetal thermometers.

These thermometers, whether calibrated at NIST or at ERTCO, are carefully inspected to insure that they conform to the exacting requirements outlined for precision thermometers in NIST Monograph 250-23. Each thermometer is furnished with a calibration document showing corrections at relevant points on the scale. The Factory Calibrated thermometers are compared with NIST Standards and the documents furnished are traceable to the NIST. All temperatures correspond to the new values of ITS-90.

Each thermometer is packed in a felt lined leatherette case for safe storage. A booklet accompanies each one with helpful hints on how to properly use it.

The Standard Reference thermometers were designed by the NIST as primary standards for the biomedical and pharmaceutical laboratories. They are fully described in NCCLS+ document 12-A2 vol. 10 no. 3, the approved standard for "Temperature Calibration of Water Baths, Instruments, and Temperature Sensors."

FACTORY CALIBRATED

AWS NO.	SUP. NO.	RANGE	DIVISION	LENGTH	IMM.	CALIBRATED (CERTIFIED) AT	PRICE EACH
611-3905	611-3FC	-20 to 110°C	1.00°C	305 mm	76 mm	0, 37°, 560°C	165.00
611-3889	1003-3FC	-1 to 51°C	0.10°C	460 mm	76 mm	0, 10°, 20°, 30°, 37°, 40°, 50°C	410.00
611-3873	1007-3FC	-1 to 201°C	0.20°C	610 mm	76 mm	0, 25°, 37°, 44.6°, 10°, 121°, 140°, 150°, 18°, 2000°C	611.00
611-3857	1009-3FC	-1 to 151°C	0.20°C	475 mm	76 mm	32°, 40°, 60°, 100°, 120°F	605.00

- Standard Reference Thermometer



Traceable Memory Monitoring Thermometer—Control Company

The perfect thermometer for monitoring liquids, air/gas, or semisolids in water baths, refrigerators, freezers, incubators, and tanks. User may select °F or °C. Minimum and maximum memory.

Triple display simultaneously shows current, high, and low temperatures. Minimum and maximum memory feature permits monitoring conditions overnight, weekends, or any time period. Unit reads ambient temperature or probe temperature. Range is from -58.0 to 158.0°F and -50.0 to 0 70.0°C. Resolution is to 1° and accuracy is ±1°. An individually serial-numbered Traceable® certificate is supplied to indicate instrument traceability to standards provided by NIST (National Institute of Standards and Technology).

High and low temperature alarm. Alarm may be set in 1° increments. The alarm sounds when the temperature rises above or falls below the set points. Alarm continues to sound for up to 12 hours, even if temperature returns to non-alarm range.

Submersible probe and cable

The unit is supplied with a flip-open stand for the lab bench, a slot for wall mounting, and Velcro to attach to any surface. Easy-view, 1/2-inch-high LCD display may be read from 10 feet. A wire-mounting bracket permits easy probe placement. Sensor and 10-foot cable perform accurately even when both are under water. Sensor measures 3/16-inch wide, 7/8-inch long.

Supplied with an AA alkaline battery for continuous, 1-year, "always on" monitoring and a Traceable® certificate. Case is high-impact, chemical-resistant ABS plastic. Unit measures 2-3/4 x 4-1/4 x 3/4 inches and weighs 4 ounces.



AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
611-4665	4048	Traceable® Solar-Powered (External Sensor)	41.25

Solar-Powered Thermometer—Control Company

Thermometer is "always on" and runs for years powered from the light in the lab. Efficient and cost-saving solar panels make this unit environmentally attractive. Monitor ambient temperature or temperatures of liquids, air/gas, and semisolids from across the room on a large LCD display.

The perfect thermometer for measuring temperatures of solutions, water baths, refrigerators, incubators, and tanks. It's ideal for food inspection, petroleum tests, quality control, biomedical studies, R/D analysis, and waste water tests.

Reads in °F or °C at the flick of a switch. Display updates every 10 seconds to save time and eliminate the 3-minute "lag" inherent in glass and dial thermometers. Reads from 0.° to 160.0°F and -20.0 to 70.0°C with a resolution of 01° and an accuracy of ±1°.

The thermometer sits on the bench, has a slot for wall mounting, and is supplied with Velcro™ to attach to any surface. Easy-view, 1/2-inch-high display may be read from 10 feet.

Supplied with solar panels, backup battery for dim areas, external sensor unit that comes with 10-foot cable, and 3/16-inch diameter sensor. Sensor and cable perform accurately even when under water.

Unit measures 2-3/4 x 2-3/4 x 3/4 inches and weighs 2 ounces.



AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
610-8337	4122	Traceable® Solar-Powered (Internal Sensor)	23.65

thermometers, digital CONTINUED

Monitoring Thermometer—Control Company



Monitor temperatures of liquids, air/gas, and semisolids from across the room on a giant LCD display. The perfect thermometer for monitoring reagents or solutions in water baths, refrigerators, incubators, and tanks. Reads in °F or °C with the flick of a switch. Unit displays ambient temperature, probe temperature, and time of day at the touch of a button.

Ten-foot cable and aluminum-tipped sensor perform accurately even when under water. Reads from 0.0 to 160.0°F and -20.0 to 70.0°C with 0.1° resolution and $\pm 1^\circ$ accuracy. An individually serial-numbered Traceable® certificate is supplied to indicate instrument traceability to standards provided by NIST microcomputer, solid-state construction eliminates glass thermometer breakage and mercury problems. Display updates every 10 seconds eliminating the 3-minute "lag" inherent in glass and dial thermometers.

Vertical mounting bracket may be placed on water baths, desiccators, ovens, or refrigerators. Unit also comes with a flip-open stand for bench use. Easy-view, 1/2-inch-high display may be read from 10 feet.

Supplied with 2-year, silver-oxide battery, sensor bracket, and stand/mounting bracket. Sensor diameter is 3/16 inch, unit is 2 1/2 x 2 x 1/2 inches, weight is 2 ounces.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
611-4689	4047	Traceable® SMonitoring Thermometer	34.75

Big-Digit Memory Thermometer—Control Company



Easy-view, 1/8-inch-high, jumbo digits may be read from 25 feet. Dual display permits reading ambient and probe temperature simultaneously. Minimum/maximum memory readings may be displayed or reset at the touch of a button.

User may select °F or °C. External probe range is -58.0 to 158.0°F/-50.0 to 70.0°C. Ambient sensor range is 23.0 to 122.0°F/-5.0 to 50.0°C. Resolution is 0.10 and accuracy is $\pm 1^\circ\text{C}$. An individually serial-numbered Traceable® certificate is supplied to indicate instrument traceability to standards provided by NIST (National Institute of Standards and Technology).

External probe is supplied with a 10-foot cable. Both sensor and cable perform accurately when under water. "Always on" (there is no off switch) instrument makes constant readings.

Monitor temperatures and view the readout from across the lab. This stable and accurate unit requires no adjustment or maintenance. Minimum/maximum memory feature permits storing temperature records overnight, weekends, or over any time period.

