



**BELCO
GLASS, INC**

BELCO BIOTECHNOLOGY CATALOG



BELCO... BUILT TO LAST



FROM THE PRESIDENT



Our goal at Bellco Glass, Inc. continues to be the design and manufacture of the finest products available for the global biotechnology industry. Our success and reputation, both domestically and internationally, are the results of 80+ years of product development based upon customer input and total satisfaction. We have learned to listen BETTER. Over the past few years we have updated our ISO Quality Management System to the new ISO 9001:2015 Standard. Bellco is proud of the continuing contributions that our glassware and equipment make to researchers in the biological and medical sciences.

We remain enthusiastic in our search to explore new opportunities for our various manufacturing capabilities that will keep us on the cutting edge of future technology. As well as provide quality products to the biotechnology marketplace.

The Bellco Quality Management System is based upon the eight basic principles listed below:

1. **Customer focus** – We have learned to listen better to our CUSTOMERS; understanding current and future needs while striving to exceed expectations.
2. **Provide leadership** – We have created a management environment that establishes and meets our measurable objectives.
3. **Involvement of employees** – We involve our employees in cross training to develop and use their abilities at all levels for the organization's benefit.
4. **Process approach** – We have redefined a number of our processes to improve the management of all activities.
5. **Systems approach to management**– We continue to update our operating systems which allows our organization to be more effective.
6. **Continuous improvement** – We have made this the BACKBONE of our Quality Management System by continuing to implement improved processes.
7. **Factual approach to decision making** – We have also learned to listen better to our internal customers and the importance of starting with good information to make good decisions.
8. **Improve supplier relationships** – When we get our supplies involved it becomes a WIN – WIN situation.

Bellco encourages an open dialogue with all our Customers. Please feel free to contact any of our Field Sales or Customer Service Representatives. The Bellco Management Team is committed to listening BETTER.

Steven J. Harker
President and CEO
Bellco Glass, Inc.



Pricing

The prices in this proposal supersede all previous prices and are subject to change without notice. Prices are in US dollars and are subject to all federal, state, and local taxes.

Note: Bellco Glass, Inc. minimum order requirement is \$50.00.

Shipping

All items are shipped F.O.B Vineland, New Jersey with the charges prepaid and added to the invoice. Special shipping instructions should accompany your order. We will select the best method if none is specified. Air shipments are available for an additional charge. Delivery of large products shall be to the customer's loading dock. It is the customer's responsibility to arrange movement from the loading dock to the site of use, unless otherwise agreed to by Bellco Glass, Inc. Products requiring special packaging or crating may incur additional handling fees.

Special Orders

Bellco offers over one thousand glass and equipment products. Many more are available as SPECIAL items. These items are manufactured upon receipt of your purchase order. Please inquire about their availability, minimum order quantities, price and delivery. On all orders exceeding 10 units, we reserve the right to ship 10% overrun or underrun and invoice in the actual quantity shipped.

Terms

Payment terms are net 30 days. Shipping, handling, special shipping containers and insurance charges are prepaid and added to the invoice. State and local taxes will be added to the invoice where applicable. Payment on partial deliveries will be due on products delivered. Prices and specifications are subject to change without notice. Incorrect prices due to typographical errors are not binding. All sales are subject to the prior approval of Bellco Credit Department. We also accept Visa®, MasterCard®, and American Express® as well as checks and money orders. C.O.D. Shipments are also available.

Warranty

Bellco Glass, Inc. warrants to the original purchaser, its products to be free from defects in material and workmanship for a period of one(1) year from the date of shipment, unless otherwise specified. Our obligation under warranty is limited to, at our option, repair, replace, or cause any necessary repairs to be made to, any defective part or parts, which shall be returned to us. Bellco takes no responsibility for damage to merchandise in transit. All such claims must be submitted to the carrier. This warranty shall not apply to any equipment or parts which shall have been repaired or altered outside our factory, or subjected to misuse, negligence, accidents, faulty installation by other parties, or unauthorized repairs or modifications. In addition, Bellco Glass, Inc., shall not be responsible to the original purchaser or any other party or parties for bodily or property loss, damages, or injuries of any kind or nature through either direct or indirect use of the product. This warranty is made expressly in lieu of any and all other warranties, expressed or implied, or statutory as to the merchantability, fitness for purpose sold, description, quality, productiveness, or any other matter. All other such warranties are specifically excluded.

Product Specifications

Bellco makes every effort to provide accurate product specifications. However, our continued efforts of product improvements and supplied product availability may change listed specifications. Thus, specifications are subject to change without notice. Please inform us of any situation that negatively affects your application.

Handling Claims

Bellco makes every effort to provide adequately pack merchandise to ensure safe arrival at its destination. However, should you receive damaged merchandise, follow these steps for prompt replacement or adjustment.

1. **Please unpack, inspect and notify Bellco Glass if any damages or discrepancies within 10 business days.** Common carriers will not honor claims if not Filed promptly.
2. Do not discard any packing material or merchandise.
3. **NOTIFY THE FREIGHT AGENT AT ONCE** for inspection and preparation of claim documents.
4. If the carrier will not perform the inspection, prepare an affidavit stating that they were contacted on a certain date and that they failed to comply with the request. This will support the claim.
5. Send a copy of the claim document along with your name, address and order number to our Customer Service Department which will advise you on the proper method of handling.

Returns

Return order **MUST** be authorized by Bellco Glass, Inc. Please contact Customer Service for a Returned Goods Authorization (RGA) number. RGA numbers will be effective for 30 days. All returns have a restock fee upon agreement.

Items classified as specials are not returnable. Bellco Glass, Inc. recognizes that products sold to its customers may have been subjected or exposed to biohazardous material, radioisotopes, carcinogenic, mutagenic or other potentially hazardous substance or material. Therefore, it is imperative that you meet the following conditions to ensure the safety of Bellco employees and non-employee incidental contact during shipping and handling.

Autoclave, disinfect and clean all Labware and Equipment to minimize biohazards, radioisotopes or other potential chemical hazards. Wipe down items with alcohol, diluted bleach or a commercial disinfectant. Duly note prior exposure to any biohazard and radioisotope or chemical hazard so that Bellco can apply the appropriate handling measures. Your safety or radiation safety officer must supply a letter stating compliance with these measures.

Autoclave and clean all Glassware and Non-Mechanical Labware. Product is to be free of biohazards, radioisotopes or other potential chemical hazards. Leave the autoclave indicator (tape or label) on the product to confirm decontamination.

Please label broken glassware submitted for repair or analysis as such.

Patents

We cannot assume responsibility for patent infringements on items made to customer specifications. This publication shall neither be construed as recommending the infringement of any patent, nor extending any license, expressed or implied, nor assuming any liability under any issued or pending patent.

Shipping Weight

Weights shown within this catalog are approximate and should not be considered the final shipping weight for calculating shipping charges.

Equipment

Equipment shall be disinfected and cleaned to minimize biohazards, radioactivity or chemical hazards. Items should be wiped down with disinfectants such as alcohol, diluted bleach or commercial disinfectant.

Personalized Pipettes and Color Coding

Bellco offers pipettes personalized with customer's choice of identification, such as name, department, project number, etc. Bellco can also color code pipettes.

Personalized Glassware

Bellco can permanently amber stain the majority of glassware item in this catalog. As well as personalize each glassware with your lab name, project number or any designation up to 12 letters, digits or spaces in length. The cost for this service depends upon the size or the value of your order.

NOTE: Because of their configuration or low price, some items such as, disposable culture tubes and Pasteur pipettes are impractical to personalize.

PLEASE NOTE: Please be sure to specify personalization carefully. We cannot accept returns or issue credit on personalized glassware.

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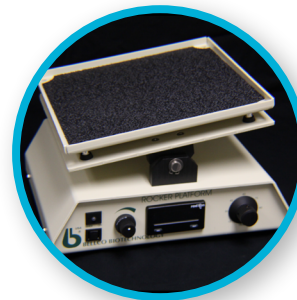
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FLASKS

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SPINNER FLASKS

MICRO-CARRIER SPINNER FLASK

Promote optimal growth of suspension and micro-carrier cultures. Impeller height adjusts through compression fitting in cap. Indented bottom up to 1L prevents accumulation of micro-carrier beads under impeller.

Item Number	Description	Size	Case Qty
1965-00100	Complete	100mL	1
1965-00250	Complete	250mL	1
1965-00500	Complete	500mL	1
1965-02500	Complete	500mL	1
1965-01000	Complete	1L	1
1965-03000	Complete	3L	1
1965-06000	Complete	6L	1
1965-08000	Complete	8L	1
1965-15000	Complete	15L	1
1965-36000	Complete	36L	1
1965-10100	Flask Only	100mL	1
1965-10250	Flask Only	250mL	1
1965-10500	Flask Only	500mL	1
1965-20500	Flask Only	500mL	1
1965-11000	Flask Only	1L	1
1965-13000	Flask Only	3L	1
1965-16000	Flask Only	6L	1
1965-18000	Flask Only	8L	1
1965-11500	Flask Only	15L	1
1965-13600	Flask Only	36L	1

1965-02500



1965-10100



MICRO-CARRIER IMPELLER ASSEMBLY

Promote optimal growth of suspension and micro-carrier cultures. Impeller height adjusts through compression fitting in cap. Indented bottom up to 1L prevents accumulation of micro-carrier beads under impeller.

Item Number	Description	Size	Case Qty
1965-30100	Impeller Assembly	100mL & 250mL	1
1965-30500	Impeller Assembly	500mL	1
1965-31000	Impeller Assembly	1L & 3L	1
1965-38000	Impeller Assembly	6L & 8L	1
1965-31500	Impeller Assembly	15 & 36L	1

IMPELLER ASSEMBLY

Glass shaft impeller assembly for 1967-style hanging bar spinner flasks. Consists of PTFE, magnet holder, and PTFE coated magnet.

Item Number	Description	Size	Case Qty
1967-30025	Impeller Assembly	25mL	1
1967-30050	Impeller Assembly	50-500mL	1
1967-31000	Impeller Assembly	1-3L	1

1965-30100



1967-30025



SPINNER FLASKS

MICRO- CARRIER SPINNER FLASK

Requires circulating water bath or chiller unit. 50ml through 3L-3/8" tubing 6-8L 1/2" tubing for hose connections.

Item Number	Description	Size	Case Qty
1965-50050	Complete	50mL	1
1965-50100	Complete	100mL	1
1965-50250	Complete	250mL	1
1965-50500	Complete	500mL	1
1965-51000	Complete	1L	1
1965-53000	Complete	3L	1
1965-56000	Complete	6L	1
1965-58000	Complete	8L	1
1965-50051	Flask Only	50mL	1
1965-50101	Flask Only	100mL	1
1965-50251	Flask Only	250mL	1
1965-50501	Flask Only	500mL	1
1965-51100	Flask Only	1L	1
1965-53001	Flask Only	3L	1
1965-56001	Flask Only	6L	1
1965-58001	Flask Only	8L	1

SPINNER FLASK STANDARD

Internal impeller decreases risk of contamination through cap. Adjustable shaft aligns paddle with bottom of flask. Large paddle promotes increased oxygenation with low shear.

Item Number	Description	Size	Case Qty
1965-61001	Complete	100mL	1
1965-61002	Complete	250mL	1
1965-61005	Complete	500mL	1
1965-61015	Complete	500mL	1
1965-61010	Complete	1L	1
1965-61030	Complete	3L	1
1965-61060	Complete	6L	1
1965-61080	Complete	8L	1
1965-61150	Complete	15L	1
1965-61360	Complete	36L	1

1965-50500



WATER JACKETED SPINNER FLASK

Internal impeller decreases risk of contamination through cap. Adjustable shaft aligns paddle with bottom of flask. Large paddle promotes increased oxygenation with low shear.

Item Number	Description	Size	Case Qty
1965-51501	Complete	15L	1
1965-52001	Complete	20L	1
1965-52501	Complete	25L	1
1965-55001	Complete	50L	1
1965-62001	Complete	100mL	1
1965-62002	Complete	250mL	1
1965-62005	Complete	500mL	1
1965-62010	Complete	1L	1
1965-62030	Complete	3L	1
1965-62060	Complete	6L	1

1965-61015



1965-62060



SPINNER FLASKS

INTERNAL OVERHEAD BEARING IMPELLER WITH CAP

Stainless steel shaft design prevents cell damage and minimizes magnetic decoupling. Sealed internal assembly requires less incubator space. For use of Bellco series 1965- standard and water jacketed spinner flasks. 3L & up include adjustable paddle blades.



1965-60001

Item Number	Description	Size	Case Qty
1965-60001	Cap Assembly	100-250mL	1
1965-60015	Cap Assembly	500mL	1
1965-60005	Cap Assembly	500mL	1
1965-60010	Cap Assembly	1L	1
1965-60030	Cap Assembly	3L	1
1965-60060	Cap Assembly	6L	1
1965-60080	Cap Assembly	8L	1
1965-60150	Cap Assembly	15L	1
1965-60360	Cap Assembly	36L	1

BELL-FLO SPINNER FLASK

Bottom indent & three vertical baffles provide optimal mixing. Unique PTFE paddle design promotes culture aeration. Rugged stainless steel/PTFE internal bearing assemblies.



1965-80575

Item Number	Description	Size	Case Qty
1965-80105	Complete	100mL	1
1965-80255	Complete	250mL	1
1965-80575	Complete	500mL	1
1965-80515	Complete	500mL	1
1965-81005	Complete	1L	1
1965-83005	Complete	3L	1
1965-80100	Flask Only	100mL	1
1965-80250	Flask Only	250mL	1
1965-80570	Flask Only	500mL	1
1965-80510	Flask Only	500mL	1
1965-81000	Flask Only	1L	1
1965-83000	Flask Only	3L	1

BELL-FLO SPINNER FLASK IOB IMPELLER ASSEMBLY

Unique PTFE paddle design promotes culture aeration. Rugged stainless steel/PTFE internal bearing assemblies.

Item Number	Size	Case Qty
1965-80101	100mL	1
1965-80251	250mL	1
1965-80571	500mL	1
1965-80511	500mL	1
1965-81001	1L	1
1965-83001	3L	1



1965-80571

GLASS BALL IMPELLER

Glass ball houses a magnet for gentle agitation of micro-carrier beads.

Item Number	Description	Size	Case Qty
1965-95010	Impeller Assembly	Only 100mL	1
1965-95025	Impeller Assembly	Only 250mL	1
1965-95050	Impeller Assembly	Only 500mL	1
1965-95100	Impeller Assembly	Only 1L	1
1965-95300	Impeller Assembly	Only 3L	1
1965-95600	Impeller Assembly	Only 6L – 8L	1

MICRO-CARRIER CAP ASSEMBLY

Polypropylene screw cap with silicone gasket, pouring ring and compression fitting.

Item Number	Description	Size	Case Qty
1965-90070	Cap Assembly	Micro-Carrier	1
1965-90100	Cap Assembly	Micro-Carrier	1
1965-99100	Cap Assembly	Micro-Carrier	1

1965-90070

1965-90070



SPINNER FLASKS

GLASS BALL SPINNER FLASK

Specially formed bottom indent prevents accumulation under impeller. Glass ball houses a magnet for gentle agitation of micro-carrier beads.

1965-92005



Item Number	Description	Size	Case Qty
1965-92001	Complete	100mL	1
1965-92002	Complete	Flask 250mL	1
1965-92005	Complete	Flask 500mL	1
1965-92010	Complete	Flask 1L	1
1965-92030	Complete	Flask 3L	1
1965-92060	Complete	Flask 6L	1
1965-92080	Complete	Flask 8L	1
1965-94010	Flask Only	Flask 100mL	1
1965-94025	Flask Only	Flask 250mL	1
1965-94050	Flask Only	Flask 500mL	1
1965-94100	Flask Only	Flask 1L	1
1965-94300	Flask Only	Flask 3L	1
1965-94600	Flask Only	Flask 6L	1
1965-94800	Flask Only	Flask 8L	1

GLASS IMPELLER SHAFT

Type 1 Class A Borosilicate Glass

Item Number	Description	Size	Case Qty
1969-70100	Glass Shaft	25-50mL	1

MICRO-CARRIER GLASS SHAFT ASSEMBLY

Promote optimal growth of suspension and micro-carrier cultures. Impeller height adjusts through compression fitting in cap. Indented bottom up to 1L prevents accumulation of micro-carrier beads under impeller. Type 1 Class A Borosilicate Glass.

1969-71000



1969-70100



ADJUSTABLE HANGING BAR SPINNER FLASK WITHOUT BOTTOM DIMPLE

1967-00025



PTFE impeller assembly rides on glass bearing for friction free operation. 25 & 50mL have black phenolic rubber-lined center and sidearm caps. 100mL-300mL have polypropylene caps, silicone gasket and pouring rings accumulation of micro-carrier beads under impeller.