Unit is supplied with a flip-open stand, a slot for wall mounting, and velcro to attach to any surface. Equipped with an AAA battery for continuous, 1-year "always on" monitoring. Case is high-impact, chemical-resistant ABS plastic. Size is 2-3/4 x 4-1/4 x 3/4 inches and weight is 4 ounces.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
611-4545	4126	Traceable® Big-Digit Memory Thermometer	38.95



thermometers, non-mercury

Precision Spirit Filled Laboratory Thermometers—Ertco

- Red Spirit filled thermometers
- Accurate to within NIST tolerances
- Total and partial immersion
- Individually serialized

PARTIAL IMMERSION

AWS NO.	SUP. NO.	RANGE	DIVISION	IMMERSION	LENGTH	PRICE EACH
610-9457	609-3S	-35 to 50°C	1.0°C	76 mm	305	25.15
610-9417	611-3S	-20 to 110°C	1.0°C	76 mm	305	25.15
610-9401	613-3S	-20 to 150°C	1.0°C	76 mm	305	25.15
611-5145	617-3S	-10 to 260°C	2.0°C	76 mm	405	39.45
610-9441	608-3S	-30 to 120°C	1.0°F	76 mm	305	25.15
610-9345	610-3S	0 to 230°C	2.0°F	76 mm	305	25.15

Red /Spirit Filled - Traceable to NIST “True-Tempe” Thermometers—Ertco

- Furnished with certificate proving traceability
- Thermometer safety-coated with teflon
- Thermometer in unbreakable plastic bottle
- Double magnets attached to bottle for wall or door mounting
- Several ranges for a variety of instruments

AWS NO.	SUP. NO.	RANGE	DIVISION	IMMERSION	LENGTH	BOTTLE CONTENTS	APPLICATIONS	PRICE EACH
611-0169	F-010S	-30 to 0°C	0.5°C	Total	125 mm	Propylene Glycol	Freezer	45.10
611-0089	R-020S	-5 to 15°C	0.5°C	Total	125 mm	Ethylene Glycol	Refrigerator	45.10
611-0121	I-030S	-18 to 50°C	0.5°C	Total	135 mm	Ethylene Glycol	Incubator	45.10
611-3953	OV-080S	35 to 200°C	1.0°C	Total	145 mm	Vermiculite	Oven	75.15

Precision Grade Armored Thermometers—Ertco

- Red Spirit filled thermometers
- Precision thermometers in nickel plated brass armors
- Thermometers accurate to within NIST tolerances
- Armors have slotted front for ease of reading
- Armors have a ring top for suspension application
- Thermometers can be Teflon® coated for further protection. Call us for further information.

AWS NO.	SUP. NO.	AWS NO.	REFILL NO.	RANGE	DIVISION	IMMERSION	LENGTH	PRICE EACH	REFILL PRICE
616-8462	611-3SA	616-8525	611-3SR	-20 to 110°C	1°C	76	305	40.70	23.40
616-8469	613-3SA	616-8532	613-3SR	-20 to 150°C	1°C	76	305	40.70	23.40
616-8497	610-3SA	616-8560	610-3SR	0 to 230°F	1°F	76	305	40.70	23.40



thermometers, pocket test

Precision Pocket Test Thermometers—Ertco

The ERTCO pocket thermometer was designed to be conveniently carried around like a fountain pen or pencil. It is mounted in a plated metal case with a pocket clip. They are supplied in a variety of ranges up to 260°C (500°F). They meet NIST requirements for accuracy.

AWS NO.	SUP. NO.	AWS NO.	REFILL NO.	RANGE	DIVISION	IMMERSION	LENGTH	FILLING	PRICE EACH	REFILL PRICE
611-4009	532PX	611-1337	532X	±30 to 120°F	1°F	Total	165	Mercury	28.00	16.60
611-4001	532P	611-1353	532	-30 to 120°F	2°F	Total	165	Mercury	24.80	16.60
611-3985	534PS	611-1281	534S	0 to 220°F	2°F	Total	165	Mercury	28.00	16.60
611-3993	535PS	611-1257	535S	-20 to 105°C	1°C	Total	165	Mercury	28.00	16.60
611-3969	532PXS	611-1329	532XS	30 to 120°F	1°F	Total	165	Red Spirit	28.00	16.60
611-3961	532PS	611-1345	532S	-30 to 120°F	2°F	Total	165	Red Spirit	28.00	16.60

thermometers, Teflon® coated

Teflon® Coated Safety Thermometers—Ertco

ACID PROOF • ALKALI PROOF • SHATTER PROOF • LEAK PROOF

ERTCO's safety-coated thermometers were developed in 1972 for use in the laboratories of the food industry where contamination was a prime concern. Since their introduction they have found a wide variety of applications.

These thermometers are completely sealed within a Teflon® jacket making them impervious to the chemical action of acids and other corrosive materials. The coating absorbs shock and will contain all the glass and mercury within the Teflon jacket should the thermometer break. They are available in various temperature ranges in either Celsius or Fahrenheit. They are furnished in yellow-back tubing for greater legibility and are accurate to within NIST tolerances.

Please note: Mercury thermometers are supplied in yellow backing; Organic spirit thermometers are supplied in white backing.

AWS NO.	SUP. NO.	RANGE	DIVISION	LGTH	IMM.	FILLING	PRICE EACH
611-5281	611-3SC	-20 to 110°C	1°C	300 mm	76 mm	Mercury	31.30
611-5249	613-3SC	-20 to 150°C	1°C	300 mm	76 mm	Mercury	31.30
611-5217	615-3SC	-10 to 200°C	1°C	300 mm	76 mm	Mercury	31.30
611-5145	617-3SC	60 to 260°C	1°C	300 mm	76 mm	Mercury	39.45
611-5297	610-3SC	0 to 230°F	2°F	300 mm	76 mm	Mercury	31.30
611-5265	612-3SC	0 to 300°F	2°F	300 mm	76 mm	Mercury	31.30
611-5233	614-3SC	20 to 400°F	2°F	300 mm	76 mm	Mercury	31.30
611-5177	616-3SC	140 to 500°F	2°F	300 mm	76 mm	Mercury	39.45



thermometers, Teflon® coated

Teflon® Coated Spirit Filled Safety Thermometers—Ertco

- Organic Red-Spirit filled thermometer in teflon jacket
- Accurate to within NIST tolerances
- Individually serialized
- Impervious to acids and other corrosive chemicals
- Liquid and glass stay contained in teflon jacket if breakage occurs

PARTIAL IMMERSION

AWS NO.	SUP. NO.	RANGE	DIVISION	LGTH	IMM.	PRICE EACH
611-5273	611-3SSC	-20 to 110°C	1°C	300 mm	76 mm	31.30
611-5241	613-3SSC	-20 to 150°C	1°C	300 mm	76 mm	31.30
611-5209	615-3SSC	-10 to 200°C	1°C	305 mm	76 mm	31.30
611-5289	610-3SSC	0 to 230°F	2°F	300 mm	76 mm	31.30
611-5257	612-3SSC	0 to 300°F	2°F	300 mm	76 mm	31.30
611-5225	614-3SSC	20 to 400°F	2°F	305 mm	76 mm	31.30

TOTAL IMMERSION

AWS NO.	SUP. NO.	RANGE	DIVISION	LGTH	IMM.	PRICE EACH
611-4121	601-SC	-50 to 50°C	1°C	305 mm	Total	33.45
611-4097	603-SC	-100 to 50°C	1°C	305 mm	Total	59.95

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timers

Traceable® Three-Channel Alarm Timer—Control Company



- Adjustable alarm volume and duration
- Adjustable alarm volume allows setting the timer to high decibel for noisy areas or low for quiet environments.
- Alarm may be set to silence automatically after 1 minute or to sound continuously until turned off. The "continuous" setting makes certain that an alarm is never missed.
- Memory recall
- Memories return the display to the previously programmed time at the touch of a button. Perfect unit to dedicate to a group of repetitive tests. In the stopwatch mode

the timer counts up from zero.

- For increased flexibility, the display allows simultaneous up and down timing on different channels. Unlimited number of time-outs (stop and then resume timing) may be taken. Unit displays date and time of day to the second.
- Quartz-crystal accuracy is 0.00 1%. Four rubber feet keep the timer off a wet bench. Battery provides 1 year of continuous running.
- Traceable®
- Supplied complete with Traceable® certificate, AAA alkaline battery, and 3/8-inch-high LCD digits. Case is chemical-resistant ABS. Size is 3-1/4 x 3 x 1 inches and weight is 3 ounces.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
222-9361	5000	Traceable® Three-Channel Alarm Timer	37.91



Traceable® Four-Channel, Big-Digit Timer—Control Company

Massive, 3/4-inch-high display permits viewing from across the lab. Its micro-computer chip permits setting four separate channels. Set any time from 99 hours, 59 minutes, 59 seconds to 1 second. When zero is reached, the timer starts counting up to show time elapsed since alarming. Additional features include stopwatch, time-out, and time-of-day clock.

All four channels may be used simultaneously in any combination to count down or count up (stopwatch). At the touch of a button the remarkable memory returns the display to the previously programmed countdown time (perfect timer to dedicate to a repetitive test).

Extra-loud, high-decibel alarm sounds for 1 minute or may be silenced manually. Finger-size keys make it easy to set times and change channels.

Magnetic back allows timer to be placed on any metal surface (incubators, water baths, etc.). It also has a flip-open easel for standing on the lab bench, a spring fastener for clipping to a notebook/ clipboard, and an opening for a lanyard. Accuracy is 0.0 1%. Supplied with a 2-year, silver-oxide battery. Size is 2-3/4 x 2-1/2 x 1/2 inches, weight is 2 ounces.



AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
222-9553	5004	Traceable® Four Channel Alarm Timer	21.50

Alarm Timer/Stopwatch—Control Company

Remarkable timer counts down with an alarm and counts up with a time-out feature. You can program it to count down from 99 minutes, 99 seconds to zero in any second increment.

In the stopwatch mode the unit will count up to 59 minutes, 59 seconds and automatically roll over to zero and continue timing.

Extra-large, 3/8-inch-high display and vivid LCD digits continuously show time and are readable from 8 feet. Loud, high-decibel alarm maybe turned off manually or is automatically silenced after 1 minute. Individually numbered keys make setting time faster than units with "up/down" buttons. Timer is accurate to 0.01%.

Magnetic back allows timer to be placed on incubators, titrators, and most lab equipment. It also has a flip-open easel for standing on the lab bench, a spring fastener for clipping to a lab coat, and a hole for a lanyard.

Size is 2-1/2 x 2-1/4 x 1/2 inches and weight is 1-1/2 ounces. Supplied with a 2-year, continuous-use, silver-oxide battery.



AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
222-9545	5020	Traceable® Alarm Timer/Stopwatch	21.50



Pocket Timer—Control Company

Timer is the perfect reminder-ideal for catching lab test results, timing instrument warm-up, and as an appointment alert.

Clip it to your lab coat, carry it with you from the lab, its miniature size (1-1/2" diameter) and light weight (1 oz) make it the convenient pocket timer.

Timer and alarm are wound automatically by turning the pointer to the desired time interval. Arrow always shows time remaining. Three-second buzzer alarm sounds at zero.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
222-4705	1060	One Hour Pocket Timer	26.75

Traceable® Fingertip Timer with Velcro™ and a Magnet—Control Company

Easy-to-use timer has a repeat memory function for repetitive tests. Three-button operation can be learned in less than 10 seconds. Everyone in the lab will enjoy using this "always at your fingertips" timer. May be placed on incubators, refrigerators, and ovens with the magnet on the back. Also supplied with Velcro mounting strips to place the unit on cabinets or walls.

Counts down from 99 minutes, 59 seconds in 1-second increments. Dedicate this unit to a specific test. Memory retains last programmed time, eliminating the need to reenter repetitive test times. Alarm may be silenced manually or turns off automatically after 30 seconds.

Handy size (1-13/16 x 3-1/2 x 1/2") is ideal for use everywhere in the lab. Weighs only 1.2 ounces. Supplied with 2-year, silver-oxide battery, Traceable® certificate, magnet, and velcro.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
222-9569	5042	Traceable® Fingertip Timer	15.20



Tech Board®—Oakton

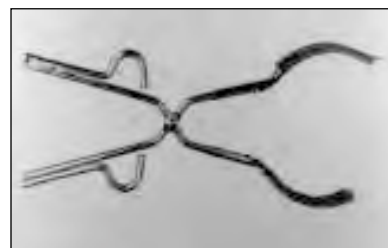
The ultimate technical organizer: a clock, stop-watch, calculator, and clipboard in one com-pact unit! Calculator features full memory and % key. Display shows stopwatch functions on top line and calculator functions on bottom line; it also displays time of day, date and month. Tech Board features all push button operation, a ruler and a paper guide. Common conversion factors and Periodic Table are printed on the clipboard front; instruction manual is printed on back. Solar powered.



AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
224-0814	WD-35001-80	Oakton Tech Board®	48.00

tongs**Beaker Tongs—Humboldt**

Safely handles beakers from 100 to 1500 ml. capacity. Stainless steel with riveted joint. Jaws are fiber glass covered. Overall length: 13-1/2" (318mm).



AWS NO.	SUP. NO.	DESCRIPTION	MATERIAL	LENGTH	PRICE EACH
065-8845	H-23440	Beaker Tongs	Stainless Steel	13 1/2"	51.67

Flask Tongs—Humboldt

Prevents slippage of flasks when gripped by tongs. Stainless steel with riveted joint. "V" jaws open up to 1-7/8" (48mm) dia. Overall length: 9" (29mm).

AWS NO.	SUP. NO.	DESCRIPTION	MATERIAL	LENGTH	PRICE EACH
065-8852	H-23442	Flask Tongs	Stainless Steel	9"	34.33

Dish Tongs—Humboldt

Easily handles evaporating dishes, hollow articles and other objects, from 3" to 4-3/4" (75mm to 120mm) dia. Stainless steel with riveted joint. Overall length: 9-1/2" (241mm).