Item Number	Description	Size	Case Qty
1967-00025	Complete	25mL	1
1967-00050	Complete	50mL	1
1967-00100	Complete	100mL	1
1967-00250	Complete	250mL	1
1967-00500	Complete	500mL	1
1967-01000	Complete	1L	1
1967-03000	Complete	3L	1
1967-10025	Flask Only	25mL	1
1967-10050	Flask Only	50mL	1
1967-10100	Flask Only	100mL	1
1967-10250	Flask Only	250mL	1
1967-10500	Flask Only	500mL	1
1967-11000	Flask Only	1L	1
1967-13000	Flask Only	3L	1

Item Number	Description	Size	Case Qty
1965-78000	Glass Shaft	6-8L	1
1965-71500	Glass Shaft	15-36L	1
1969-70250	Glass Shaft	100-250mL	1
1969-70500	Glass Shaft	500mL	1
1969-71000	Glass Shaft	1L	1
1969-73000	Glass Shaft	3L	1



FLASKS

Shake Flask with 3 Extra Deep Side Baffles & Break Resistant Lip	10
Erlenmeyer Flask Narrow Mouth	10
Delong Culture Flask with Stainless Steel Closure	11
Delong Culture Flask without Closure	11
Erlenmeyer Flask with Break Resistant Lip	12
Erlenmeyer Flask with Phenolic Rubber Lined Screw Cap	13
Erlenmeyer Flask with GI45 Linerless Polypropylene Screw Cap & Pouring Ring	14
Volumetric Flask Clear Tc & Amber Stained Tc	14
Fernbach Flask with GI45 Polypropylene Membrane Cap & Pouring Ring	15
Fernbach Flask without Baffles	15
Fernbach Flask with 3 Sided Baffles & Break Resistant Lip	15
Fernbach Flask with 3 Sided Baffles & GI45 Polypropylene Linerless Cap	15
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FLASKS

SHAKE FLASK WITH 3 EXTRA DEEP SIDE BAFFLES & BREAK RESISTANT LIP

Borosilicate Glass Type 1, Class A.
For Bellco Orbital Shakers and Flask Accessory Trays.

Item Number	Description	Size	Case Qty
2542-00250	Shake Flask	250mL	12
2542-00300	Shake Flask	300mL	12
2542-00500	Shake Flask	500mL	12
2542-01000	Shake Flask	1L	6
2542-02000	Shake Flask	2L	3

2542-00250

2542-00300

2542-00500

2542-01000

2542-02000



ERLENMEYER FLASK NARROW MOUTH

Ideal for laboratory use. Graduated to a polypropylene approximate volumes.

Item Number	Description	Size	Case Qty
2505-00125	Erlenmeyer Flask	125mL	12
2505-00250	Erlenmeyer Flask	250mL	12
2505-00500	Erlenmeyer Flask	500mL	6
2505-01000	Erlenmeyer Flask	1000mL	6

2505-00125

2505-00250

2505-00500



FLASKS

DELONG CULTURE FLASK WITH STAINLESS STEEL CLOSURE

Delong® culture flask with stainless steel closure. Ideal for growing, storing and mixing of aerobic and anaerobic cultures. Borosilicate Glass Type 1, Class A.

Item Number	Description	Product	Case Qty
2510-00025	Complete	25mL	24
2510-00050	Complete	50mL	24
2510-00125	Complete	125mL	12
2510-00250	Complete	250mL	12
2510-00300	Complete	300mL	12
2510-00500	Complete	500mL	12
2510-01000	Complete	1000mL	6
2510-02000	Complete	2000mL	3
2510-03000	Complete	3000mL	3
2510-04000	Complete	4000mL	3
2510-06000	Complete	6000mL	3

DELONG CULTURE FLASK WITHOUT CLOSURE

Borosilicate Glass Type 1, Class A Graduated to a Polypropylene approximate volumes stainless steel (2005-series) or kap-uts (2007-series) closures sold separately

Item Number	Description	Size	Case Qty
2511-00025	DeLong Culture Flask	25mL	24
2511-00050	DeLong Culture Flask	50ml	24
2511-00125	DeLong Culture Flask	125mL	12
2511-00250	DeLong Culture Flask	250mL	12
2511-00300	DeLong Culture Flask	300mL	12
2511-00500	DeLong Culture Flask	500mL	12
2511-01000	DeLong Culture Flask	1000mL	6
2511-02000	DeLong Culture Flask	200mL	3
2511-04000	DeLong Culture Flask	4000mL	3
2511-06000	DeLong Culture Flask	6000mL	3

2510-00125



2510-00250



2510-00300



2510-00500



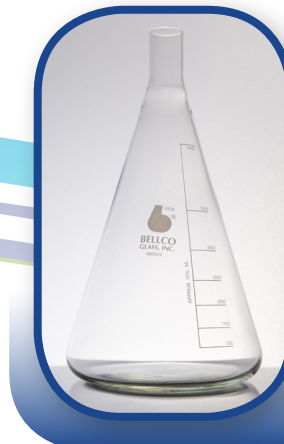
2511-01000



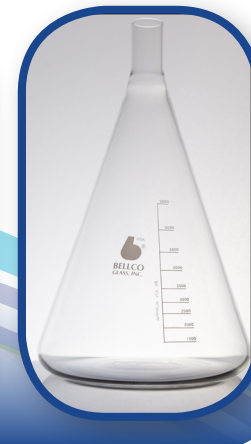
2511-02000



2511-04000



2511-06000



FLASKS

ERLENMEYER FLASK WITH BREAK RESISTANT LIP

Ideal for media preparation, storage and dispensing. Narrow mouth with break-resistant lip that resist chipping. Graduated to polypropylene approximate volumes.

Item Number	Description	Size	Case Qty
2504-00025	Erlenmeyer Flask	25mL	24
2504-00050	Erlenmeyer Flask	50mL	24
2504-00125	Erlenmeyer Flask	125mL	12
2504-00250	Erlenmeyer Flask	250mL	12
2504-00300	Erlenmeyer Flask	300mL	12
2504-00500	Erlenmeyer Flask	500mL	12
2504-01000	Erlenmeyer Flask	1000mL	6
2504-02000	Erlenmeyer Flask	2000mL	3
2504-03000	Erlenmeyer Flask	3000mL	3
2504-04000	Erlenmeyer Flask	4000mL	3
2504-06000	Erlenmeyer Flask	6000mL	3

2504-00025



2504-00125



2504-00250



2504-00300



2504-01000



2504-02000



2504-03000



2504-04000



2504-06000



FLASKS

ERLENMEYER FLASK WITH PHENOLIC RUBBER LINED SCREW CAP

Ideal for media preparation, storage and dispensing. Narrow mouth with break-resistant lip that resist chipping. Graduated to polypropylene approximate volumes.

Item Number	Description	Case Qty
2514-00025	Erlenmeyer Flask With Cap	24
2514-00050	Erlenmeyer Flask With Cap	24
2514-00125	Erlenmeyer Flask With Cap	12
2514-00250	Erlenmeyer Flask With Cap	12
2514-00300	Erlenmeyer Flask With Cap	12
2514-00500	Erlenmeyer Flask With Cap	12
2514-01000	Erlenmeyer Flask With Cap	6
2514-02000	Erlenmeyer Flask With Cap	3
2514-03000	Erlenmeyer Flask With Cap	3
2514-04000	Erlenmeyer Flask With Cap	3
2514-06000	Erlenmeyer Flask With Cap	3

2514-00025



2514-00050



2514-00125



2514-00500



2514-01000



2514-02000



2514-03000



2514-04000



2514-06000



FLASKS

ERLENMEYER FLASK WITH GL45 LINERLESS POLYPROPYLENE SCREW CAP & POURING RING

Manufactured from Type 1, Class A Borosilicate and ideal for all culture and media preparation/storage purposes. GL45 blue polypropylene linerless screw caps and pouring rings and graduated to polypropylene approximate volumes.

Item Number	Description	Size	Case Qty
2515-00250	Erlenmeyer Flask	250mL	12
2515-00500	Erlenmeyer Flask	500mL	12
2515-01000	Erlenmeyer Flask	1000mL	6
2515-02000	Erlenmeyer Flask	2000mL	3
2515-04000	Erlenmeyer Flask	4000mL	1
2515-06000	Erlenmeyer Flask	6000mL	1

2515-00250



2515-00500



2515-01000



2515-02000



2515-04000



VOLUMETRIC FLASK CLEAR TC & AMBER STAINED TC

MEET Astm E288 specifications Borosilicate Glass, Type 1, Class A permanent graduation line & marking area.

Item Number	Description	Size	Case Qty
2525-00010	Clear Flask	10mL	6
2525-00025	Clear Flask	25mL	6
2525-00050	Clear Flask	50mL	4
2525-00100	Clear Flask	100mL	4
2525-00200	Clear Flask	200mL	4
2525-00250	Clear Flask	250mL	4
2525-00500	Clear Flask	500mL	2
2525-01000	Clear Flask	1L	2
2525-02000	Clear Flask	2L	2
2526-00010	Amber Flask	10mL	6
2526-00025	Amber Flask	25mL	6
2526-00050	Amber Flask	50mL	4
2526-00100	Amber Flask	100mL	4
2526-00200	Amber Flask	200mL	4

2525-00050



2552-18000



FERNBACH FLASK WITH GL45 POLYPROPYLENE MEMBRANE CAP & POURING RING

Type 1 Class A Borosilicate Glass. 3 sided baffles positioned at 120 degree and 3 bottom baffles offset from the side baffles. Membrane cap has 0.2u PTFE membrane and can be tightened during autoclaving.

Item Number	Description	Size	Case Qty
2552-18000	Fernbach Flask	1800mL	1
2552-28000	Fernbach Flask	2800mL	1
2552-01803	Fernbach Flask	1800mL	1
2552-02803	Fernbach Flask	2800mL	1
2552-62180	Fernbach Flask	1800mL	1
2552-62280	Fernbach Flask	2800mL	1

2550-01800



FERNBACH FLASK WITHOUT BAFFLES

Flask EZTop closure with C-Flex tubing assembly and 0.2u PTFE membrane filter. Ideal for cell culture, sample storage and mixing.

Item Number	Description	Size	Case Qty
2550-01800	Fernbach Flask	1800mL	3
2550-02800	Fernbach Flask	2800mL	3

2551-01800



FERNBACH FLASK WITH 3 SIDED BAFFLES & BREAK RESISTANT LIP

Flask EZTop closure with C-Flex tubing assembly and 0.2u PTFE membrane filter. Ideal for cell culture, sample storage and mixing.

Item Number	Description	Size	Case Qty
2551-01800	Fernbach Flask	1800mL	3
2551-02800	Fernbach Flask	2800mL	3

2552-01800



FERNBACH FLASK WITH 3 SIDED BAFFLES & GL45 POLYPROPYLENE LINERLESS CAP

Item Number	Description	Size	Case Qty
2552-01800	Fernbach Flask	1800mL	1
2552-02800	Fernbach Flask	2800mL	1
2552-02833	Fernbach Flask	2800mL	1

FLASKS

2554-01800



FERNBACH FLASK WITH 3 BOTTOM BAFFLES & 38MM DELONG NECK

Manufactured from Type 1 Class A Borosilicate Glass and designed for culturing organisms requiring a large surface area-to-volume ratio. Flask features a 38mm Delong® style neck and can be used with a 38mm stainless steel closure 2005-00038 (sold separately).

Item Number	Description	Size	Case Qty
2554-01800	Fernbach Flask	1800mL	3
2554-02800	Fernbach Flask	2800mL	3
2554-02833	Fernbach Flask	2800mL	3

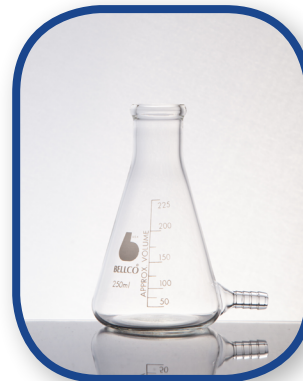
MEDIA STORAGE & DISPENSING FLASK WITH BREAK RESISTANT LIP

Bottom hose connection is graduated for a polypropylene approximate volumes & the heavy duty break resistant neck provides an excellent fit for rubber stoppers. All flasks are manufactured from Type 1 Class A Borosilicate Glass. Silicone tubing I.D. For hose connection on sizes 250mL to 2000mL is 3/8"; 4000mL & 6000mL is 1/2".

Note: Not for vacuum a polypropylene lications.

Item Number	Description	Size	Case Qty
2530-00250	Media Dispensing Flask	250mL	6
2530-00500	Media Dispensing Flask	500mL	6
2530-01000	Media Dispensing Flask	1L	6
2530-02000	Media Dispensing Flask	2L	3
2530-04000	Media Dispensing Flask	4L	3
2530-06000	Media Dispensing Flask	6L	2

2530-00250



2530-00500



2530-01000



2530-02000



2530-04000



2530-06000



FLASKS

2574-12133



NEPHELO CULTURE FLASK WITH CLEANOUT PORT & 38MM CAP

Manufactured From Type 1 Class A Borosilicate Glass with cleanout port and depressed sidearm. Black phenolic rubber lined 38-415 center cap and 18-415 sidearm cap.

Item Number	Description	Size	Case Qty
2574-12133	Nephelo Flask	300mL	4
2574-14133	Nephelo Flask	300mL	4
2574-19133	Nephelo Flask	300mL	4
2574-12135	Nephelo Flask	500mL	4
2574-14135	Nephelo Flask	500mL	4
2574-19135	Nephelo Flask	500mL	4
2574-12131	Nephelo Flask	1L	4
2574-14131	Nephelo Flask	1L	4
2574-19131	Nephelo Flask	1L	4

2571-14130



NEPHELO CULTURE FLASK WITH 25MM STAINLESS STEEL CLOSURE

Manufactured from Type 1 Class A Borosilicate with Delong® neck and 25 mm stainless steel closure. Ideal for growing, storing and mixing of aerobic and anaerobic cultures.

Item Number	Description	Size	Case Qty
2571-14130	Nephelo Flask	125mL	4
2571-14133	Nephelo Flask	300mL	4

NEPHELO FLASK WITH 3 BAFFLE & CLEAN-OUT PORT & 38MM CAP

Manufactured from Type 1 Class A Borosilicate Glass with cleanout port and depressed sidearm. Flask is 38-415 black phenolic rubber lined cap and 18-415 sidearm cap. Baffles increase oxygenation of culture.

Item Number	Description	Size	Case Qty
2581-14133	Nephelo Flask	300mL	4
2581-19133	Nephelo Flask	300mL	4
2581-14135	Nephelo Flask	300mL	4
2581-19135	Nephelo Flask	300mL	4

2581-14133



FLASKS

NEPHELO FLASK WITH 3 BOTTOM BAFFLES & 25MM STAINLESS STEEL CLOSURE

Manufactured From Type 1 Class A Borosilicate Glass With 3 Bottom Baffles And Delong® Neck. Flask includes a 25mm Bellco stainless steel closure. Ideal for growing, storing and mixing of aerobic and anaerobic cultures.

Item Number	Description	Size	Case Qty
2578-12133	Nephelo Flask	300mL	4
2578-14133	Nephelo Flask	300mL	4
2578-19133	Nephelo Flask	300mL	4

2578-12133



SHAKE FLASK WITH 3 SIDE BAFFLES DELONG STYLE NECK

Ideal for preliminary fermentation and bacterial growth studies.

- Delong® style neck and three side baffles equally spaced
- Borosilicate Glass Type 1, Class A
- Closures Sold Separately

Item Number	Description	Size	Case Qty
2540-00050	Shake Flask	50mL	12
2540-00125	Shake Flask	125mL	12
2540-00250	Shake Flask	250mL	12
2540-00300	Shake Flask	300mL	12
2540-00500	Shake Flask	500mL	12
2540-01000	Shake Flask	1L	6
2540-02000	Shake Flask	2L	3

2540-00250



2540-00500



2540-01000



2540-02000



FLASKS

SHAKE FLASK WITH 3 SIDE BAFFLES & BREAK RESISTANT LIP

Manufactured from Type 1 Class A Borosilicate Glass with rigidly controlled baffle angles and depths to promote optimal oxygen transfer while reducing vortex formation. Flask has break resistant lip to resist chipping and is designed for use with orbital shakers.

Item Number	Description	Size	Case Qty
2541-00125	Shake Flask	125mL	12
2541-00250	Shake Flask	250mL	12
2541-01000	Shake Flask	1L	6
2541-02000	Shake Flask	2L	3

2541-00125



2541-00250



2541-01000



2541-02000



TRYPsinIZING FLASK WITH 3 DEEP SIDE BAFFLES & 15-415 SIDEARM

Break Resistant Trypsinizing flask, graduated with 16mm sidearm cap, designed with deep side baffles for optimal agitation, promotes enzyme digestion of tissue fragments and homogenates into cell suspensions. Borosilicate Glass, Type 1, Class A, includes rubber lined, black phenolic screw caps, integral dam contains non-trypsinized tissue during decanting acid etched & filled graduations.

Item Number	Description	Size	Case Qty
1989-00125	Trypsinizing Flask	125mL	3
1989-00250	Trypsinizing Flask	250mL	3
1989-00500	Trypsinizing Flask	500mL	3
1992-00050	Trypsinizing Flask	50mL	3
1992-00125	Trypsinizing Flask	125mL	3
1992-00250	Trypsinizing Flask	250mL	3
1992-00500	Trypsinizing Flask	500mL	3
1992-01000	Trypsinizing Flask	1L	2
1992-02000	Trypsinizing Flask	2L	2
1992-04000	Trypsinizing Flask	4L	2

1989-00125



1989-00250



1989-00500



FLASKS

SHAKE FLASK WITH 3 EXTRA DEEP SIDE BAFFLES

Shake flasks are the basic tool for growth studies of aerobic microbial cultures and have rigidly controlled baffle angles and depths to promote optimal oxygen transfer while reducing vortex formation. Designed for use with orbital shakers.

Item Number	Description	Size	Case Qty
2543-00050	Shake Flask	50mL	12
2543-00125	Shake Flask	125mL	12
2543-00250	Shake Flask	250mL	12
2543-00300	Shake Flask	300mL	12
2543-00500	Shake Flask	500mL	12
2543-01000	Shake Flask	1L	6
2543-02000	Shake Flask	2L	3
2543-03000	Shake Flask	3L	3
2543-04000	Shake Flask	4L	3
2543-60250	Shake Flask	250mL	12
2543-60500	Shake Flask	500mL	12
2543-61000	Shake Flask	1L	6
2543-62000	Shake Flask	2L	3
2543-63000	Shake Flask	3L	3
2543-64000	Shake Flask	4L	3

2543-00050



2543-00125



2543-00250



2543-00300



2543-00500



2543-01000



2543-02000



2543-03000



2543-04000



FLASKS

SHAKE FLASK WITH 4 BOTTOM Baffles & CONSTRICTION

- Delong® style neck
- Four extra deep bottom baffles
- Borosilicate Glass, Type 1, Class A

Item Number	Description	Size	Case Qty
2547-00250	Shake Flask	250mL	12
2547-00500	Shake Flask	500mL	12
2547-01000	Shake Flask	1L	6

2547-00250



2547-00500



2547-01000



SHAKE FLASK WITH 3 SIDE & BOTTOM Baffles WITH MEMBRANE CAP & POURING RING

Type 1 Class A Borosilicate Glass, 3 side baffles positioned at 120 degree and 3 bottom baffles offset from side baffles, GL45 polypropylene membrane. Cap has a sealed in 0.2µ PTFE membrane. Cap can be tightened during autoclaving.

Item Number	Description	Size	Case Qty
2545-00250	Shake Flask	250mL	12
2545-00500	Shake Flask	500mL	12
2545-01000	Shake Flask	1L	6
2545-02000	Shake Flask	2L	3
5637-00046	Caps	Membrane Cap	5

2545-00250



2545-00500



2545-01000



2545-02000



5637-00046



1965-97005



BIO-PROBE FLASK

BioProbe Spinner flask is ideal for small working volumes and allows the use of probes such as pH and DO probes.

The 32mm low sidearms allow for this insertion of probes. 32mm compression fittings, probes and port assemblies are sold separately.

Item Number	Description	Size	Case Qty
1965-97001	Vessel-Complete	1L	1
1965-97003	Vessel-Complete	3L	1
1965-97005	Vessel-Complete	500mL	1
1965-97050	Vessel	500mL	1
1965-97100	Vessel	1L	1
1965-97300	Vessel	3L	1

IMPELLER ASSEMBLIES

Item Number	Description	Size	Case Qty
1969-70100	Type 1 a Borosilicate glass rod impeller shaft for 25-100ml ahb spinner flasks	Glass Impeller Shaft,25-100mL	1
1969-70238	Type 1 a Borosilicate glass rod impeller shaft for 3-liter flask.	Glass Shaft,3L 238mm	1
1969-70250	Glass mc impeller shaft7mm od x 155mm longType 1 Class A boro for 100-250ml spinners	Glass Impeller Shaft,100-250mL	1
1969-70500	Glass mc impeller shaft7mm od x 190mm longType 1 Class A boro for 500ml spinners	Glass Impeller Shaft, 500mL	1
1969-71000	Type 1 Class A boro glass 7mm od x 230mm long for mc impeller assemblies	Glass Impeller Shaft, 1L	1
1969-73000	Type 1 Class A boro glass 7mm od x 300mm long Type 1 Class A boro for 3l spinners	Glass Impeller Shaft, 3L Micro-Carrier	1

1969-70250





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BELCO PIPETTES

Bellco manufactures all precision pipettes from Type 1 Class A Borosilicate Glass. All Bellco pipettes feature tempered tips and permanent silk screened graduations to withstand repeated usage and alkali washings.

- Shorter length facilitates use under biological hoods.

SEROLOGICAL PIPETTE WITH COTTON PLUGGING TOP MIXED BULK-PAK

- Three sizes in one case 75 pipettes for each size (supplied with cotton)

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1200-01510	0.02, 0.04, 0.06	350	Yellow, Blue Orange	1mL 5mL and 10mL	250

SEROLOGICAL PIPETTE WITH COTTON PLUGGING TOP BULK-PAK

- Plain top promotes rapid, even flow.
- Calibrated to tip -tempered tip; to deliver; blow out.

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1200-01001	0.02	350	Yellow	1x.01mL	250
1200-02010	0.2	350	Green	2x.1mL	250
1200-05010	0.04	350	Blue	5x.1mL	250
1200-10010	0.06	350	Orange	10x.1mL	250
1200-25010	0.1	400	White	25x.1mL	250

1200-01001



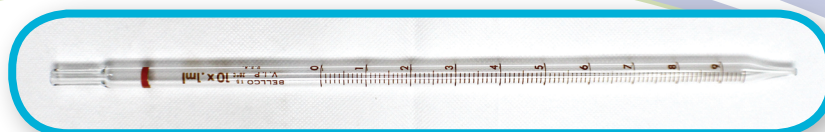
SEROLOGICAL PIPETTE PLAIN TOP BULK-PAK

Serological pipette, bulk-pak, td.

- Plain top promotes rapid, even flow.
- Calibrated to tip -tempered tip; to deliver; blow out.

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1202-00201	0.008	325	Black	.2x.01mL	250
1202-01001	0.02	350	Yellow	1x.01mL	250
1202-02010	0.02	350	Green	2x.1mL	250
1202-05010	0.04	350	Blue	5x.1mL	250
1202-10010	0.06	350	Orange	10x.1mL	250
1202-25010	0.1	400	White	25x.1mL	250

1202-10010



SEROLOGICAL PLAIN TOP "SHORTIE" PIPETTE BULK-PAK

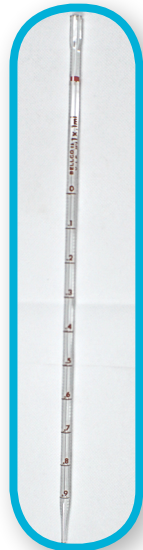
- Shorter length facilitates use under biological hoods.
- Plain top promotes rapid, even flow. (use rubber bulb to fill).

Item Number	Description	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1204-02010	-	0.025	160	Green	2x.1mL	150
1204-05010	-	0.08	160	Blue	5x.1mL	150
1206-01010	Cotton Plugging Tip	0.02	175	Red	1x.1mL	150
1206-02010	Cotton Plugging Tip	0.025	175	Green	2x.1mL	150
1206-05010	Cotton Plugging Tip	0.08	175	Blue	5x0.1mL	150

SEROLOGICAL PIPETTE WITH COTTON PLUGGING TOP

- Constricted top for cotton plugging. Supplied with cotton.

1210-01010



Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1210-00201	0.008	330	Black	.2x.01mL	18
1210-01001	0.02	350	Yellow	1x.01mL	18
1210-01010	0.02	350	Red	1x.1mL	18
1210-02001	0.02	350	White (2)	2x.01mL	18
1210-02010	0.02	350	Green	2x.1mL	18
1210-05010	0.04	350	Blue	5x.1mL	18
1210-10010	0.06	350	Orange	10x.1mL	18
1210-25010	0.1	400	White	25x.1mL	18
1210-50020	0.4	685	Red	50x.2mL	12

SEROLOGICAL PIPETTE PLAIN TOP

Serological pipette, TD -plain top promotes rapid, even flow.

- Calibrated to tip
- Tempered tip; to deliver; blow out

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1212-01001	0.02	350	Yellow	1x.01mL	18
1212-02010	0.02	350	Green	2x.1mL	18
1212-05010	0.04	350	Blue	5x.1mL	18
1212-10010	0.06	350	Orange	10x.1mL	18
1212-25010	0.1	400	White	25x.1mL	18

1212-10010



STAINLESS STEEL PIPETTE CANS WITH & WITHOUT SILICONE PAD

1217-22216



Heavy gauge rectangular construction for easy stacking and storage. These pipette cans can be sterilized by autoclave or dry heat. (do not exceed 400 degrees f). Includes silicone pad on the inside of top and bottom to protect pipette tips.

- Satin finish surface of entire can for convenient marking or coding.
- Silicone pads on inside of top and bottom protect pipette tips.
- Material: 304 stainless steel .031" thick

Item Number	Size	Case Qty
1217-00409	11 x 11 x 24cm	1
1217-11106	6 x 6 x 16cm	1
1217-11109	6 x 6 x 24cm	1
1217-11116	6 x 6 x 41cm	1
1217-22216	7 x 7 x 41cm	1

Without Silicone Pads

1217-90109	6 x 6 x 24cm	1
1217-90216	7 x 7 x 41cm	1
1217-90218	7 x 7 x 46cm	1

1224-05010



SEROLOGICAL PLAIN TOP "SHORTIE" PIPETTE

Plain top promotes rapid, even flow. (use rubber bulb to fill)

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1224-02010	0.025	160	Green	2x.1mL	18
1224-05010	0.08	160	Blue	5x.1mL	18

1226-25050



SEROLOGICAL "SHORTIE" PIPETTE WITH COTTON PLUGGING TOP

Constricted top for cotton plugging. (supplied without cotton)

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1226-01010	0.02	175	Red	1x.1 mL	18
1226-02010	0.025	175	Green	2x.1mL	18
1226-05010	0.08	175	Blue	5x.1mL	18
1226-25050	0.25	350	White	25x.5mL	18

LABWARE

LARGE ORIFICE SEROLOGICAL “SHORTIE” PIPETTE COTTON PLUG TOP

Serological “shortie” pipette w/cotton plugging top & large orifice, TD -3mm orifice for handling tissue homogenates and cell suspensions.

- Shorter length than standard pipettes for use under biological hoods
- Plain top promotes rapid, even flow (use rubber bulb to fill)

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1228-05010	0.14	175	Blue	.5x.1mL	18
1228-25050	0.25	225	White	25x.5mL	18

1228-05010



- Calibrated to tip
- Tempered tip; to deliver; blow out

LARGE ORIFICE SEROLOGICAL PIPETTE WITH COTTON PLUGGING TOP

Serological pipette with cotton plugging top and large orifice -3mm orifice for handling tissue homogenates, cell suspensions.

- Constricted top for cotton plugging. (supplied without cotton)
- Calibrated to tip

Item Number	Tolerance	OAL (mm)	Color Code	Size	Case Qty
1232-25010	0.1	400	White	25x.1mL	18
1232-50020	0.5	470	Red	50 x .2mL	12

1232-50020



- Tempered tip; to deliver; blow out.

PASTEUR PIPETTE NO CONSTRICTION

Straight tip with 1.5 to 2mm orifice.

Item Number	Body O.D (mm)	Body Length (in)	Tip Length (in)	Size	Case Qty
1271-40004	8	4	4	4x4in	288
1271-50003	8	5	3	5X4	288
1271-60002	8	6	2	6X3	288

1271-40004



PASTEUR PIPETTE BENT TIP

Bent tip with 1.5 to 2mm orifice.

Item Number	OAL (mm)	Body Length (in)	Tip Length (in)	Size	Case Qty
1273-40004	8	4	4	4x5	144
1273-50003	8	5	3	5x3	144
1273-60002	8	6	2	6x2	144

1273-40004



DISPOSABLE PASTEUR PIPETTE

Ideal for transfer of infectious materials, culture media and routine sampling.

Item Number	Description	OAL (mm)	Body Length (in)	Tip Length (in)	Case Qty
1277-10005	Borosilicate Glass	5.75	2.25	3.5	1000
1277-10009	Borosilicate Glass	9	5	4	1000
1277-20005	Flint Glass	5.75	2.25	3.5	1000
1277-20009	Flint Glass	9	5	4	1000
1278-10005	Cotton Plug Top Borosilicate Glass	5.75	2.25	3.5	1000
1278-10009	Cotton Plug Top Borosilicate Glass	9	5	4	1000
1278-20005	Cotton Plug Top Flint Glass	5.75	2.25	3.5	1000
1278-20009	Cotton Plug Top Flint Glass	9	5	4	1000

1277-10005



PIPETTE CANISTER CUSHION PTFE

Stabilizes pipette canister during use. And can be repeatedly sterilized using dry heat or steam heat.

- Completely non-toxic, lint free, permanently resilient.

1286-88815



Item Number	Size	Case Qty
1286-88815	38 mm	1
1286-88825	63mm	1

ROUND BOTTOM GLASS PIPETTE CANISTER

Canister Only

Silicone Pad (complete)

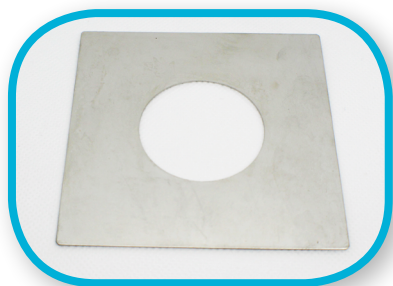
- Manufactured from type 1, Class A Borosilicate Glass.
- Components will withstand repeated dry or steam heat sterilization.
- Bottom pad prevents breakage of pipette tips. 38mm stainless steel closure.

1287-00135



Item Number	Description	Size	Case Qty
1287-00135	Canister Only	38x135mm	6
1287-00250	Canister Only	38x250mm	6
1287-00300	Canister Only	38x300mm	
1287-00430	Canister Only	38x430mm	
1287-38135	Canister Complete	38x135mm	6
1287-38250	Canister Complete	38x250mm	6
1287-38300	Canister Complete	38x300mm	6
1287-38430	Canister Complete	38x430mm	6

1288-11111



CAN MOUNTING PLATE

Mounting plate for pipette cans

- Stabilizes pipette canisters during use
- Stainless steel construction
- Use with 38mm OD glass pipette canisters dimensions: 90 x 90mm

Item Number	Size	Case Qty
1288-11111	90x90mm	6

FLAT BOTTOM GLASS PIPETTE CANISTER

Canister Only

Silicone Pad (complete)

- Manufactured from Borosilicate glass.
- All components will withstand repeated dry or steam heat sterilization.
- Bottom pad prevents chipping of pipette tips.

1290-00130



Item Number	Description	Size	Case Qty
1290-00130	Canister Only	38X130mm	6
1290-00250	Canister Only	38X250mm	6
1290-00300	Canister Only	38X300mm	6
1290-00430	Canister Only	38X430mm	6
1290-38130	Canister Complete	38X130mm	6
1290-38250	Canister Complete	38X250mm	6
1290-38300	Canister Complete	38X300mm	6
1290-38430	Canister Complete	38X430mm	6

1943-70000



COVER SLIP VAC

This handy little tool can be used to assist in handling cover slips. Small suction pick-up tool has a 1/4" diameter tip that is ideal for handling cover slips. The suction cup is clear for easy viewing of the cover slip being held.

Item Number	Description	Size	Case Qty
1943-70000	Coverslips	Cover Slip Vac	1

GLASS COVER SLIP

Ideal for neural tissue cell cultures and hard to attach cells. Specifically developed for fluorescence and confocal microscopy. Provides quality, reliability, and performance for all laboratory microscopy needs.

-#1 thickness (0.13 to 0.16)

1916-24050A

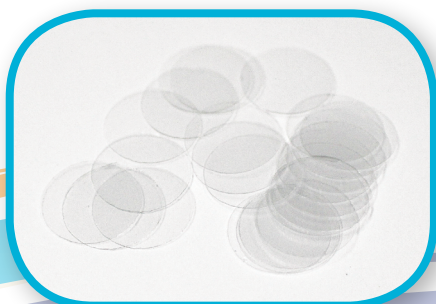


Item Number	Description	Size	Case Qty
1916-09009A	Cover Slip	9x9mm, #1 Thick	100
1916-09022A	Rectangular Cover Slip	9x22 mm #1 Thick	100
1916-09035A	Cover Slip	9x35mm, #1 Thk	100
1916-09050A	Rectangular Cover Slip	9x50mm #1 Thick	100
1916-10522A	Rectangular Cover Slip	10.5x22mm #1 Thick	100
1916-10535A	Rectangular Cover Slip	10.5x35mm #1 Thick	100
1916-10550A	Rectangular Cover Slip	10.5x50mm, #1 Thick	100
1916-12222A	Cover Slip	22x22mm, #1 Thk	100
1916-13054A	Rectangular Cover Slip	13x54mm #1 Thick	100
1916-24050A	Cover Slip	24x50mm, #1Thk	100
1916-25075	Cover Slip	25x75mm, #1 Thk	100
1943-00005	Round Cover Slip	5mm	100

ROUND COVER SLIPS GERMAN GLASS

Ideal for neural tissue cell cultures and hard to attach cells. Specially developed for fluorescence and confocal microscopy.