AWS NO.	SUP. NO.	DESCRIPTION	MATERIAL	LENGTH	PRICE EACH
069-1200	H-23600	Dish Tongs	Stainless Steel	9 1/2"	24.00

Crucible Tongs

AWS NO.	SUP. NO.	DESCRIPTION	MATERIAL	WIRE SZ.	LGTH	PRICE EACH
069-1207	H-23050	Riveted Joint	Steel, Nickel Plated	3/16"	9"	8.33
065-8824	H-23390	Extra Long	Steel, Nickel Plated	1/4"	18"	14.33

Crucible Tongs**9-1/2" (241 MM) STAINLESS STEEL TONGS**

With serrated tapered tips, which meet precisely when closed.

AWS NO.	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
069-1214	320-101	Crucible Tongs	9"	23.25

20" (508MM) STAINLESS STEEL TONGS

With serrated tapered tips, which meet precisely when closed.

AWS NO.	SUP. NO.	DESCRIPTION	SIZE	PRICE EACH
069-1221	320-120	Crucible Tongs	20"	46.00



Natural Latex Rubber Tubing

- Made from natural latex, a thermoset material
- Excellent resilience, tear, and tensile strength
- Made from non-toxic ingredients conforming to FDA standards (amber only)
- NEWTEX Natural is a translucent amber color
- Extremely elastic with excellent memory after repeated stretching
- Contains no plasticizers which can migrate and cause flow contamination or tube hardening

PHYSICAL PROPERTIES** AMBER

Hardness, Shore A ± 5	35
Specific Gravity	.95
Tensile Strength, psi	3500
Elongation at Break, %	750
Brittle Temperature	-65°F
Max. Operating Temp.	180°F

**Values are a guide. Field Testing should be done to find actual values.

NATURAL AMBER

AWS NO.	SUP. NO.	ID	OD	WALL	STANDARD LGTH	LBS/CFT	PRICE EACH
065-2354	270 0110-100	1/16"	1/8"	1/32"	100	1.00	45.38
065-2403	270 0222-100	1/8"	3/16"	1/32"	100	1.50	45.76
065-2396	270 0334-100	1/8"	1/4"	1/16"	100	2.00	59.42
065-2417	270 0446-100	3/16"	5/16"	1/16"	100	2.50	62.02
065-2410	270 0558-100	3/16"	3/8"	3/32"	100	4.00	85.16
065-2424	270 0670-100	3/16"	7/16"	1/8"	100	6.00	117.66
065-2382	270 0782-100	1/4"	3/8"	1/16"	100	3.25	71.12
065-2389	270 0894-100	1/4"	7/16"	3/32"	100	5.25	102.18
065-2375	270 1006-100	1/4"	1/2"	1/8"	100	6.50	139.88
065-2466	270 1118-100	5/16"	7/16"	1/16"	100	3.75	81.00
065-2459	270 1230-50	5/16"	1/2"	3/32"	50	6.25	60.72
065-2473	270 1342-50	5/16"	9/16"	1/8"	50	9.00	83.92
065-2438	270 1454-50	3/8"	1/2"	1/16"	50	5.00	52.98
065-2452	270 1566-50	3/8"	9/16"	3/32"	50	7.00	73.38
065-2445	270 1678-50	3/8"	5/8"	1/8"	50	9.50	99.26
065-2361	270 1790-50	1/2"	11/16"	3/32"	50	9.00	102.12
065-2368	270 1902-50	1/2"	3/4"	1/8"	50	12.50	119.86
065-2431	270 2014-50	3/4"	1"	1/8"	50	17.00	190.20



tubing, PVC

Clear PVC Tubing Fuel & Oil Grade PVC Tubing

- Made from non-toxic ingredients conforming to FDA, 3A, and USDA standards
- PVC compound meets USP class VI requirements
- Listed by the National Sanitation Foundation (NSF 51)
- Glass-like clarity with mirror-smooth surface provides outstanding flow characteristics
- Does not impart a taste or odor
- Lightweight yet tough and abrasive resistant
- As flexible as rubber
- Handles a wide variety of chemicals, gases, and liquids
- Small minimum runs required for colors and custom sizes
- Special Fuel & Oil grade now available from stock

SPECIFICATIONS CLEAR

Hardness Shore A ± 5	68
Specific Gravity	1.20
Tensile Strength, psi	2000
Elongation at Break, %	400
Brittle Temperature	-40°F
Max. Operating Temperature	175°F

CLEARFLO CLEAR

AWS NO.	SUP. NO.	ID	OD	WALL	STANDARD LGTH	WORK PSI AT 700F	BURST PSI AT 700F	LBS/CFT	PRICE/PACK
065-4062	110 0071-500	1/16"	1/8"	1/32"	500	33	132	.51	85.65
065-4293	110 0225-500	3/32"	5/32"	1/32"	500	42	168	.68	85.50
065-4048	110 0302-200	.120"	.170"	.025"	200	15	60	.64	37.85
065-4132	110 0379-500	1/8"	3/16"	1/32"	500	44	176	.85	124.95
065-4125	110 0456-100	1/8"	1/4"	1/16"	100	68	272	2.10	28.30
065-4391	110 0687-100	5/32"	11/32"	3/32"	100	73	292	4.1	82.30
065-4055	110 0764-100	.170"	1/4"	.040"	100	42	168	1.5	46.45
065-4265	110 0841-100	3/16"	1/4"	1/32"	100	33	132	1.2	31.15
065-4279	110 0918-100	3/16"	5/16"	1/16"	100	55	220	2.7	38.30
065-4272	110 0995-100	3/16"	3/8"	3/32"	100	70	280	4.6	67.55
065-4286	110 1072-100	3/16"	7/16"	1/8"	100	80	320	6.9	91.60
065-4111	110 1149-100	1/4"	3/8"	1/16"	100	55	220	3.4	46.95
065-4118	110 1226-100	1/4"	7/16"	3/32"	100	60	240	5.7	72.30
065-4104	110 1303-100	1/4"	1/2"	1/8"	100	70	280	8.3	109.80
065-4377	110 1380-100	5/16"	7/16"	1/16"	100	50	200	4.2	53.20
065-4370	110 1457-100	5/16"	1/2"	3/32"	100	60	240	6.8	84.45
065-4384	110 1534-100	5/16"	9/16"	1/8"	100	70	280	9.7	122.25
065-4335	110 1611-100	3/8"	1/2"	1/16"	100	40	160	4.8	63.45
065-4356	110 1688-100	3/8"	9/16"	3/32"	100	50	200	7.8	104.40



Silicone Tubing 1/16" Wall (for Varistaltic Pumps/Dispensers—Manostat)