1943-10012A

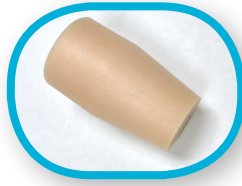


Item Number	Description	Size	Case Qty
1916-91012	Photo-Etched German Coverslip	12mm	25
1916-91025	Photo-Etched German Coverslip	25mm	25
1916-91818	Photo-Etched German Coverslip	18 x 18mm	25
1916-92525	Photo-Etched German Coverslip	23 x 23mm	25
1943-10012A	Round German Coverslip	12mm	100
1943-10015A	Round German Coverslip	15mm	100
1943-10025A	Round German Coverslip	25mm	100

LABWARE

SPONGE CLOSURE

1924-00032



The silicone sponge closure is suitable for cultivation of aerobic microorganisms. Can withstand heat up to 350 degree Celsius, if it lasts only for a short time so that the flame sterilization can be performed. Can be used the same way as a cotton plug for the cultivation growth of microbes.

Excellent chemical resistance and can be wash with hot water also with neutral detergents. Do to its hydrophobic property it prevents microbes from prilliferating on its surface even at high atmosphere moisture.

- Tapered silicone sponge with smooth exterior for tight seal
- Extra long for easy insertion and removal

Item Number	Size	Case Qty
1924-00032	32mm Tapered	25

- Fits 25mm culture tubes 32mm sidearms
- Air permeability easy handling high heat resistance

RUBBER STOPPER

1925-11110



Non-Toxic silicone rubber stopper closure.

Item Number	Description	Size	Case Qty
1925-00002	Stoppers	Rubber Stopper,#2	144
1925-11110	Stoppers	Rubber Stopper,#0	144
1925-22200	Stoppers	Rubber Stopper,#00	144
1927-11110	Stoppers	Rubber Stopper,#0	36

SYKES-MOORE CULTURE CHAMBER

1943-11111



Study cells by high magnification, phase optics, or time lapse. Cover Slips are separated by a silicone gasket to maintain internal seal. 2.83cm viewing area holds approximately 0.65-0.75mL. Made from brass. Wrench assembly is required and sold separately.

Item Number	Description	Size	Case Qty
1943-11111	Chamber Only	0.250" x 1.250"	1
1943-33315	Silicone Gasket	1" x 7/8" x 1/16"	6
1943-33325	Silicone Gasket	1" x 3/4" x 1/8"	6
1943-20002	Round Cover Slip #2 Thickness	25mm	100
1943-22115	Silicone Gasket	25mm	6
1943-55555	Holder	3" x 1 1/2" x 3/16"	1
1943-44444	Wrench	1 3/4" x 1 1/2" x 1/2"	1

PTFE STIRRING BAR

1975-00100



Magnetic stiring bars -excellent for mixing media and buffer solutions -ideal for procedures using all bellco magnetic stirrers -molded, seamless PTFE construction.

Item Number	Size	Case Qty
1975-00100	25.4mm	6
1975-00158	41.3mm	6
1975-00200	50.8mm	6
1975-00300	76.2mm	3
1975-00314	82.6mm	2

BELCO HOMOGENIZERS

CONICAL TISSUE HOMOGENIZER WITH GROUND GLASS TUBE & PESTLE

The conical tissue homogenizer is designed for use with homogenizing motors.

- Ideal for tissues such as muscle, heart and lung.
- The conical tissue homogenizer has a large area for most efficient grinding.
- The clearance between pestles is .004-.006.

1976-10020



Item Number	Case Qty
1976-10020	1
1976-10021	1
1976-10022	1
1976-10023	1
1976-10024	1
1976-10025	1

BIOVORTEXER MOTOR

Biovortexer motor is a lightweight, battery powered unit designed to be used with microcentrifuge tubes. Centrifugal pellets, precipitates, and other solids are completely dispersed in seconds by a combination of mechanical & vortex action. A new polypropylene stir rod is used with each sample. A practical alternative to conventional vortex mixer for mixing & dispersing samples, the Biovortexer is faster, less tedious, & safer.

Take the Biovortexer to the sample instead of the sample to the mixer. Disposable stirring rods are used to eliminate cross-contamination from sample to sample.

Item Number	Description	Case Qty
1980-50000	Biovortexer Motor Battery Powered	1

HOMOGENIZER DRIVE

Homogenizer drives are used as a source of motor for dis-aggregating tissue samples into individual cells. The drive motor can be set to a special rpm depending on the type of cell being used. The drives are typically bolted to an upright stand for support during the operation.

Our stand is for general purpose, however any lab stand would be appropriate. Stand is sold separately. High speed shaft: 4000rpm (26 in-lb torque) Low speed shaft: 333rpm (3.6 in-lb torque) Electronic motor controller, Switch for reversing pestle direction.

Item Number	Description	Size	Case Qty
1981-20115	115v/60Hz/2.5A	-	1
1981-20230	230v/50Hz/2.5A	-	1
1981-30000	Homogenizer Stand		1
1981-40000	Flexgrip chuck for 10mm pestle glass and stirrer rods	10mm	1
1981-50000	Flexgrip chuck for 6mm pestle glass and stirrer rods	6mm	1

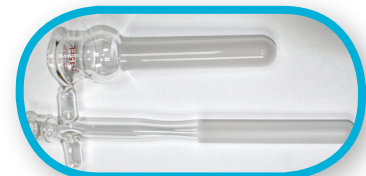
TENBROECK TISSUE HOMOGENIZER WITH GROUND GLASS TUBE & PESTLE

Hollow glass pestle allows addition of ice water for chilling samples during homogenization. All glass construction primarily for manual operation. Interior of the pestle is hollow allowing to reduce heat generated in the grinding process. It can be used with a laboratory stirrer at low speed if a rubber stopper is inserted in the top of the pestle.

A short steel rod (sold separately) completes the connection to the Jacobs chuck. The clearance between pestles is .004-.006.

Item Number	Description	Size	Case Qty
1982-10002	Stopper Number 00	2mL	1
1982-10007	Stopper Number 00	7mL	1
1982-10015	Stopper Number 1	15mL	1
1982-10040	Stopper Number 3	40mL	1

1982-10015



POTTER-ELVEHJEM TISSUE HOMOGENIZER, GROUND & UNGROUND GLASS TUBE & PESTLE

Ground Glass

- Clearance between pestle and tube is .004-.006.
- Suitable for connective tissue processing.

Unground

- Sizes 21-24 have radial serrations on lower portion of the pestle.
- Clearance between pestles and tubes is .004-.006.
- Suitable for softer tissues such as a brain and liver.

1983-10019



Item Number	Description	Case Qty
1983-10019	Ground Glass	1
1983-10021	Ground Glass	1
1983-10022	Ground Glass	1
1983-10023	Ground Glass	1
1983-10024	Ground Glass	1
1983-20018	Unground Glass	1
1983-20019	Unground Glass	1
1983-20020	-	1
1983-20021	-	1
1983-20020	Unground Glass	1
1983-20021	Unground Glass	1
1983-20022	Unground Glass	1
1983-20023	Unground Glass	1
1983-20024	Unground Glass	1

DOUNCE TISSUE HOMOGENIZER WITH GLASS TUBE & PESTLE

Designed for disruption of whole cells leaving cell nuclei undamaged.

- Two pestles supplied with each unit.
- Large clearance pestle A for initial sample processing.
- Small clearance pestle B completes homogenization.



1984-10002



Item Number	Size	Case Qty
1984-10002	60mm	1
1984-10007	125mm	1
1984-10015	157mm	1
1984-10040	215mm	1
1984-10100	232mm	1

COLLECTOR TISSUE SIEVE HOMOGENIZER AND MESH SCREENS

- Prepare cell suspensions and gel extraction of proteins.
- All stainless steel construction.
- Available with 85mL or 130mL pans.

1985-13000



Item Number	Description	Size	Case Qty
1985-85000	Collector Complete	85mL	1
1985-13000	Collector Complete	130mL	1
1985-18500	Collector Pan & Key Only	85mL	1
1985-11300	Collector Pan & Key Only	130mL	1
1985-28500	Collector Key Only	-	1
1985-11516	Glass Pestle Only	16mm	1
1985-00010	Screen Only	10mesh 1911	5
1985-00020	Screen Only	20mesh 861	5
1985-00030	Screen Only	30mesh 521	5
1985-00040	Screen Only	40mesh 381	5
1985-00050	Screen Only	50mesh 281	5
1985-00060	Screen Only	60mesh 231	5
1985-00080	Screen Only	80mesh 191	5
1985-00100	Screen Only	100mesh 141	5
1985-00150	Screen Only	150mesh 95	5
1985-00200	Screen Only	200mesh 74	5
1985-00300	Screen Only	300mesh 47	5
1985-00400	Screen Only	400mesh 39	5
1985-00500	Screen Only	500mesh 26	5

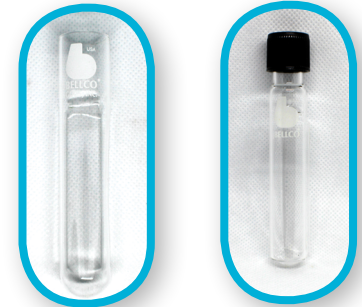
TUBES

LEIGHTON TUBES

Leighton culture tubes are useful for the study of pathogenic effects on viruses on cells. As well as sponge mixture studies. Use cover slips for preparing expectant tissue cultures with leighton culture tubes. Manufactured from Type 1 Class A Borosilicate Glass.

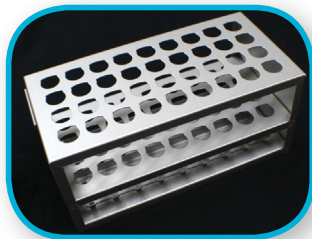
Short style leighton tubes have extra long working area yet short overall length that promotes convenient handling. Short neck allows easy entry and removal of cover slips.

1903-19095 1904-16095



Item Number	Description	Tube Size (mm)	Window Size (mm)	Cover Slip Size (mm)	Size	Case Qty
1903-19095	Plain Top Leighton Tube Short Style	19 x 95	14 x 55	13 x 27, 13 x 54	19 x 95mm	36
1906-16150	Plain Top Leighton Tube	16 x 150	11 x 37	13 x 27, 13 x 54	16 x 150mm	36
1908-16125	Short Style w/ Screw Cap	16 x 125	11 x 37	9 x 9, 9 x 22, 9 x 35	16 x 125mm	36
1904-16095	Short Style w/ Screw Cap	16 x 93	11 x 55	9 x 9, 9 x 22, 9 x 50	16x93mm	36
1904-19105	Short Style w/ Screw Cap	19 x 105	14 x 55	10.5 x 22, 10.5 x 35, 10.5 x 50	19 x 105mm	36

1917-00016



LEIGHTON TUBE RACK

Ideal for Leighton type tissue culture tubes. Hinged front of rack locks tubes into position.

Item Number	Size	Case Qty
1917-00016	125-150mm	1
1917-16000	83-903mm	1

ROUND BOTTOM PLAIN TOP CULTURE TUBE (DISPOSABLE)

Use with KAP-UTS Closures. Type 1 Class Borosilicate Glass.

2010-25150



Item Number	Size	Case Qty
2010-25100	25x100mm	144
2010-25150	25x150mm	144
2010-25200	25x200mm	144

PLAIN TOP CULTURE TUBE ROUND BOTTOM

Non-corrosive Borosilicate Glass to prevent etching, caused by alkaline cleaning detergents.

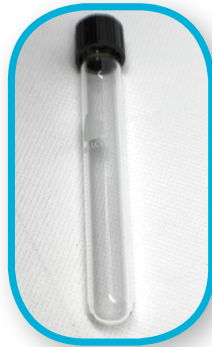
2011-13100



Item Number	Size	Case Qty
2011-10075	10x75mm	250
2011-13100	13x100mm	288
2011-16125	16x125mm	144
2011-18150	18x150mm	144
2011-25150	25x150mm	72
2111-38200	38x200mm	36

SCREW CAP CULTURE TUBE ROUND BOTTOM 16X150MM WITH BELLCO LOGO

Manufactured from Type 1 Class B Borosilicate Glass. Includes 13-415 black phenolic rubber lined screw cap. 2012-01310



Item Number	Description	Size	Case Qty
2012-01310	Bellco Logo	13X100mm	144
2012-13000	Plain - no logo or marking area on tube	13x100mm	1000
2012-13100	Bellco Logo	13x100mm	144
2012-01615	Bellco Logo	16X150mm	144
2012-06150	Bellco Logo	16X150mm	1000
2012-16000	Plain - no logo or marking area on tube	16X150mm	1000
2012-16150	Bellco Logo	16X150mm	144
2012-02150	Bellco Logo	20x150mm	500
2012-20000	Bellco Logo	20x150mm	500
2112-38200	Bellco Logo	38x200mm	36

2040-08029



FERMENTATION TUBE

Disposable gas fermentation tubes are inverted in bottom of larger tube for collection of fermentation gases.

Item Number	Size	Case Qty
2040-08029	8x29mm	144

HUNGATE TYPE ANAEROBIC CULTURE TUBE

The Hungate Anaerobic Culture Tube was developed for growing and maintaining anaerobic bacteria and culture conditions. Method of the Hungate utilizes syringe methods for anaerobic.

Technique:

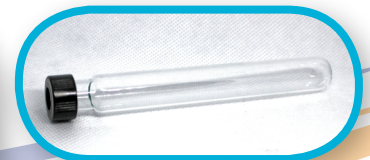
- Exclude oxygen by flushing the tube with the desired gas
- Add 4.5ml of pre-reduced anaerobic agar medium into tube
- Seal the tube with the Butyl rubber stopper and screw cap and autoclave
- Inoculate with a syringe
- Incubate in a water bath

Item Number	Description	Size	Case Qty
2047-16125	Hungate Tube Complete	16x125mm	250
2047-16000	Screw Cap Only	15mm	250
2047-11600	Septum Stopper	13mm	250
2047-00125	Hungate Tube Only	16x125mm	250

2047-11600



2047-00125

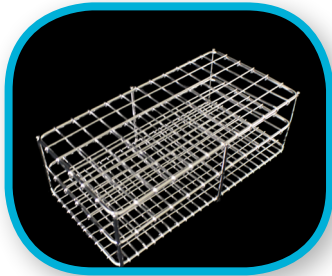


LABWARE

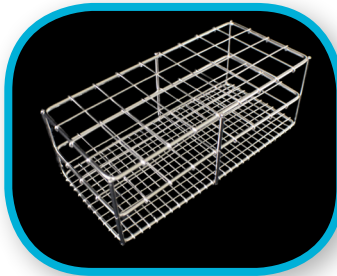
STAINLESS STEEL TUBE RACK

Will not rust or deteriorate in water baths or CO₂ atmospheres. Manufactured from 303 stainless steel with electropolish finish. Each opening rack 19/32.

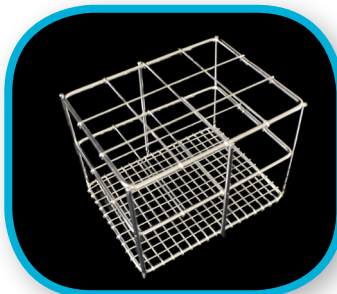
2027-16072



2027-25036



2027-38012



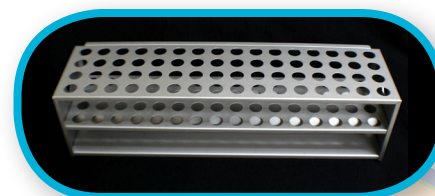
Item Number	Size	Case Qty
2027-13012	13mm-12P 3x4 Spacing	1
2027-13040	13mm-40P 4x10 Spacing	1
2027-13072	13mm-72P 6x12 Spacing	1
2027-13090	13mm-90P 6x15 Spacing	1
2027-16024	16mm-24P 4x6 Spacing	1
2027-16040	16mm-40P 4x10 Spacing	1
2027-16048	16mm-48P 4x12 Spacing	1
2027-16072	16mm-72P 6x12 Spacing	1
2027-16090	16mm-90P 6x15 Spacing	1
2027-16120	16mm-120P 10x12 Spacing	1
2027-16150	16mm-150P 6x25 Spacing	1
2027-18024	18mm-24P 4x6 Spacing	1
2027-18040	18mm-40P 4x10 Spacing	1
2027-18072	18mm-72P 6x12 Spacing	1
2027-20012	20-22mm-12P 3x4 Spacing	1
2027-20040	20-22mm-40P 4x10 Spacing	1
2027-20048	20-22mm-48P 6x8 Spacing	1
2027-25012	25mm-12P 3x4 Spacing	1
2027-25036	25mm-36P 4x9 Spacing	1
2027-25040	25mm-40P 4x10 Spacing	1
2027-25072	25mm-72P 6x12 Spacing	1
2027-25410	25mm-40P 4x10 Spacing	1
2027-38012	38mm-12P 3x4 Spacing	1
2027-38024	38mm-24P 4x6 Spacing	1
2027-38040	38mm-40P 4x10 Spacing	1
2027-38206	38mm-12P 2x6 Spacing	1

CULTURE TUBE RACK

The culture tube rack is designed for roller culture tubes. Manufactured from 303 stainless steel construction. Includes spring clips that prevent tubes from moving in the rack.