AWS NO.	SUP. NO.	DESCRIPTION	LENGTH	PRICE/PACK
061-3497	75-300-420	Manosil 1/32" ID x 1/16" Wall	50 ft	43.00
061-3481	75-300-430	Manosil 1/16" 1.0 x 1/16" Wall	50 ft	46.00
061-3545	75-300-450	Manosil 3/32" 1.0 x 1/16" Wall	10 ft	15.00
061-3553	75-300-455	Manosil 3/32" 1.0 x 1/16" Wall	50 ft	59.00
061-3417	75-300-500	Manosil 1/8" 1.0 x 1/16" Wall	10 ft	15.00
061-3425	75-300-505	Manosil 1/8" 1.0 x 1/16" Wall	50 ft	62.00
061-3513	75-300-550	Manosil 3/16" 1.0 x 1/16" Wall	10 ft	19.00
061-3521	75-300-555	Manosil 3/16" 1.0 x 1/16" Wall	50 ft	72.00
061-3393	75-300-600	Manosil 1/4" 1.0 x 1/16" Wall	10 ft	30.00
061-3401	75-300-605	Manosil 1/4" 1.0 x 1/16" Wall	50 ft	125.00
061-3569	75-300-650	Manosil 5/16" 1.0 x 1/16" Wall	10 ft	39.00
061-3577	75-300-655	Manosil 5/16" 1.0 x 1/16" Wall	50 ft	165.00
061-3433	75-300-700	Manosil 3/8" 1.0 x 1/16" Wall	10 ft	40.00
061-3441	75-300-705	Manosil 3/8" 1.0 x 1/16" Wall	50 ft	180.00

info

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index



tubing, Teflon®

PTFE, FEP, and PFA Formulations

- Chemical inert; low permeability
- Lowest coefficient of friction of any solid material
- Widest service temperature of any plastic tubing (-275°F to 500°F)
- Excellent electrical and weatherability properties; non-flammable
- Made without plasticizer which can leach into critical streams

PTFE (Polytetrafluoroethylene) resin is supplied in powdered form, which is extruded into a paste, and then finally tubing. It is translucent white in color.

Physical Properties**	PTFE
Hardness, Shore D	50-55
Specific Gravity	2.14
Tensile Strength, psi	3200
Elongation at Break, %	250-450
Brittle Temperature	<-275°F
Max. Continuous Operating Temp.	500°F

PTFE

AWS NO.	SUP. NO.	ID	OD	WALL	STANDARD LGTH	PRICE/PACK
065-3656	300 0536-50	1/8"	1/4"	.063"	50 ft	122.97
065-3698	300 0690-50	3/16"	1/4"	.030"	50 ft	70.97
065-3705	300 0767-50	3/16"	5/16"	.063"	50 ft	180.38
065-3649	300 0844-50	1/4"	5/16"	.030"	50 ft	89.92
065-3642	300 0921-25	1/4"	3/8"	.063"	25 ft	128.38
065-3747	300 0998-25	5/16"	3/8"	.030"	25 ft	59.05
065-3733	300 1229-25	3/8"	1/2"	.063"	25 ft	184.72
065-3775	300 1306-25	7/16"	1/2"	.030"	25 ft	79.63
065-3614	300 1537-25	1/2"	5/8"	.063"	25 ft	257.30
065-3810	300 1614-25	9/16"	5/8"	.030"	25 ft	104.00
065-3768	300 1845-25	5/8"	3/4"	.063"	25 ft	348.30
065-3670	300 1922-25	11/16"	3/4"	.032"	25 ft	134.33

tubing, accessories

Straight Connectors (PP)—Dynalon

Autoclavable polypropylene straight connectors have serrations to hold tubing tightly and prevent slipping.

AWS NO.	SUP. NO.	FITS TUBING ID	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
031-8833	227235	4-5 mm	20	100	12.60	55.60
031-8841	227245	6-7 mm	20	100	16.15	71.00
031-8849	227255	8-9 mm	20	100	16.95	74.10
031-8809	227265	10-11 mm	20	100	15.45	69.90
031-8817	227275	12-13 mm	10	100	10.20	88.90
031-8825	227285	14-15 mm	10	100	11.85	95.30



Quick Disconnects (LDPE)—Dynalon

These polyethylene quick disconnects are useful for joining tubing of glass, rubber, or plastic. Connectors fit tightly together. They are tapered to accommodate a range of diameters. Replaces expensive adapters. Reducing connectors can be made by combining:

- **No.228705 with 228715 to accept 4-5-6-7-8 mm I.D. tubing**
- **No.228725 with 228765 to accept 8-9-10-11-12mm I.D. tubing**
- **No.228775 with 228785 to accept 12-13-14-15-16mm I.D. tubing**

AWS NO.	SUP. NO.	FITS TUBING ID	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
031-0073	228705	4-5-6 mm	20	100	19.25	90.00
031-0081	228715	6-7-8 mm	20	100	21.70	98.50
031-0089	228725	8-9-10 mm	20	100	22.50	100.10
031-0049	228765	10-11-12 mm	20	100	25.30	117.30
031-0057	228775	12-13-14 mm	10	100	16.20	146.50
031-0065	228785	14-15-16 mm	10	100	18.15	157.70

Y Connector (PP)—Dynalon

- **Autoclavable**

AWS NO.	SUP. NO.	FITS TUBING ID	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
032-1217	222545	4 mm	20	100	15.65	72.30
032-1225	222555	6 mm	20	100	18.05	83.40
032-1233	222565	8 mm	20	100	19.20	87.40
032-1185	222575	10 mm	20	100	26.85	117.30
032-1193	222585	12 mm	20	100	29.10	129.00
032-1201	222595	14 mm	10	100	15.60	137.60
032-1209	222605	16 mm	10	100	18.15	165.10

"T" Connector (PP)—Dynalon

- **Polypropylene**

AWS NO.	SUP. NO.	FITS TUBING ID	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
031-8969	227905	4 mm	20	100	15.65	72.30
031-8977	227915	6 mm	20	100	18.05	83.40
031-8985	227925	8 mm	20	100	19.20	87.40
031-8937	227935	10 mm	20	100	26.85	117.30
031-8945	227945	12 mm	20	100	29.10	129.00
031-8953	227955	14 mm	10	100	15.60	137.60
031-8961	227965	16 mm	10	100	18.15	165.10

Tubing Cutter—Dynalon

Handy, pocket sized cutter will cut tubing from 1/16 to 1" O.D. with a minimum of effort. Hardened steel blade produces clean right angle cuts. Cutter jaw is spring loaded and closes automatically. Handy, pocket sized cutter will cut tubing from ~4a to A" O.D. with a minimum of effort. Hardened steel blade produces clean right angle cuts. Cutter jaw is spring loaded and closes automatically. Blades are easily replaced.