Item Number	Size	Case Qty
2028-16064	16mm	1

2028-16064



2048-10020



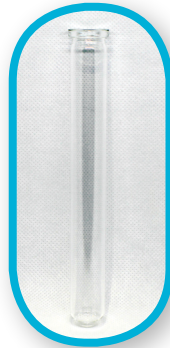
HAND OPERATED CRIMPER

Item Number	Size
2048-10020	For 20mm vials.

ANAEROBIC TUBE ONLY

- With alum seal neck
- Wall thickness: 1.10mm
- Neck id: 13.30 - 13.60mm
- For septum stoppers: 2048-11800
- For alum seals : 2048-11020
- For seal crimper: 2048-10020

2048-00150



Item Number	Size	Case Qty
2048-00150	18mm od x 150mm long	100

ANAEROBIC TUBE & STOPPER

Gas tight tube designed for maintaining anaerobic conditions. Useful for studies involving methane-producing bacteria. Includes gas impermeable blue butyl rubber septum type stopper. Tube is made of Type 1 Class B Borosilicate Glass.

Item Number	Size	Case Qty
2048-18150	Tube & Stopper	100

CONICAL BOTTOM CENTRIFUGE TUBE

Manufactured from Type 1 Class A Borosilicate Glass. Supplied with a 38-400 black phenolic rubber lined screw cap.

3045-00800



Item Number	Size	Case Qty
3045-00600	96x173mm Size: 590ml	4
3045-00800	96x173mm" Size: 780ml	4

RUBBER CUSHION FOR CONICAL BOTTOM CENTRIFUGE TUBES

Support cushion is used for insertion into centrifuge bucket under glass centrifuge tube to prevent breakage.

3045-10600



Item Number	Size	Case Qty
3045-10600	590mL	4

BELCO VIALS

Bellco Vials accept 11mm aluminum seals, and are designed for use with Hewlett Packard, Varian and other auto-samplers. Large opening vials have wider ID for easier sample access.

Clear Vials: Manufactured from Type 1, Class A or B Borosilicate Glass.

Amber Vials: Manufactured from Type 1, Class A Amber Glass.

SNAP-RING VIALS

Patented Snap-Seal design for positive design. Manufactured from Type 1 Class A Borosilicate Glass. Vials accept 11mm Snap-Ring closures only.

2070-00070



Item Number	Description	Size	Case Qty
2070-00070	11mm Clear	12x32mm	1000
2070-00075	11mm Polypropylene	12x32mm	1000
2070-00080	11mm Amber	12x32mm	1000

SCREW THREAD VIALS

2070-00020



Item Number	Description	Size	Case Qty
2070-00010	8mm S/T Clear	12x32mm	1000
2070-00020	8mm S/T Amber	12x32mm	1000
2070-00170	10-425 Clear	12x32mm	1000
2070-00180	10-425 Amber	12x32mm	1000
2070-00190	9-425 Clear RAM	12x32mm	1000
2070-00200	9-425 Amber RAM	12x32mm	1000

13 MM SCREW THREAD VIALS

Designed for use with Shimadzu aoc-14/1400 & waters 48 model auto-samplers. Manufactured from Type 1 Class A Borosilicate Glass.

Item Number	Description	Size	Case Qty
2070-00090	13mm S/T Clear	15x45mm	-
2070-00100	13mm S/T Amber	15x45mm	-

2070-00090



2070-00100



LABWARE

11 MM ALUMINUM SEAL VIAL

Clear Vials are manufactured from Type 1 Class A Borosilicate Glass. Large opening vials have wider ID for easier sample access.

2070-00030



2070-00130



Item Number	Description	Size	Case Qty
2070-00030	Clear w/ Crimp Top	12x32mm	1000
2070-00040	Amber w/ Crimp Top	12x32mm	1000
2070-00050	Clear LO - Big Mouth	12x32mm	1000
2070-00060	Amber LO - Big Mouth	12x32mm	1000
2070-00130	Clear w/ Crimp Top Grade Line	12x32mm	1000
2070-00140	Amber w/ Crimp Top Grade Line	12x32mm	1000
2070-00150	Clear w/ Crimp Top Marking Spot	2.0mL 11mm	1000
2070-00160	Amber w/ Crimp Top Marking Spot	2.0mL 11mm	1000

VIAL ACCESSORIES

Item Number	Description	Size	Case Qty
2070-06000	50 Position snap rack, white for 12 mm vialsnap racks™ are constructed of durable glass reinforced polypropylenewith a center well to conveniently hold caps, sealssepta, etc. Racks snap together securely to double your rack capacity	White Snap Rack, 50P For 12mm Vials	1
2070-06100	50 Position snap rack, blue for 12 mm vialsnap racks™ are constructed of durable glass reinforced polypropylenewith a center well to conveniently hold caps, sealssepta, etc. Racks snap together securely to double your rack capacity	Blue Snap Rack, 50P For 12mm Vials	1
2070-07000	Holds up to 50 each 12mm diameter vials. Available in blue or white polypropylene. Center section for caps, septa or inserts,.	Crimper Manual 11mm	1

2070-06000



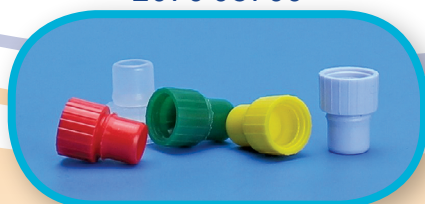
2070-00110



8X40 MM SHELL VIAL WITH PLUG INSERT

Designed for use with the water wisp 96-position auto sampler plug insert.

2070-03700



Item Number	Description	Size	Case Qty
2070-00110	8mm Shell Vial Clear	8x40mm	-
2070-00120	8mm Shell Vial Amber	8x40mm	-
2070-03700	8mm Plug Insert	8x40mm	-

SILICONE SPONGE CLOSURE

Sealed in silicone sponge closure is ideal for aerobic cultures. Flanged to fit snugly over outside of the neck preventing passage of aerosols. Silicone sponge closures can withstand dry heat sterilization up to 180 degrees Celsius. Use mainly for flasks, to prevent any trouble due to tumbling of the flask.

2004-00002



Item Number	Description	Size	Case Qty
2004-00002	Use with Culture Tubes	13-18mm	10
2004-00003	Culture Tubes, Erlenmeyer Flask, DeLong Flasks	18-25mm	10
2004-00004	Erlenmeyer Flasks	28mm	10
2004-00005	Culture Tubes, Erlenmeyer Flask, DeLong Flasks	38mm	10

STAINLESS STEEL CLOSURE

Stainless steel closures continue to provide excellence in culture tube and flask closures. Manufactured from Type 305 stainless steel, they can be used indefinitely without corroding. The fingers grip the outside of the tube firmly and will not lose their resilience through repeated autoclaving or dry heat sterilization.

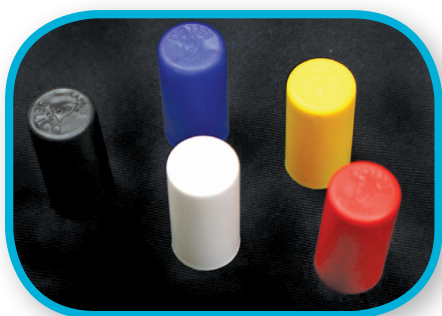
2005-00013



Item Number	Size	Case Qty
2005-00013A	13mm (Lanced)	144
2005-00016	16mm (Lanced)	144
2005-00018	18mm (Lanced)	144
2005-00020	20mm (Lanced)	144
2005-00025	25mm (Lanced)	72
2005-00038	38mm (Lanced)	36
2005-01824	18mm-24Bg (Lanced)	24
2005-02512	25mm-12Bg (Lanced)	12
2005-03803	38mm-3 Bg (Lanced)	3
2005-03806	38mm-6 Bg (Lanced)	6
2005-03812	38mm-12 Bg (Lanced)	12

KAP-UTS

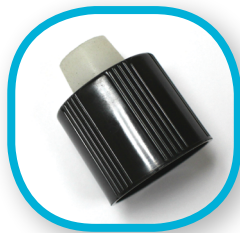
- Manufactured from non-toxic autoclavable polypropylene.
- Ideal for culture tubes and flasks with DeLong® style neck and access ports.
- Same evaporation and sterility characteristics as stainless steel closures.
- Molded pressure fins for firm grip.
- There are seven colors to promote easy identification.



Item Number	Size	Case Qty	Item Number	Size	Case Qty
2007-13001	13mm	1000	2007-18005	18mm	1000
2007-13002	13mm	1000	2007-18006	18mm	1000
2007-13003	13mm	1000	2007-20001	20mm	500
2007-13004	13mm	1000	2007-20002	20mm	500
2007-13005	13mm	1000	2007-20003	20mm	500
2007-13006	13mm	1000	2007-20004	20mm	500
2007-16001	16mm	1000	2007-20005	20mm	500
2007-16002	16mm	1000	2007-20006	20mm	500
2007-16003	16mm	1000	2007-25001	25mm	500
2007-16004	16mm	1000	2007-25002	25mm	500
2007-16005	16mm	1000	2007-25003	25mm	500
2007-16006	16mm	1000	2007-25004	25mm	500
2007-18001	18mm	1000	2007-25005	25mm	500
2007-18002	18mm	1000	2007-25006	25mm	500
2007-18003	18mm	1000	2007-25013	25mm	500
2007-18004	18mm	1000	2007-38005	38mm	250

BLACK PHENOLIC SCREW CAP ASSEMBLY FOR ADJUSTABLE HANGING BAR SPINNER FLASK 1967-90038

Black phenolic screw caps are manufactured from specially formulated phenolic resin to resist the effects of temperature and steam autoclaving. They have a non-toxic white rubber liner for all general culture applications. Consists of screw cap liner and stopper or compression fitting.



Item Number	Size	Case Qty
1967-90038	38 mm	1
1967-90051	51 mm	1

PTFE SILICONE SEPTA 2070-01000



Item Number	Description	Size	Case Qty
2070-01000	Red PTFE Silicone	8mm	1000
2070-01100	White PTFE	8mm	1000
2070-01200	Red PTFE Silicone	13mm	1000
2070-01300	White PTFE	9mm	1000
2070-01400	PTFE Red Rubber	9mm	1000
2070-01500	PTFE Silicone	9mm	1000
2070-01600	Red PTFE Silicone	10mm	1000
2070-01700	White PTFE	10mm	1000

LABWARE

CLOSURES & SEPTA

Designed for standard screw thread vials. Available with or without septa.

2070-00500



Item Number	Description	Size	Case Qty
2070-00500	Black	8mm	1000
2070-00525	Red	8mm	1000
2070-00550	Blue	9mm	1000
2070-00600	Black	13mm	1000
2070-00700	Black w/ Septa	8mm	100
2070-00800	Black w/ Septa	13mm	100
2070-00900	Blue w/ PTFE/RR Septa	9mm	1000
2070-00950	Blue w/ PTFE/Silicone Septa	9mm	1000
2070-00960	Blue w/ PTFE/Silicone Septa	10mm	1000
2070-00975	Black	10mm	1000
2070-00995	Blue	10mm	1000

ALUMINUM SEAL & SNAP RING CLOSURES

Designed for standard screw thread vials. Available with or without septa.

2070-02000



Item Number	Description	Size	Case Qty
2070-02000	Aluminum Seal, Silver	11mm	1000
2070-05100	Aluminum Seal, Blue	11mm	1000
2070-05200	Aluminum Seal, Yellow	11mm	1000
2070-05300	Aluminum Seal, Green	11mm	1000
2070-05000	Aluminum Seal, Silver w/ PTFE Liner	11mm	1000
2070-05400	Poly Crimp Seal, Clear	11mm	1000
2070-03000	Snap-Ring PTFE Red Rubber	11mm	1000
2070-03100	10mL PTFE Liner	11mm	1000
2070-03200	PTFE Silicone	11mm	1000
2070-03500	PTFE Silicone PTFE	11mm	1000

CLONING CYLINDERS

Cloning cylinders are used to surround a single cell to create homogeneous culture of cells rather than mixed population. Flat end insures tight sealing with surface of culture dish.

2090-00608



Item Number	Size	Case Qty
2090-00608	6x8mm	125
2090-00808	8x8mm	125
2090-01010	10x10mm	125

DISINFECTANT CYLINDER

For use in the disinfectant testing procedure as described in the AOAC manual. Cylinder ends are lightly glazed. Hard surface carrier test for efficacy of testing of disinfectants.

2091-00808



Item Number	Size	Case Qty
2091-00808	8x8mm	125
2091-08010	8x10mm	125

AUTOCLAVE STERILIZATION BAGS

Rugged polypropylene bags withstand 130°C, and have the OSHA Bio-Hazard symbol imprinted on bags.

2200-12240



Item Number	Size	Case Qty
2200-12240	12X24"	100
2200-24300	24X30"	100
2200-24360	24X36"	100

AUTOCLAVE STERILIZATION BAG HOLDER

Ideal for autoclave Sterilization Bags. Place a biohazard bag into the sturdy wire holder and stretch the bag over the top ring. A separate hooked ring rests over the top to keep the bag in place. Circular shape keeps bags wide open for easy access.

2202-12024



Item Number	Size	Case Qty
2202-12024	Holder for 12x24" Bag	1

BIOMETER FLASK

- Designed for the measurement of microbial CO₂ production over time.
- Ideal for bioremediation studies.
- Manufactured from Type 1 Class A Borosilicate Glass.
- All components are autoclavable.
- Has a plastic coating and finger grip handle with adapter.

2556-10250



Item Number	Description	Size	Case Qty
2556-00250	Biometer Flask Complete	250mL	1
2556-10250	Flask Only	250mL	1
2556-20250	Flask Filter Only	-	1
2556-30250	Needle Assembly	-	1

FREEZE DRYING AMPOULE

Type 1 Class A Borosilicate Glass, flat bottom. Ideal for freeze drying or cryogenic storage. Neck has pre-drawn constriction to facilitate sealing.

4025-00001



4024-00001



Item Number	Description	Neck OD (mm)	Bottom OD(mm)	Length(mm)	Size	Case Qty
4019-00001	Flat Bottom Constriction on the neck	7	10	80	1mL	72
4024-5000	Round Bottom Constriction on the neck	6	4	105	0.5mL	144
4024-00001	Round Bottom Constriction on the neck	8	11	145	1mL	144
4024-00002	Round Bottom Constriction on the neck	9	12	145	2mL	144
4025-00001	Round Bottom Tublar	7	-	127	1mL	144
4025-00002	Round Bottom Tublar	8	-	145	2mL	144
4025-00003	Round Bottom Tublar	8	-	145	3mL	144
4025-00004	Round Bottom Tublar	8	-	170	4mL	144

4752-10001



DETERGENT

Liquid concentrate at pH 7.8 of anionic surfactants and special solvents for use in washing procedures for all laboratory glassware. It is non-caustic, non-acidic and indicated for hand washing procedures.

Item Number	Description	Size	Case Qty
4752-10001	7X Detergent	1 Gal	4
4752-20001	7X-O-Matic Detergent	1 Gal	4

5610-00050



ASEPTIC FILLING BELL

Manufactured from Type 1 Class A Borosilicate Glass. Ideal for use of filling other glass vessels. Receiving vessel is placed under bell to maintain sterility during filling. Attaches to reservoir with rubber tubing.

5610-00100



Item Number	OD x OAL (mm)	Tubing Size (in)	Size	Case Qty
5610-00020	22 x 75mm	¼"	20mm	2
5610-00040	41 x 95mm	¼"	40mm	2
5610-00050	49 x 100mm	½"	50mm	2
5610-00070	70 x 125mm	½"	70mm	2
5610-00100	104 x 130mm	½"	100mm	2

LABWARE

GRIFFIN BEAKER HEAVY WALL

Heavy duty break resistant lip. Graduated to approximate volumes. Type 1 Class A Borosilicate Glass.

5620-00005



GRIFFIN BEAKER STANDARD WALL

Type 1 Class A Borosilicate Glass. Ideal for general laboratory use. White double scale graduations on 250mL and larger sizes.

5621-00100



Item Number	OD x OAL (mm)	Size	Case Qty
5620-00005	20 x 23mm	5mL	12
5620-00050	40 x 56mm	50mL	12
5620-00100	51 x 65mm	100mL	12
5620-00250	70 x 87mm	250mL	12
5620-00400	80 x 106mm	400mL	12
5620-00600	95 x 110mm	600mL	12
5620-01000	110 x 145mm	1L	3
5620-02000	134 x 190mm	2L	3
5620-04000	160 x 250mm	4L	2

Item Number	OD x OAL (mm)	Size	Case Qty
5621-00050	41 x 58mm	50mL	12
5621-00100	50 x 69mm	100mL	12
5621-00150	58 x 80mm	150mL	12
5621-00250	68 x 95mm	250mL	12
5621-00400	111 x 175mm	400mL	12
5621-00600	88 x 123mm	600mL	6
5621-01000	106 x 148mm	1L	6
5621-02000	129 x 190mm	2L	4

CLASS A GRADUATED CYLINDER

Type 1 Class A Borosilicate Glass. Hexagonal bumper guard included (except 2000mL size). White double scale graduations.

5625-00050



Item Number	Graduation Interval (mL)	Tolerance (mL)	OD x OAL (mm)	Size	Case Qty
5625-00050	0.5	0.25	24 x 218mm	TC 50mL	4
5625-00100	0.1	0.4	30 x 236mm	TC 100mL	4
5625-00250	0.2	100	41 x 301mm	TC 250mL	4
5625-00500	0.5	200	53 x 362mm	TC 500mL	2
5625-01000	100	300	70 x 422mm	TC 1L	2
5625-02000	200	600	90 x 478mm	TC 2L	1

BOTTLES

DELONG® ROUX CULTURE BOTTLE

Ideal for large area mono-layer cell culture growth. Offset neck prevents culture from entering neck area. Working volume is approximately one half total volume. DeLong® style neck is designed for use with 38mm stainless steel closure.

5632-12000



Item Number	Description	OD x OAL (mm)	Size	Case Qty
5630-12000	DeLong Roux Bottle	122 x 56 x 290mm	1200mL Schott Blank	2
5632-12000	Screw Cap Roux Bottle	132 x 56 x 280mm	S/Cap 1200mL Schott Blank	2

MEDIA STORAGE BOTTLE WITH WHITE RUBBER LINED PHENOLIC CAP

Manufactured from Type 1 Class B Borosilicate Glass. Large opening and sloping shoulders facilitate pouring and cleaning. Heavier walls prevent breakage of glass. Media storage bottles have white graduations and a marking area. They are supplied with rubber lined 33mm black phenolic screw cap.

5636-00125



Item Number	OD x OAL (mm)	Cap Size (mm)	Size	Case Qty
5636-00125	55 x 120	33	125mL	12
5636-00250	66 x 149	33	250mL	12
5636-00533	88 x 187	33	500mL	12
5636-01038	103 x 231	38	1000mL	6

MEDIA STORAGE BOTTLE WITH BLUE POLYPROPYLENE LINERLESS CAP

Manufactured from Type 1 Class A Borosilicate Glass. These media storage bottles are chemically resistant and stable. They are suitable for storage as well as for mixing and sampling. They are autoclavable and have white graduations and marking spot. On sizes 100-2000mL there is a full capacity line. These bottles include a linerless blue polypropylene cap and blue polypropylene pouring ring.

5637-00100



Item Number	OD x OAL (mm)	Size	Case Qty
5637-00050	46 x 87	50mL	10
5637-00100	56 x 100	100mL	10
5637-00250	70 x 138	250mL	10
5637-00500	85 x 176	500mL	10
5637-01000	101 x 225	1000mL	10
5637-02000	136 x 260	2000mL	10
5637-05000	182 x 330	5000mL	1
5637-10000	227 x 410	10000mL	1

ANAEROBIC MEDIA BOTTLE

2048-00050



Type 1 Class A Borosilicate Glass that are designed for maintaining anaerobic conditions. Useful for studies involving methane-producing bacteria, cell culture, drug discovery, and research and development.

Accessories:

-2048-11800 septum stopper

Item Number	OD x OAL (mm)	Size	Case Qty
2048-00050	46 x 88	50mL	12
2048-00100	56 x 100	100mL	12
2048-00250	70 x 138	250mL	12
2048-00500	85 x 176	500mL	6
2048-01000	100 x 215	1000mL	6

-2048-11020 aluminum seal

-2048-10020 seal crimper

ANAEROBIC BOTTLE WITH SCREW CAP

2048-50100



The anaerobic culture bottle is designed for the growth of anaerobic bacteria and maintaining anaerobic conditions. The bottle features a 45 gl screw cap with silicone o-ring and blue butyl rubber stopper. This allows for easy access of contents and eliminates the use of the traditional aluminum seal. Butyl rubber stopper allows for multiple punctures with a needle. Bottle is Borosilicate glass and cap is polypropylene. All components are autoclavable. Polypropylene screw cap with silicone gasket and butyl rubber stopper. Components are fully autoclavable @ 121° c.

This allows for easy access of contents and eliminates the use of the traditional aluminum seal. Butyl rubber stopper allows for multiple punctures with a needle. Bottle is Borosilicate glass and cap is polypropylene. All components are autoclavable. Polypropylene screw cap with silicone gasket and butyl rubber stopper. Components are fully autoclavable @ 121° c.

Item Number	OD x OAL (mm)	Size	Case Qty
2048-50100	56 x 100	100mL	12
2048-50250	70 x 138	250mL	12
2048-50500	86 x 176	500mL	12
2048-51000	101 x 255	1L	6

ANAEROBIC AGAR BOTTLE COMPLETE

2535-50020



Manufactured from Type 1 Class A Borosilicate Glass

Item Number	W x D x H (mm)	Size	Case Qty
2535-50020	55 x 135 x 30	80mL	1

SQUARE MEDIA STORAGE BOTTLE WITH BLUE POLYPROPYLENE LINERLESS CAP

5637-40100



Type 1 Class A Borosilicate Glass. 32mm or 45mm blue polypropylene caps and pouring rings (140 degree °C). Space saving square design with sloped shoulder for easy cleaning. Shoulder groove indicates maximum volume for each.

Item Number	Thread Size (mm)	W x D x H (mm)	Size	Case Qty
5637-40100	32	50 x 50 x 105	100mL	10
5637-40250	32	64 x 64 x 138	250mL	10
5637-40500	45	78 x 78 x 179	500mL	10
5637-41000	45	94 x 94 x 218	1000mL	10

MEDIA BOTTLE WITH BLUE STORAGE CAP

Manufacture from Type 1 Class A Borosilicate Glass.

Includes: 45mm polypropylene blue screw cap and pouring ring.

5637-80250



Item Number	OD x OAL (mm)	Size	Case Qty
5637-80100	56 x 105	100mL	10
5637-80250	70 x 143	250mL	10
5637-80500	86 x 182	500mL	10
5637-81000	101 x 203	1L	10
5637-82000	136 x 260	2L	10
5637-85000	186 x 355	5L	1
5637-88100	234 x 435	10L	1

MEDIA STORAGE BOTTLE WITHOUT CAP CLEAR & AMBERIZED

Manufactured from Type 1 Class A Borosilicate Glass. These media storage bottles are chemically resistant and stable. They are suitable for storage as well as for mixing and sampling. They are autoclavable and have white graduations and marking spot. On sizes 100-2000mL there is a full capacity line.

5637-60050



Item Number	Description	Screw Thread Size (mm)	OD x OAL (mm)	Size	Case Qty
5637-60050	Storage Bottle	32	46 x 87	50mL	10
5637-60100	Storage Bottle	32	56 x 100	100mL	10
5637-60250	Storage Bottle	32	70 x 138	250mL	10
5637-60500	Storage Bottle	32	86 x 176	500mL	10
5637-61000	Storage Bottle	45	101 x 225	1000mL	10
5637-62000	Storage Bottle	45	136 x 260	2000mL	10
5637-65000	Storage Bottle	45	182 x 330	5000mL	1
5637-7000	Storage Bottle	45	227 x 410	10000mL	1
5637-68000	Storage Bottle	45	268 x 445	15000mL	1
5637-69000	Storage Bottle	45	288 x 505	20000mL	1
5637-70050	Amber Stained	32	46 x 87	Amberized 50mL	10
5637-70100	Amber Stained	32	56 x 100	Amberized 100mL	10
5637-70250	Amber Stained	32	70 x 138	Amberized 250mL	10
5637-70500	Amber Stained	45	86 x 176	Amberized 500mL	10
5637-71000	Amber Stained	45	101 x 225	Amberized 1000mL	10
5637-72000	Amber Stained	45	136 x 260	Amberized 2000mL	10
5637-75000	Amber Stained	45	182 x 330	Amberized 5000mL	1
5637-77000	Amber Stained	45	227 x 410	Amberized 10000mL	1
5637-78000	Amber Stained	45	268 x 445	Amberized 15000mL	1

5637-70500



ROLLER BOTTLE

7730-38440



Item Number	Description	Size	Case Qty
7730-38285	Roller bottle with 38mm rubber lined screw cap-Borosilicate glass, type 1,Class A-38 mm deep-skirt, nontoxic, rubber lined phenolic screw cap-replacement cap: 2029-0038a	Roller Bottle, 110x285mm	2
7730-38440	Roller bottle with 38mm rubber lined screw cap -Borosilicate glass, type 1,Class A -38 mm deep-skirt, nontoxic, rubber lined phenolic screw cap -replacement cap: 2029-0038a	Roller Bottle, 110x440mm	2
7730-38490	Roller bottle with 38mm rubber lined screw cap -Borosilicate glass, type 1,Class A -38 mm deep-skirt, nontoxic, rubber lined phenolic screw cap -replacement cap: 2029-0038a area (cm2): 1330 case qty: 2	Roller Bottle, 110x490mm With 38mm Neck	2
7730-38585	Roller bottle with 38mm rubber lined screw cap -Borosilicate glass, type 1,Class A -38 mm deep-skirt, nontoxic, rubber lined phenolic screw cap -replacement cap: 2029-0038a area (cm2): 1585 case qty: 2	Roller Bottle, 110x570mm 38mm Deep Skirt Black Cap	2
7730-51120	Roller bottle with 51mm rubber lined cap & indented bottom -Borosilicate glass, type 1,Class A -larger outside diameter for greater growth area per bottle -indented bottom for placement of two bottles on a standard roller -51 mm short-skirt, nontoxic, rubber lined phenolic screw cap -replacement cap: 2029-0051a area (cm2): 835 case qty: 2	Roller Bottle, 120x 285mm With Indented Bottom	2
7730-51270	Roller bottle with 51mm rubber lined screw cap -Borosilicate glass, type 1,Class A -51 mm short-skirt, nontoxic, rubber lined phenolic screw cap -large mouth facilitates cell harvesting -replacement cap: 2029-0051a area (cm2): 670 case qty: 2	Roller Bottle, 110X270mm	2
7730-51475	Roller bottle with 51mm rubber lined screw cap-Borosilicate glass, type 1,Class A-51 mm short-skirt, nontoxic, rubber lined phenolic screw cap-large mouth facilitates cell harvesting-replacement cap: 2029-0051a	Roller Bottle, 110x475mm	2
7730-51585	Roller bottle brush-for 110 mm od roller bottles w/51 mm opening-nylon bristles for easy cleaning of hard-to-reach surfaces-useable length: 690 mmnote: to keep nylon bristles straight & effective dipflattened brush in hot water - then shake outmaterial:plastic handleplastic tube covering shaft#8 wire - nylon	Roller Bottle, 110x570mm 51mm Short Skirt Black Cap	2

ROLLER BOTTLE ACCESSORIES

Roller bottle rinser. Rinses any bottle over 75mm in height x ID from 10 to 102 mm

- Connects to a standard laboratory water tap (max 80 psig).
- Pressurized water reaches every corner with a unique swirling action.
- Includes one meter length of 3-ply, high pressure hose.

7731-88285



7731-88290



7731-11111



Item Number	Description	Size	Case Qty
7731-88285	Roller Bottle Rinser	-	1
7731-88290	Distributor Cover	-	1
7731-11111	Roller Bottle Brush	110mm	2

CAPS AND RINGS

BLACK PHENOLIC SCREW CAP

Black phenolic screw caps are manufactured from specially formulated phenolic resin to resist the effects of temperature and steam autoclaving. They have a non-toxic white rubber liner for all general culture applications. The deep skirt reduces risk of contamination. Includes white rubber liner sealed into the cap. The screw cap is autoclaveable.

2029-00016



Item Number	Size	Case Qty
2029-00013	13mm Long Skirted - With Liner	144
2029-10013	13mm	1000
2029-00016	15mm Long Skirted - With Liner	144
2029-10015	15mm	1000
2029-00018	18mm	144
2029-10018	18mm	500
2029-00025	24mm Long Skirted - With Liner	144
2029-00028	28mm Long Skirted - With Liner	72
2029-00038	38mm Long Skirted - With Liner	36
2029-00051	51mm	72
2030-00038	38mm	72
5636-33430	33mm - With Liner	72
5636-38430	38mm - With Liner	72
7730-00038	38mm	36

OPEN TOP SCREW CAP 5637-00035

Ideal for addition & withdraw of contents via syringe.

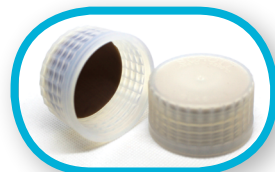
- 45mm cap has 33mm hole to accommodate 45mm septa or 45mm port assembly.
 - 32mm cap has 20mm hole to accommodate 32mm septa or 32mm port assembly.
- Polypropylene.



Item Number	Description	Size	Case Qty
5637-00010	Blue Cap PP	45mm	10
5637-00035	Blue Cap PP	32mm	10
5637-00015	Green Cap PP	45mm	10
5637-00020	Yellow Cap PP	45mm	10
5637-00025	Grey Cap PP	45mm	10
5637-00030	Septa .125 x 1.70	45mm	10
5637-00038	Septa .125 x 1.20	32mm	10

PREMIUM SCREW CAP 5637-00040

The screw cap is made from a material of highest chemical resistance TPCH260 in order to prevent the medium from being



contaminated in any form. The cap does not contain any colorants or plastic pigments. The silicone seal is coated with PTFE on both sides for highest demands on chemical resistance. The seal is firmly fixed to the cap thus preventing the medium from leaking into the space between the lid. It remains extremely tight even after having been opened and closed several times. The matching pouring ring guarantees non-dipping safe handling. Universally applicable premium cap for all GL45 thread meets the highest demands for storing, and packaging products from pharmaceutical, chemical industries. The premium cap is characterized by its temperature resistance ranging from -196C to 260C. Due to high temperature range this cap is suitable for many sterilization methods such as autoclaving or dry heat sterilization. Packed 5 per case.

Item Number	Description	Size	Case Qty
5637-00040	Clear Cap	45mm	5

SOLID POLYPROPYLENE SCREW CAP

Molded inner ring of linerless cap seals into the neck of a GL45 media bottle. Caps are autoclavable to 140°C.

5637-00032



Item Number	Description	Size	Case Qty
5637-00032	Color : Blue	Blue - 32mm	10
5637-00045	Color: Blue	Blue - 45mm	10
5637-00047	Color : Green	Green - 45mm	10
5637-00048	Color : Yellow	Yellow - 45mm	10
5637-00049	Color : Grey	Grey - 45mm	10

HI-TEMP RED SCREW CAP

Manufactured from red PolyButylene Terephthalate with PTFE faced silicone liner for use at higher temperatures. Autoclavable to 180°C. Packed 10 per case.

5637-90045



Item Number	Description	Size	Case Qty
5637-90032	High Temp Screw Cap	32mm	10
5637-90045	High Temp Screw Cap	45mm	10

MEMBRANE SCREW CAP

Membrane screw cap can be used for all bottle with a GL45 thread. Characterized by polypropylene material. The cap features extremely fast pressure compensation that prevents both over pressure vacuums. Liquid soil particles solid matter cannot permeate into the bottle to autoclave media. The membrane cap is screwed tightly onto the bottle, there is no need for screwing or unscrewing the cap before or after the autoclaving process. The cap can be used over and over again provided it is not damaged mechanically.

5637-00046



Item Number	Size	Case Qty
5637-00046	0.2 Membrane S/Cap, 45mm	5

PREMIUM POURING RING

Premium pouring ring guarantees non-drip GL45 and safe handling clear color use with 5637-00040 - premium screw cap.

5637-00041



Item Number	Description	Size	Case Qty
5637-00041	Clear	45mm	5

POLYPROPYLENE POURING RING

Provides drip free pouring and protects bottle rim from chipping.

5637-10032



Item Number	Description	Size	Case Qty
5637-10032	Blue	32mm	10
5637-10045	Blue	45mm	10

HI-TEMP RED POURING RING

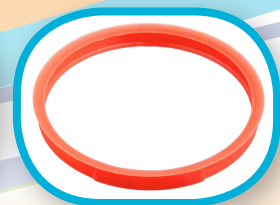
Use with high temperature red PBT cap. Ethylene tetrafluoroethylene copolymer pouring ring provides drip free pouring and protects thread from chipping. Autoclavable to 180°C. Packed 10 per case.

Item Number	Size	Case Qty
5637-91032	32mm	10
5637-91045	45mm	10

5637-91032



5637-91045



LABWARE

RESERVOIR CAP ASSY 4300-A1005

Reservoir cap is a reusable autoclavable cap that fits into a standard 250mL culture media bottle. Includes cap, gasket, and 2 stainless steel tubes with angled hose barbs. Fits any 33mm glass bottle thread.