AWS NO.	SUP. NO.	DESCRIPTION	PRICE
032-0025	610924	Tubing Cutter	12.98



tubing, accessories

FITTING ASSORTMENT—Bel-Art

76 Piece - Gone are the days when all work had to stop for the lack of a single connector. This rich assortment has everything needed in daily routine set-ups, as follows:

10	Straight Tubing Connectors	-2 of each size
12	Straight-Stepped Tubing Connectors	-2 of each size
12	T Connectors	-2 of each size
12	Y Connectors	-2 of each size
6	Quick Disconnects	-2 of each size
24	Polyethylene Cup-Type Stoppers	-2 of each size

AWS NO.	SUP. NO.	DESCRIPTION	PRICE
031-1193	F19625-0000	Fitting Assortment	70.95



DRT-15CE PORTABLE TURBIDIMETER—HF Scientific**STANDARD FEATURES**

- **Rugged Portable Carrying Case:** Ensures durability and convenience no matter where your laboratory happens to be.
- **Completely Self-Contained:** Provides easy access to everything, you need to take a measurement.
- **Three User Selectable Ranges** Provides accuracy in a wide variety of applications from 0 to 1000 NTU.
- **20 Hour Rechargeable Battery:** Always be ready to go with up to 20 hours of continuous operation when fully charged.

OPTIONAL FEATURES

- **Automobile Adapter:** Charge and operate the DRT-15CE from the cigarette lighter in your automobile.
- **Secondary Calibration Standards** Quick and easy calibration across all ranges without the need to mix Formazin
- **Formazin Stock Solution Kit** Contains everything you need to calibrate the DRT-15CE with Formazin, the primary calibration standard.
- **Designed to provide the rugged portability** needed in the field with the accuracy demanded in the laboratory, the EPA approved* DRT-15CE has become a "must have" for anyone monitoring turbidity on the go. The integral carrying case holds everything needed for field operation. With resolution of 0.01 NTU and an extended range to 1,000 NTU, the DRT 15CE is a perfect fit for both field and laboratory use.

SPECIFICATIONS

Range:	0- 10 NTU 0-100 NTU 0- 1000 NTU
Accuracy:	0.10 NTU, $\pm 1\%$ of full scale 0-100 NTU, $\pm 5\%$ of full scale 0-1000 NTU, $\pm 10\%$ of full scale
Resolution:	0.1% of selected range
Response Time:	Immediate
Sample Size:	25 ml (16 ml minimum)
Operating Temperature:	320. 1220F (00. 500C)
Battery:	6V gel-cell rechargeable with 20 hours of continuous use when fully charged
Recharge Time:	8 hours to full charge
Dimensions:	11 x 8 x 5 inches (28 x 20 x 14 cm)
Weight:	5 lbs (2.27 kg)
Standards Compliance:	USEPA, CE Approved

AWS NO.	SUP. NO.	DESCRIPTION	PACK PRICE
224-2814	19057	Portable Turbidimeter DRT-15CE	1035.00

ACCESSORIES

AWS NO.	SUP. NO.	DESCRIPTION	PRICE
221-1593	19045	12V Automobile Adapter	42.85
222-7049	19071	Secondary Standard Calibration Kit	240.00
180-5481	50051	Cuvettes with Light Shield Caps, 3 pk	35.75
180-5473	50052	Cuvettes with Light Shield Caps, 10 pk	125.00



DRT-100B Series Turbidimeters—HF Scientific**• Laboratory/Research**

The HF DRT-100B is a versatile benchtop turbidimeter, used for everything from potable water to beverages to circuit board cleaning solutions. It features Ratio optics, provides a linear response from 0 to 1000 NTU, eliminating the need for separate calibration checks at each range. The DRT-1008 Research version is provided with a flow through assembly, 0-1 and 4-20 milliamp outputs, a relative light transmission mode to measure solutions containing up to 15% solids, an alarm contact and set point for quality control applications.

SPECIFICATIONS FOR DRT-1008/BR

Range:	0-1,0-10,0-100,0-1000 NTU
Accuracy \pm of reading:	1%
Resolution:	0.01
Sample Size:	16 ml
Power:	120/240 volt, 50/60 Hz, 45VA
Shipping Dimensions:	10" x 8" x 8" inches (27 x 21 x 22cm)
Shipping Weight:	12 lbs. (5.5 kgs.)

AWS NO.	SUP. NO.	DESCRIPTION	PRICE
221-5017	20012	Ratio Digital Lab Turbidimeter DRT-100B	1715.00
221-5025	20052	Ratio Digital Lab Turbidimeter with Options DRT-100BR	2035.00

ACCESSORIES

AWS NO.	SUP. NO.	DESCRIPTION	PRICE
051-0800	19887	Secondary Standard Set	195.00
050-1017	50040	Formazin Stock Solution Kit	245.00
180-5481	50051	Cuvettes with Light Shield Caps, 3 pk	37.20
061-2785	50096	Lamp Source with Leads, 2 pk	35.95
051-0807	60002	Reference Standard 0.02 NTU	55.10
061-2449	70713	Accessory Kit	141.05



Glass Disposal Box-Dynalon

- Fold up design for easy storage • Safety lid closes for disposal
- Prevents accidental cuts by keeping broken glass separate from other trash

Keep broken glass separate from other waste to prevent cuts and serious injury. Sturdy corrugated boxes are lined with tough polyethylene bags for proper disposal. Legend and colorful graphics encourage proper use. Stores flat, printed instructions for easy assembly on each unit. Unique integral lid provides added safety. When box is full, simply remove lid and flip up rear flap to seal top. Floor models measure 12" L x 12" W x 27" H (30 x 30 x 69cm). Bench top models measure 8" L x 8" W x 10" H (20 x 20 x 25cm). Intermediate model measures 12" L x 12" W x 20" H (30 x 30 x 51cm).

AWS NO.	SUP. NO.	DESCRIPTION	QTY/CASE	CASE PRICE
070-5913	797005	Floor Model	6	41.15
070-5905	797015	Bench Model	6	31.10
070-5921	797035	Intermediate Model	6	45.25



Biohazard Burn-Up Bin™-Dynalon

- Fold-up design for easy storage
- Safety lid closes for disposal
- Keeps Biohazard waste contained

The Dynalon Burn-Up Bin holds biohazard waste within a 2 mil liner, ready for disposal. Colorful graphics and large biohazard symbol readily identifies carton for proper usage. The tight fitting lid has a covered flap opening to deposit material. Simply close the safety lid and transfer the filled Burn-Up box to the incinerator for disposal. Floor models measure 12" L x 12" W x 27" H (30 x 30 x 69 cm). Bench top models measure 8" L x 8" W x 10" H (20 x 20 x 25 cm). Intermediate model measures 12" L x 12" W x 20" H (30 x 30 x 69 cm).

AWS NO.	SUP. NO.	DESCRIPTION	QTY/CASE	CASE PRICE
070-3929	797025	Floor Model	6	45.20
070-3921	797045	Bench Model	6	31.10
070-3937	797065	Intermediate Model	6	45.10



Holder, Box & Bin-Dynalon

Unique design helps protect laboratory personnel from accidental cuts from broken glass. Simply insert your optional corrugated Glass Disposal Box (Cat. Nos. 797005, 797015, 797035) or Biohazard Burn-Up Bin (Cat. Nos. 797025, 797045, 797065) into the three-piece holder which consists of a bottom tray, a rectangular center shield and a top lid. When the box is full, simply remove the acrylic top and center shield and leave the box on the bottom trays as protection during transportation for disposal. Once disposal is complete, reassemble the entire unit and insert a new Glass Disposal Box or Biohazard Burn-Up Bin. Units may also be used to hold heavy-duty plastic disposal bags.

AWS NO.	SUP. NO.	DESCRIPTION	DIMENSIONS	PRICE EACH
030-5697	197074	Floor Model	13 x 13 x 27 3/4" H ID	315.25
030-5689	197084	Bench Model	10 x 10 x 10 3/4" H ID	116.20
030-5705	197094	Intermediate Model	13 x 13 x 20 1/2" H ID	220.15

watch glass

**PYREX brand,
Ribbed WatchGlass/ Beaker Cover–Corning**

Designed for use as a beaker cover. Ribs are molded into the glass so that they can't pop off as they do when cane is sealed to standard watch glasses. Permits reflux of digestate and escape of excess vapor.

Eliminates risk of contamination from dropped hooks or props. Meets EPA requirements for methods 3005, 3010, and 3020.

AWS NO.	SUP. NO.	TYPE	FITS BEAKER SIZE	DIAMETER	QTY/CASE	CASE PRICE
013-5929	9990-75	Ribbed	250	75	12	54.54
013-5913	9990-100	Ribbed	600	100	12	66.97
013-5921	9990-125	Ribbed	1000	125	12	90.25



Nanopure® Infinity UV (Ultraviolet)- Barnstead Thermolyne

The NANOpure Infinity UV system provides you water that is not only free of ionic contamination but organics as well. The ultraviolet light emits both a 254 nm and 185 nm wavelength light source that work together to oxidize organic molecules. The patented ORGANIC free cartridge ensures that the water quality, with less than 1 ppb organics and resistivities up to 18.3 megohm-cm, is produced and maintained:

INCLUDES ALL OF THE BENEFITS OF A NANOPURE INFINITY BASE SYSTEM PLUS THE FOLLOWING ADDED BENEFITS:

- Produces up to 1.8 LPM of water with less than 1 ppb organics and resistivities up to 18.3 megohm-cm.
- Ideal for your most critical organic determinant analysis including low wavelength HPLC, gas chromatography, GC/MS, IC (Ion Chromatography) and TOC (Total Organic Carbon) analysis.
- The dual wavelength UV lamp maintains a bacterial free environment within the system while lowering the TOC.
- Infinity UV can be upgraded in your lab with a UF module to make a UV/UF Infinity for RNase and DNA free applications.
- The unique design of the NANOpure Infinity UV assures that the system produces water with < 1 ppb TOC at a lower cost per liter than competitive models.
- Maximum contact time between the water and the UV lamp and cartridges ensures that low organic water is maintained as you are dispensing.
- The UV lamp is energized periodically in standby maintaining both the ionic and organic purity within the system during periods of inactivity.
- System automatically reminds you when it's time to change the UV lamp.



APPLICATIONS

- Gas chromatography (GC)
- Gas chromatography/mass spectrometry (GC/MS)
- High performance liquid chromatography (HPLC)
- Ion chromatography (IC)
- Total organic carbon (TOC)

AWS NO.	SUP. NO.	DESCRIPTION	VOLTS	AMPS	PRICE
270-4249	D8971	UV	120	3	5753.00
181-6200	LMX13	UV Lamp Replacement			87.00

water purification, deionization CONTINUED

Hose Nipple Cartridges–Barnstead Thermolyne



Hose nipple cartridges utilize the same superior quality resins used in PCS cartridges. The 100% virgin polypropylene cartridge rinses to high quality quickly. Designed for non-pressure applications', these cartridges include 3/8" (1 cm) barbed hose con-nections on each end. All cartridges (except D8904 and D8911) contain dyes which change color when resin is exhausted. Hose nipple cartridge holder part #D8900.

AWS NO.	SUP. NO.	DESCRIPTION	RESIN TYPES	CAPACITY	LENGTH	PRICE EACH
180-3905	D8901	High capacity	High capacity, two bed	1725 grains as NaCl	18.7	81.40
180-3953	D8902	Ultrapure	Mixed Bed	760 grains as NaCl to 1 megaohm.cm endpoint	18.7	81.40
180-3929	D8904	Organic removal	Activated Carbon	NA	18.7	68.20
180-3865	D8905	Cation removal	Cation	2500 grains as NaCl	18.7	68.20



water purification, distillation

Mega-Pure® Glass Still-Barnstead Thermolyne

MP-12A

- Vertical condenser design provides maximum purity.
- High temperature cut-off shuts down the glass still if temp. is too high, preventing heating element burn-out.
- All Pyrex®, Vycor, and Teflon components for ultimate purity.
- Quick release cover for easy cleaning access.
- Can be connected to Automatic Collection System (ACS) for a 24 hour automatic system.
- Can be wall or bench-mounted depending on lab space requirements.
- Includes feedwater solenoid valve for automatic operation; Built-in deionizer for pretreated feed to boiler; Distillate cooler allows product water to be used as it is produced-no need to wait for cooling; UL and CSA approved.A



WS NO.	SUP. NO.	PRODUCT WATER CAP.	ELECTRICAL	COOLING WATER	PRICE EACH
222-7953	A440266(MP-1)	1.4 LPH	120 V	11.3 LPH	1790.80
222-7945	A440267(MP-1)*	1.4 LPH	120 V	11.3 LPH	1925.00
270-5401	A440696(MP-3A)	3.4 LPH	208 V	30.3 LPH	3305.90
270-5417	A440697(MP-6A)	6.0 LPH	208 V	53 LPH	4408.80
270-5369	A440117(MP-11A)	13 LPH	240 V	130 LPH	7132.40
270-5385	A442012(MP-12A)	12 LPH	208 V	130 LPH	9310.40

*Includes 034-0900 Storage Bottle

water purification, reverse osmosis

Ropure® Infinity-Barnstead Thermolyne

- Each unit is capable of producing up to 15 or 30 liters per hour of laboratory grade water to meet your needs.
- Systems are wall and bench mountable, providing you the opportunity to choose the best location.
- An integral pump provides consistent operation and flow rates.
- Automatic or manual flush cleanses RO membranes for 10 minutes every four hours, eliminating contaminant build up.

PREMIER SYSTEM

- The large pivoting LCD display allows you to constantly monitor the water quality to ensure optimum system performance.
- This unit includes a special Membrane Protection System (MPS) to enhance membrane life and performance. This unique system inhibits scale build up on the membrane surface to give you the best performance possible.
- System can display membrane % rejection, water conductivity, resistivity, TDS level and more! Plus, it automatically reminds you when it's time to change the pretreatment and MPS cartridges.



AWS NO.	SUP. NO.	TYPE	FLOW RATE	VOLTS	UNIT INCLUDES	PRICE EACH
271-3900	D9011	Premier	15 L/Hr	120 V	1 membrane, 1 prefilter, 1 carbon cartridge, 1 MPS cartridge	5544.00
271-3907	D9014	Premier	30 L/Hr	120 V	2 membranes, 1 prefilter, 1 carbon cartridge, 1 MPS cartridge	6468.00



water/wastewater kits

CP-15 Chlorine Photometer-HF Scientific



- **Laboratory Accuracy In the field-** microprocessor technology together with rugged construction ensures accuracy and durability in the roughest environments.
- **DPD Dispenser- New Powder Pop Dispenser~** simplifies the handling of DPD reagent.
- **Auto Shut Off-CP-15** extends battery life by automatically shutting off when not in use.
- **EPA Approved Method-Meets Standard Method 4500-Cl G. DPD Colorimetric Method** for measuring residual chlorine.