Item Number	Size	Case Qty
4300-A1005	250mL-33nk	1

MICROSCOPE SLIDES

Bellco printed glass microscope slides feature fired ceramic printing that provides a micro-edge. This increases liquid retention yet resists volatile solvents thus enabling the slides to withstand repeated autoclaving cycles. A variety of test-specific slides are available and Bellco will customize slides in multiple colors and configurations to comply with specific requirements.



Item Number	Description	Size	Case Qty
5638-01920	Reich Slide	25x75mm	144
5638-01930	Somatic Slide	25x75mm	144
5638-01940	Fluorescent Antibody Slide	25x75mm	144
5638-00103	Pre-Cleaned Frosted Slide	25 x 75mm	1440
5638-10300	Pre-Cleaned Frosted Slide	25x75mm	1440
5638-11013	Pre-Cleaned Plain Slide	25x75mm	1440
5638-12013	Pre-Cleaned Plain Slide	25x75mm	1440

PETRI DISH SPREADER 5654-00120

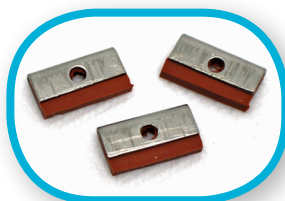
- Ideal for spreading inoculum over agar face in petri dish cultures.
- Manufactured from 4mm OD Borosilicate glass rod.



Item Number	Bend	Size	Case Qty
5654-00090	90°	130mm	50
5654-00120	120°	130mm	50

CELL SCRAPER 7731-22005

- Stainless steel blade holder mounted on plastic covered stainless steel handle.
- Fully autoclavable.



Item Number	Description	Size	Case Qty
7731-22000	Small Blade	5/8" x 1/4" x 7 3/4"	2
7731-22005	Small Replacement Blade	-	10
7731-22111	Medium Blade	1 1/4" x 9/16 x 13"	1
7731-22115	Medium Replacement Blade	-	10
7731-22222	Large Blade	2 3/4" x 3/4" x 24 1/2"	1
7731-22225	Large Replacement Blade	-	10

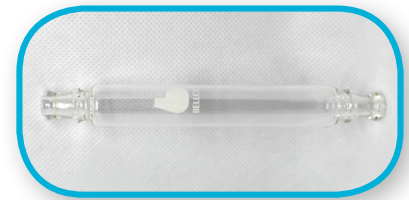
AIR FILTER TUBE

Manufactured from Type 1, Class A Borosilicate Glass, and accepts rubber or silicone tubing with 6.4mm.

- ID fully autoclavable
- Utilizes glass wool fibers for non-sterile filtering rod = 16mm

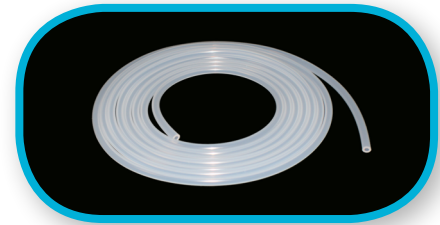
Item Number	Size	Case Qty
5618-16125	16x125mm	36

5618-16125



SILICONE TUBING

Silicone Tubing is specifically formulated for use with media found in pharmaceutical and biotech processing. Ideal for a range of performance requirements, extended life pumping and in applications demanding ultimate purity in fluid transfer and peristaltic pump.



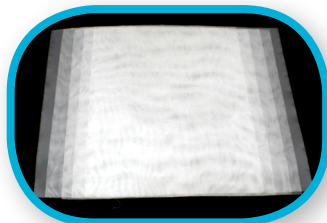
Item Number	Description	Size	Case Qty
4702-86210	-	5x9mm	1
7800-10025	Clear silicone tubing wallcut to 25' lengths, temperature range: -51°C to 238°C max. Pressure: 13psig @ 21°C fda compliant - 21 cfr 177.2600 Meets usp class vi	3/16" x 25'	1
7800-10050	Silicone tubing 50ft	1/4" x 50'	1
7800-10100	Silicone tubing	1/2" x 10'	1
7800-10200	Peroxide silicone tubing od: 3/32" (2.4Mm) id: 1/32" (0.8Mm) wall: 1/32" (0.8Mm) max. Pressure @ 70°C: 31 packed 25' roll	3/32" x 25'	1
7800-10300	Peroxide silicone tubing od: 1/8" (3.2Mm) id: 1/16" (1.6Mm) wall: 1/32" (0.8Mm) max. Pressure @ 70°C: 15 packed 25' roll	1/8" x 25'	1
7800-10400	Peroxide silicone tubing od: 5/32" (4.0Mm) id: 3/32" (1.6Mm) wall: 1/32" (0.8Mm) max. Pressure @ 70°C: 14 packed 25' roll polypropylene lamination: pharmaceutical, biotechnology, food & beverage aerospace & general lab polypropylene laminations. Characteristics: peroxide-cured - excellent heat resistance, low compression set, odorless, non-toxic - translucent resin certification: resin is fda-compliant (21 cfr 177.2600) Meets usp class vi requirements. Tubing is manufactured to gmp temperature range: -60°F to 460°F (-51°C to 238°C) sterilize: with autoclave or gamma irradiation	5/32" x 25'	1

NYLON MESH

Used for auto blot hybridization ovens.

- Pore size: 125 microns open area; 39%
- Mesh count: (per inch); 127
- Weave type: 1/1 plain fabric

7910-02024



Item Number	Size	Case Qty
7910-02024	Large Nylon Mesh, 23x23cm-20/cs	20
7910-02026	Large Nylon Mesh, 23x23cm-5/cs	5
7910-15005	Small Mesh, 10x15cm-5 Pkg	5
7910-15010	Small Mesh, 10x15cm-20 Pkg	20

- Thickness: 120 microns
- Weight: 1.5 Ounces per sq yd

BASIC PIPET AID

Basic pipet aids are lightweight, compact units that are ideal for use under laminar flow hoods. A patented two-finger volume control provides precise fluid uptake and dispensing.

PORTABLE PIPET AID

The portable pipet aid is a rechargeable self contained unit that provides 2 hours of pipetting before recharging is necessary. Includes battery charger and tissue culture nose piece.

PORTABLE PIPET AID XP

The Portable Pipet Aid XP is a rechargeable self contained unit with removable stand. Three independent speed ranges can be set for both fill and dispense rates and the unit provides 2 hours of continuous pipetting with recharging. Includes battery charger and tissue culture nose piece.

1225-80000



1225-85220



1225-88105



1225-88050



1225-88052



Item Number	Description	Size	Case Qty
1225-80000	Pipet-Aid Basic	115v	1
1225-80220	Pipet-Aid Basic	230v	1
1225-80100	Pipet-Aid w/ Air Filter	115v	1
1225-80122	Pipet-Aid w/ Air Filter	230v	1
1225-85000	Portable Pipet-Aid	115v	1
1225-85220	Portable Pipet-Aid	230v	1
1225-86000	Pipet-Aid XP	115v	1
1225-86220	Pipet-Aid XP	230v	1
1225-88100	Pipet-Aid w/ Tissue Culture Nose Piece & Air Filter	115v	1
1225-88122	Pipet-Aid w/ Tissue Culture Nose Piece & Air Filter	230v	1
1225-88105	Pipet-Aid w/ Tissue Culture Nose Piece	115v	1
1225-88225	Pipet-Aid w/ Tissue Culture Nose Piece	230v	1

Parts

Item Number	Description	Size	Case Qty
1225-80001	Pipet-Aid Handle	-	1
1225-80002	Pipet-Aid Pump	115v	1
1225-80003	Pipet-Aid Pump w/ Filter	115v	1
1225-80056	Pipet-Aid Holder Insert	-	6
1225-80222	Pipet-Aid Pump	230v	1
1225-88050	Tissue Culture Nose Piece	-	1
1225-88051	Tissue Culture Nose Piece Filter	-	5
1225-88052	Tissue Culture Nose Piece Filters	-	50



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BIOREACTOR

3L METRIC BIOREACTOR & FERMENTER SYSTEMS

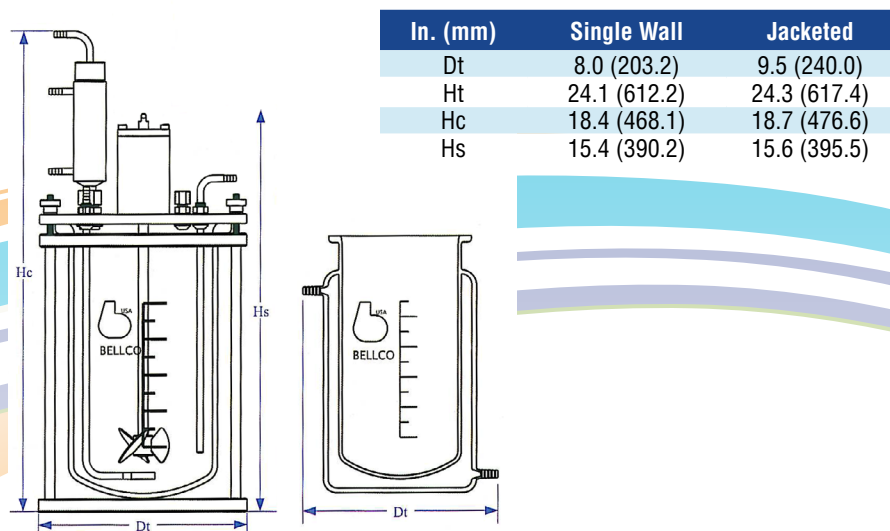
Key Features & Benefits

No thread head plate ports:	Sanitary design
Ring and tripod stand design:	Very Stable
Ample headplate ports:	Flexible configurations
Superior single mechanical seal:	Simple to maintain
High quality FDA approved materials:	Sanitary and long life
Custom headplate & vessel configurations:	Flexible design
High speed & torque motor:	Ideal for all applications
Standard vessel geometries:	Optimizes mixing & scaling
Numerous accessories available:	Ideal for all cell cultures

Specifications:

- Total Volume: 3.6L
- Working Volume: 2L @ H/D=1, 2.8L @ H/D=1.5
- Minimum Volume: 0.7L
- Jacketed Vessel: Hose barb w/ 4mm ID x 12mm OD
- Stainless Steel: 316L Electropolished Finish of Ra 32µ inch
- Stand: Aluminum / Stainless
- Glass: Type 1 Class A Borosilicate Glass
- Heating Blanket: 5"x20" (127mm x 508mm) 120W, Male IEC Plug
- Elastomers: Silicone, meets 21 CFR 177.2600
- Ports: 3ports-6mm 9ports-10mm 6ports-18mm 1-center port for drive shaft
- Seal Type: Single mechanical
- Graduations: 5mL to 2.5L in 500mL increments

Quotations for bioreactor systems are provided upon request. Contact cservice@bellcoglass.com or your local Bellco sales representative.



3L System for Mammalian Cell Culture & Fermentation

Item Number	Description
7909-10003	3L Glass Vessel
7909-11003	3L Jacketed Glass Vessel
7909-30000	3L Head Plate
7909-00003	Drive Seal Assembly 3/4" Shaft
7909-00005	Rushton Impeller 2"
7909-00016	Pitch Blade Impeller 2" RH
7909-00032	Pitch Blade Impeller 2" LH
7909-10001	Marine Impeller 3" LH
7909-10002	Marine Impeller 3" RH
7909-00019	Bioreactor Stand
7909-00004	Split Flange Ring Stand (for jacketed vessel)
7909-00001	DO & pH Probe Holder
7909-00002	Septum Assembly 13mm
7909-00006	3 Port Inlet Assembly
7909-00008	Condenser
7909-00009	Large Harvest Pipe Angled
7909-00011	Cooling Finger
7909-00012	Sample System 1/2"
7909-00014	Adjustable Pipe Holder 1/4"
7909-00018	Adjustable Compression Fitting 1/8"
7909-00020	Harvest Pipe, Straight
7909-00021	Thermowell
7909-00022	Baffle Assembly
7909-00023	Harvest Pipe Angled
7909-00024	Sparger Pipe w/ Stainless Steel Frit
7909-00025	Sparger Pipe w/ .404" Holes
7909-00026	Sample Pipe Angled
7909-00027	Sample Pipe Straight
7909-00028	Addition / Vent Port
7909-00030	Adjustable Pipe Holder 12mm
7909-00057	6mm Port Plug
7909-00058	10mm Port Plug
7909-00059	18mm Port Plug
7909-00060	Liquid Addition Assembly
7909-00086	Level / Foam Probe Assembly
1964-10000	Head Plate Setup Stand
7909-23115	Heating Blanket 115v
7909-23230	Heating Blanket 230v
A555-59	# 359 Silicone Headplate O-Ring

7L System for Mammalian Cell Culture & Fermentation

Item Number	Description
7909-10007	7L Glass Vessel
7909-11007	7L Jacketed Glass Vessel
7909-70000	7L Headplate
7909-07004	Drive Seal Assembly
7909-00040	Rushton Impeller 2.5"
7909-00033	Pitch Blade Impeller 2.75" RH
7909-00034	Pitch Blade Impeller 2.75" LH
7909-10001	Marine Impeller 3" LH
7909-10002	Marine Impeller 3" RH
7909-00043	Bioreactor Stand
7909-00044	Split Flange Ring (for jacketed vessel)
7909-00001	DO and pH Probe Holder
7909-00002	Septum Assembly 13mm
7909-00006	Inlet Assembly 3 Port
7909-00047	Condenser
7909-00101	Large Harvest Pipe Angled
7909-00036	Cooling Finger
7909-00012	Sample System
7909-00014	Adjustable Pipe Holder 1/4"
7909-00018	Adjustable Pipe Holder 1/8"
7909-00035	Harvest Pipe Straight
7909-00041	Thermowell
7909-00039	Baffle Assembly
7909-00073	Harvest Pipe Angled
7909-00045	Sparger Pipe w/ Stainless Steel Frit
7909-00046	Sparger Pipe w/ .040" Holes
7909-00048	Sample Pipe Angled
7909-00072	Sample Pipe Straight
7909-00028	Addition / Vent Port
7909-00030	Adjustable Pipe Holder 12mm
7909-00058	10mm Port Plug
7909-00059	18mm Port Plug
7909-00060	Liquid Addition Assembly
7909-00102	Level / Foam Assembly
1964-10000	Headplate Setup Stand
7909-27115	Heating Blanket 115v
7909-27230	Heating Blanket 230v
A555-269	#442 Silicone Headplate O-Ring

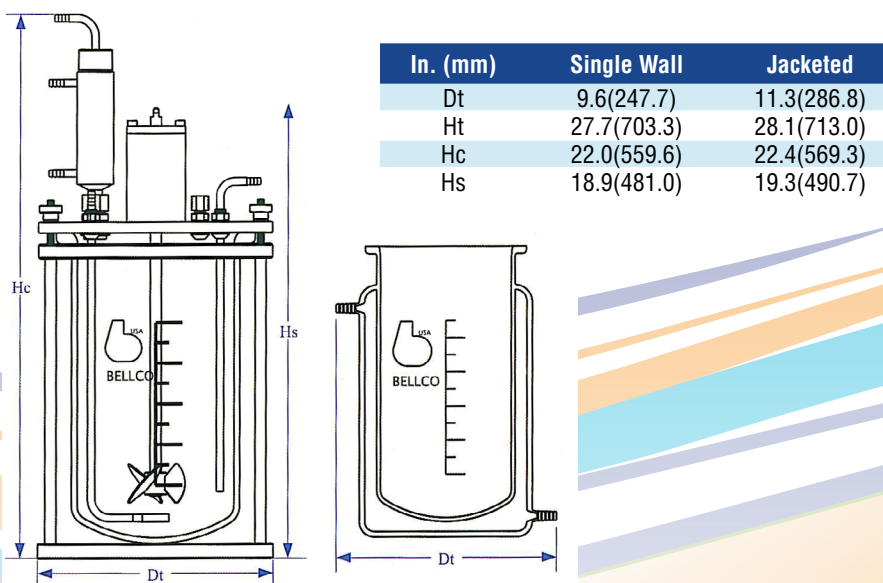
7L METRIC BIOREACTOR & FERMENTER

Key Features & Benefits	
No thread head plate ports:	Sanitary design
Ring and tripod stand design:	Very Stable
Ample headplate ports:	Flexible configurations
Superior single mechanical seal:	Simple to maintain
High quality FDA approved materials:	Sanitary and long life
Custom headplate & vessel configurations:	Flexible design
Standard vessel geometries:	Optimizes mixing & scaling

Specifications:

- Total Volume: 7.7L
- Working Volume: 5L @ H/
D=1.3
- Minimum Volume: 1L
- Jacketed Vessel: Hose barb w/ 4mm ID x 12mm OD
- Stainless Steel: 316L Electropolished Finish of Ra 32μ inch
- Stand: Aluminum rings with stainless steel legs
- Glass: Type 1 Class A Borosilicate Glass
- Heating Blanket: 7.25" x 24.25" (184mm x 616mm) 225W
- Elastomers: Silicone, meets 21 CFR 177.2600
- Ports: 10ports @ 10mm
8ports @ 18mm 1-center port for drive shaft
- Seal Type: Single mechanical
- Graduations: 1L to 5.5L in 500mL increments

Quotations for bioreactor systems are provided upon request. Contact cservice@bellcoglass.com or your local Bellco sales representative.