SPECIFICATIONS:

Range:	0-6.0 ppm
Resolution:	0.01 ppm
Accuracy:	± 2%
Response Time:	3 seconds
Light Source:	Temperature compensating LED
Sample Size:	5 ml
Display:	16 digit alpha-numeric LCD
Keypad:	Splash proof tactile membrane
Power:	9 volt battery (up to 1000 tests)
Dimensions:	10.5 x 7 x 3 inches (26.7 x 17.8 x 7.6 cm)
Weight:	1.73 lbs (0.78 kg)

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
221-3553	10470	CP-15 Chlorine Photometer with DPD Free reagent	350.00
221-3561	10471	CP-15 Chlorine Photometer with DPD Total reagent	350.00



ACCESSORIES

AWS NO.	SUP. NO.	DESCRIPTION	PRICE
221-4769	10445	DPD Powder Pop Dispenser for free chlorine includes enough DPD reagent for 400 tests	44.00
221-4785	10446	DPD Powder Pop Dispenser for total chlorine includes enough DPD reagent for 400 tests	44.00
180-7273	10431	Disposable Cuvettes, 100 per pkg	126.00
050-1057	10451	2.0 ppm Reference Standard Solution, 125 mL	35.00

MODEL SW-04 Wastewater Lab-LaMotte

This self-contained laboratory includes a one liter plastic Imhoff Cone with support stand and polycarbonate setdeometer for measuring settleability. Critical pH measurements are performed with the Model DFIA 3000 (Code 1707-02) digital pH meter. A maintenance free, gel-filled combination electrode, and three pH buffers (4.00, 7.00, 10.00) are provided. The Wastewater Lab also includes the Dissolved Oxygen (Code 7414) and Chlorine (Code 3176) test kits.

FACTOR	METHOD	RANGE (#TESTS)
Free & Total Chlorine	DPD-FAS	0-10 ppm (50)
Dissolved Oxygen	Winkler	0-10 ppm (50)
Settleable Solids	Gravimetric	0-1000 mL/L(Unlimited)
Settleability	Gravimetric	0-100% (Unlimited) to 500C (Unlimited)
Temperature Meters		-50 TO 500C(Unlimited)
Digital pH meter	0-14 pH	

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
068-6174	7946-03	SW-04 Wastewater Lab	955.00
069-0451	R-7946-03	Reagent Refill	72.00



Alkalinity/Hardness Titration-LaMotte

Combination outfit designed to meet EPA testing protocol for determining water supply alkalinity and hardness. Features automatic buret titration for easy endpoint determinations.

FACTOR	METHOD	EQUIVALENCE (# TESTS)
P/T Alkalinity	Neutralization	1 mL = 2.5 mg as CaCO ₃ (50+)
Ca Hardness	Complexometric	1 mL = 0.25 mg as CaCO ₃ (50+)

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
068-3612	7193	Alkalinity/Hardness Titration	235.00
068-9863	R-7193	Reagent Refill	32.30

Water Pollution Detection Outfit-LaMotte

This outfit measures 11 key parameters that signal contamination of natural waters by pollution. The choice for environmental studies. Includes handbooks and report forms.

OCTET COMPARATOR TESTS

Ammonia	Nessler	1.0-8.0 ppm (50)
Nitrate & Phosphate	Cadmium Reduction!	0.2-1.0 ppm (40)
Ascorbic Acid		0.2-1.0 ppm (50)
pH	Wide Range	3.0-10 pH (50)
Silica	Molybdosilicare	0.5-10 ppm (50)
Sulfide	Pomeroy	0.2-20 ppm (50)

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
067-8635	5917-01	Water Pollution Detection Outfit AM-22	455.00
068-9149	R-5917-01	Reagent Refill	165.00

General Water Analysis—LaMotte



FACTOR	METHOD	RANGE (# TEST)
Ammonia	Nesslerization	0-3.0 ppm (50)
Chlorine	DPD	0-4.0 ppm (100)
Bromine	DPD	0-10ppm(100)
Iodine DPD	0-16ppm(100)	
Chromium (Hexavalent)	Diphenylcarbazide	0-1.0 ppm (100)
Copper	Diethyldithiocarbamate	0-5.0 ppm (100)
Fluoride	SPADNS	0-2.0 ppm (50)
Iron Bipyridyl	0-5.0 ppm (50)	
Nitrate	Cadmium Reduction	0-3.0 ppm (20)
Nitrite Diazotization/Coupling	0-0.7 ppm (20)	
Phosphate	Ascorbic Acid Reduction	0-3.0 ppm (50)
Silica Heteropoly Blue	0-4.0 ppm (50)	
Sulfate	Barium Chloride	0-100 ppm (50)
SulfideMethylene Blue	0-3.0 ppm (50)	
Turbidity	Absorption (No Reagents)	7-400 NTU (Unlimited)

DIRECT READING TITRATOR TESTS

FACTOR	METHOD	RANGE (# TEST)
Alkalinity	Neutralization	0-200 ppm (50 at 200ppm)
Carbon Dioxide	Neutralization	0-200 ppm (50 at 50ppm)
Chloride/Salinity	Argentomeric	0-200 ppm (50 at 200 ppm)
Dissolved Oxygen	Azide Modification of Winkler Method	0-10 ppm (50 at 10 ppm)
Hardness (Calcium, Magnesium & Total)	Complexometric	0-200 ppm (50 at 200 ppm)

AWS NO.	SUP. NO.	DESCRIPTION	PRICE EACH
066-5328	1706-02	DHA-3000 pH (range-pH 0-14)	395.00
066-5524	1752-01	CDS-5000 Conductivity/TDS (range 1-1999µS/cm)	525.00
066-6301	1991	SCL-04 Model SMART Colorimeter, without pH & Conductivity	1410.00

wipers

Soft-Tech Wiper

AWS NO.	SUP. NO.	DESCRIPTION	SIZE	QTY/PACK	QTY/CASE	PACK PRICE	CASE PRICE
181-6332	8147	Single Ply Soft & Absorbent Wiper	13.5 x 17"	140	15	6.10	91.50
181-6339	8148	Single Ply Soft & Absorbent Wiper	4.5 x 8.5"	280	60	2.16	129.60
181-6346	8357	Three Ply Soft & Absorbent Wiper	15 x 17"	90	15	8.42	126.30



Absorbents		B.O.D.		Dishes	
Bench Protectors	25	Bottles	27	Evaporating	57
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Alconox	45	Beads/Stones	28	Disposal	
Alcotabs	46	Borers	147	Biohazard Box	169
Aluminum Foil	7	Bottles	26-35	Broken Glass	169
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Ammonia Probes	116	B.O.D.	27	Dissecting	
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