BIOREACTOR

15L METRIC BIOREACTOR & FERMENTER

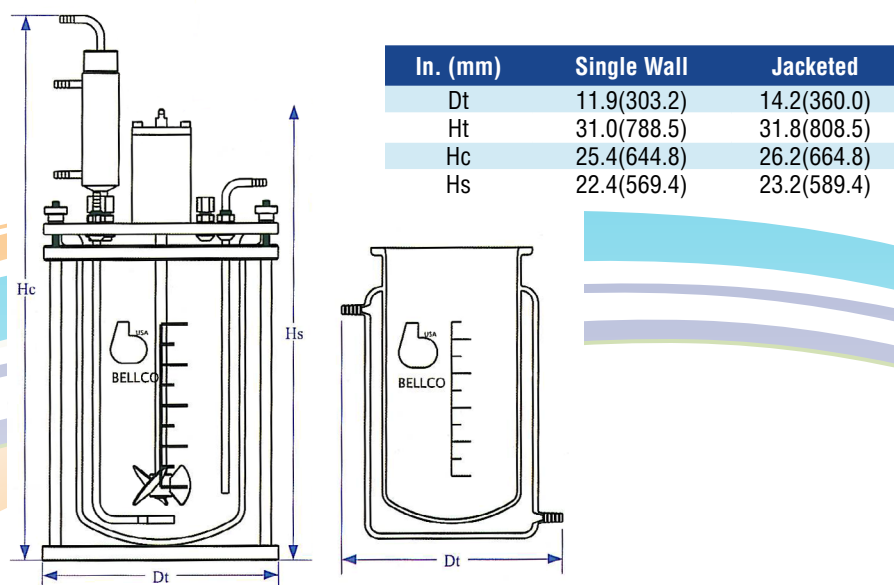
15L System for Mammalian Cell Culture & Fermentation

Key Features & Benefits	
No thread head plate ports:	Sanitary design
Ring and tripod stand design:	Very Stable
Ample headplate ports:	Flexible configurations
Superior single mechanical seal:	Simple to maintain
High quality FDA approved materials:	Sanitary and long life
Custom headplate & vessel configurations:	Flexible design
Standard vessel geometries:	Optimizes mixing & scaling

Specifications:

- Total Volume: 16.2L
- Working Volume: 10L @ H/D=1.2
- Minimum Volume: 1.5L
- Jacketed Vessel: Hose barb w/ 6mm ID x 12mm OD
- Stainless Steel: 316L Electropolished Finish of Ra 32 μ inch
- Stand: Aluminum rings with stainless steel legs
- Glass: Type 1 Class A Borosilicate Glass
- Heating Blanket: 9" x 31.75" (228.6mm x 806mm) 385W
- Elastomers: Silicone, meets 21 CFR 177.2600
- Ports: 12ports @ 10mm 8ports @ 18mm 1-center port for drive shaft
- Seal Type: Single mechanical
- Graduations: 2L to 11L in 1L increments

Quotations for bioreactor systems are provided upon request. Contact cservice@bellcoglass.com or your local Bellco sales representative.



Item Number	Description
7909-10015	15L Glass Vessel
7909-11015	15L Jacketed Glass Vessel
7909-15000	15L Headplate
7909-15051	Drive Seal Assembly
7909-15054	Rushton Impeller 3"
7909-15105	Pitch Blade Impeller 3.5" RH
7909-15106	Pitch Blade Impeller 3.55" LH
7909-10001	Marine Impeller 4" LH
7909-10002	Marine Impeller 4" RH
7909-00043	Bioreactor Stand
7909-00044	Split Flange Ring (for jacketed vessel)
7909-00001	DO and pH Probe Holder
7909-00002	Septum Assembly 13mm
7909-00006	Triple Inlet Assembly 3 Port
7909-15081	Condenser
7909-15091	Large Harvest Pipe Angled
7909-15007	Cooling Coil
7909-00012	Sample System
7909-00014	Adjustable Pipe Holder 1/4"
7909-15114	Adjustable Pipe Holder 1/8"
7909-15113	Harvest Pipe Straight
7909-15089	Thermowell
7909-15077	Baffle Assembly
7909-15090	Harvest Pipe Angled
7909-15052	Sparger Pipe w/ Stainless Steel Frit
7909-15053	Sparger Pipe w/ .040" Holes
7909-15006	Ring Sparger
7909-15108	Sample Pipe Angled
7909-15109	Sample Pipe Straight
7909-00028	Addition / Vent Port
7909-15110	Addition / Vent Port Large
7909-00030	Adjustable Pipe Holder 12mm
7909-00058	10mm Port Plug
7909-00059	18mm Port Plug
7909-00060	Liquid Addition Assembly
7909-15111	Level / Foam Assembly
1964-10000	Headplate Setup Stand
7909-25115	Heating Blanket 115v
7909-25230	Heating Blanket 230v
A555-376	#448 Silicone Headplate O-Ring

SINGLE CELLTROL PH DO TEMPERATURE

The CellTrol II can be configured to accept a variety of analog probe signals from a cell culture vessel. Standard signals include pH, dissolved oxygen, temperature, weight, redox, and tachometer feedback from the agitator. A digital input signal from a level probe can be used for anti-foam addition for level control.

The CellTrol II control module monitors bioreactor process valves and performs PLC (Allen-Bradley Programmable Logic Controller) based process control. A touch screen operator interface provides access to all based PLC control functions and allows viewing and modification of control parameters.

PLC control drives the inc/dec outlets assigned to each channel as well as to pumps mounted on the front of the unit. The pump assignments are user defined from the operator interface. Cell-Soft Software are also available, optional tethered speed drive, optional single support flow station and weight platforms are sold separately.

Item Number	Size	Case Qty
7804-11002	2 pumps	1
7804-11004	4 pumps	1
7804-11012	2 pumps	1
7804-11014	4 pumps	1
7805-11102	2 pumps	1
7805-11104	4 pumps	1
7805-11112	2 pumps	1
7805-11114	4 pumps	1

DUAL CELLTROL PH DO TEMPERATURE

The CellTrol II control module monitors bioreactors process values and performs PLC (Allen-Bradley Programmable Logic Controller) based process control. A touch screen operator interface provides access to all PLC based control functions and allows viewing and modification of control parameters. Signals types include temperature, pH, DO, speed, and foam/level.

PLC control drives the inc/dec outlets assigned to each channel as well as to pumps mounted on the front of the unit. The pump assignments are user defined from the operator interface. Cell-Soft Software are also available. Optional tethered speed drive, optional single support flow station and weight platforms are sold separately.

Item Number	Description	Size	Case Qty
7804-80200	–	2 pumps	1
7804-80420	–	4 pumps	1
7804-82200	–	2 pumps	1
7804-82224	For OHD Vessel	4 pumps	1
7804-82260	Foam 6 Pumps / No Weight	6 pumps	1
7804-82262	Foam 4 Pumps	4 pumps	1
7804-82400	Foam 4 Pumps	4 pumps	1
7805-20400	SP 4 Pumps	4 pumps	1
7805-20420	SP 4 Pumps, 2 Weight	4 pumps	1
7805-20620	SP 6 Pumps, 2 Weight	6 pumps	1
7805-22622	SP/FO 6 Pumps, 2 Weight	6 pumps	1

BIOREACTOR

CELLTROL SPEED CONTROL BOX TETHERED

7764-70300



Item Number	Description	Size	Case Qty
7805-01917	Manufactured from stainless steel Digital tech input 0-36 VDC power @ 15a 6' cable interface to CellTrol II"	12x12x16"	1

CELLTROL MOTOR 115V

Item Number	Size	Case Qty
7764-70300	115v	1

LOW SPEED CELLTROL MOTOR 10L 115V

Item Number	Size	Case Qty
7764-70400	115v	1

7764-7700

7764-73100



CELLTROL DRIVE STEM

Item Number	Description	Case Qty
7764-73100	CellTrol drive stem for 3L bioreactor	1
7764-77000	CellTrol drive stem for 7L bioreactor	1

CELLTROL DRIVE STEM

Item Number	Description	Size	Case Qty
7803-21600	Male end connector:6p Female end connector:6p Line cord: 20 awg type cl2 (ul) 300v"	6"	1

CELLTROL FOAM PROBE CABLE

Item Number	Size	Case Qty
7803-41655	10"	1

7805-80000



CELLTROL SPEED CABLE OVER HEAD DRIVE 115V

Item Number	Description	Case Qty
7805-80000	Cable used with over head drive that is compatible with the CellTrol II that has speed capability. Cable is included with the over head drive.	1

BIOREACTOR

LARGE FLANGE OMNI VESSELS 5L-36L FLAT & ROUND BOTTOM

Heavy walled construction for cell culture and fermentation applications. Heavy duty O-Ring flange creates positive seal. For use with stainless steel headplate, O-Ring, and locking clamp.

1964-88050



Item Number	Description	Size	Case Qty
1964-88050	5L Flat Bottom	215x250mm	1
1964-88080	8L Flat Bottom	238x400mm	1
1964-88150	15L Flat Bottom	292x440mm	1
1964-88360	36L Flat Bottom	410x515mm	1
1964-88405	5L Round Bottom	215x300mm	1
1964-88408	8L Round Bottom	238x445mm	1
1964-88415	15L Round Bottom	292x500mm	1
1964-88436	36L Round Bottom	410x550mm	1

FLASK CARRIER

Stainless steel bottom base for extra strength includes four rubber feet for added stability. Carriers are dishwasher and oven safe. For use with 6L or 9L vessels or carboys.

7669-06000



Item Number	Description	Size	Case Qty
7669-06000	stainless steel	9x8" 6L	1
7669-08000	stainless steel	10 3/4" x9" 8L	1
7669-15000	stainless steel	2x11" 15L	1
7669-36000	stainless steel	17X13" 36L"	1

LARGE FLANGE VESSEL STAND 5L - 36L

Stainless steel stand for round bottom large flange omni vessels

7669-00005



Item Number	Description	Size	Case Qty
7669-00005	5L Omni Vessels	16.5x12"	1
7669-00008	8L Omni Vessels	18x14"	1
7669-00015	15L Omni Vessels	19.5x14"	1
7669-00036	36L Omni Vessels	24x14"	1

- Heavy duty 316L stainless with locking clamp
- Silicone cushion protects glass vessel
- Four legs provides stability

COOLING VALVE

Supplied with:

- Plastic hose connector (1 per valve)
- Push fitting (1 per valve)
- M3 x 5 screw & #5 int.
- Lock-washer (2 per valve)
- (1) Stainless Steel base plate
- (4) Rubber feet
- (1) Solenoid valve sub-assembly

7808-01001

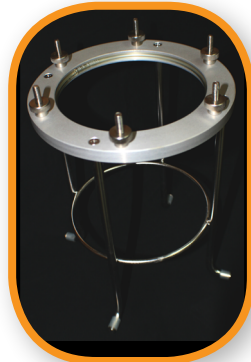


Item Number	Size	Case Qty
7808-01001	115v	1
7808-01002	115v	1
7808-01003	115v	1
7808-02001	230v	1
7808-02002	230v	1
7808-02003	230v	1

BIOREACTOR

BIOREACTOR STAND WITH BOLTS

7669-00003



Item Number	Description	Case Qty
7669-00003	Bioreactor Stand with 6 Bolts for 3L bioreactor	1
7669-00007	Bioreactor Stand with 6 Bolts for 7L bioreactor	1
7669-00010	10L Bioreactor Stand	1

METRIC BIOREACTOR STAND

7909-00043



Vessel stand for water jacketed metric bioreactor vessel has unique split ring design to fit around jacket and hose barbs. Manufactured from aluminum and stainless steel for durability and ease of cleaning. Bottom ring insures stability of vessel during operation.

Item Number	Description	Size	Case Qty
7909-00019	3L	10 7/8"	1
7909-00043	7L	-	1
7909-15088	15L	12 3/8"	1

BIOREACTOR VESSEL

7909-10003



Round bottom bioreactor vessel is manufactured of Type 1 Class A Borosilicate Glass. Graduations are 500mL to 2500mL every 500mL.

Item Number	Description	Size	Case Qty
7909-10003	3L	145x267mm	1
7909-10007	7L	180x355mm	1
7909-10015	15L	240x445mm	1

WATER JACKETED BIOREACTOR VESSEL

7909-11003



- Round bottom bioreactor vessel is manufactured of Type 1 Class A Borosilicate Glass
- Graduations are 500mL to 2500mL every 500mL
- Full range of accessories are available for this vessel

Item Number	Description	Size	Case Qty
7909-11003	3L	145x267mm	1
7909-11007	7L	225x375mm	1
7909-11015	15L	300x415mm	1

BIOREACTOR

BIOREACTOR HEATING BLANKET

The blanket has velcro closures for easy setup and a 6 power cable with IEC 60320 C14 plug.

7909-23115



BELCO HEATING BLANKET

Male IEC connector for use with temperature controller and RTD sensor. Heating at 5 watts per square inch.

1964-55005



VALLEY INSTRUMENTS HEATING BLANKETS

Heating Blankets are designed to be used with a temperature controller and RTD temperature sensor for heating media inside a vessel to temperature.

1964-51007



Item Number	Description	Case Qty
7909-23115	3L Heating Blanket, 115V Bioreactor	1
7909-23230	3L Heating Blanket 230V Bioreactor	1
7909-25115	15L Heating Blanket 115V Bioreactor	1
7909-25230	15L Heating Blanket 230V Bioreactor	1
7909-27115	7L Heating Blanket 115V Bioreactor	1

Item Number	Description	Size	Case Qty
1964-55005	115v 500mL 50 watts	1x10.5"	1
1964-55010	115v 1L 75 watts	1x14"	1
1964-55030	115v 3L 150 watts	2x17.5"	1
1964-55060	115v 6L 300 watts	3x22"	1
1964-55080	115v 8L 375 watts	3x26.5"	1
1964-55150	115v 15L 750 watts	5x33"	1
1964-55360	115v 36L 1200 watts	5x48"	1
1964-56005	230v 500mL 50 watts	1x10.5"	1
1964-56010	230v 1L 75 watts	1x14"	1
1964-56030	230v 3L 150 watts	2x17.5"	1
1964-56060	230v 6L 300 watts	3x22"	1
1964-56080	230v 8L 375 watts	3x26.5"	1
1964-56150	230v 15L 750 watts	5x33"	1
1964-56360	230v 36L 1200 watts	5x48"	1
1964-57150	115v 15L 325 watts	5x33"	1
1964-57360	115v 36L 375 watts	5x48"	1
1964-57365	115v 36L 600 watts	5x48"	1
1964-58150	230v 15L 325 watts	5x33"	1
1964-58360	230v 36L 375 watts	5x48"	1
1964-58365	230v 36L 600 watts	5x48"	1

Item Number	Watts	Size	Case Qty
1964-51005	50	10 1/2" x 1 1/2"	1
1964-51007	180	22" x 2"	1
1964-51010	75	13 3/4" x 1 1/2"	1
1964-51030	150	17 1/2" x 2"	1
1964-51040	190	26 1/2" x 2"	1
1964-51060	300	22" x 3"	1
1964-51080	375	26 1/2" x 3"	1
1964-51360	1200	48" x 5"	1

BIOREACTOR

HEAT COIL

Heating and cooling coils are used for cell culture temperature manipulation within the bioreactor vessel. Must be hooked up to a water circulating mechanism for heating or cooling.

Item Number	Description	Size	Case Qty
1964-50115	Heat / Cool Coil 15L 316L electropolished stainless steel for cell culture temperature manipulation Od x oal: 3 1/4 x 22" #Turns: 5 1/2 Fits through 100mm cap assembly or large flange headplate	3 1/4"x22"	1
1964-50136	Extended Heat / Cool Coil 36L Flask size: 3L bioreactor vessel (1964-88403) Dimensions: 15 x 2.5 tall with 1 latch Watts: 130 heating @ 5 watts per sq inale iec connector for use with temperature controller - 6ft cord (18-2) with cj14 plug	15x2.5"	1

STAINLESS STEEL BIOREACTOR HEADPLATE

Manufactured from 316L stainless steel with Ra 32 finish or better inside and out. Fittings are sold separately as part of the system.

1964-88503

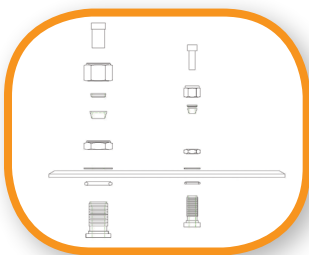


Item Number	Description	Case Qty
1964-88503	3L	1
1964-88507	7L	1

LARGE FLANGE HEADPLATE ASSEMBLY

Universal headplates can fit 5L to 36L vessels. Headplates are used with the large flange vessel to seal and to provide ports for access to the interior of the vessel. The 18-port headplate is most used since more components can be fitted into its ports. The impeller is always positioned in the center drive port and a variety of components, probes, harvesting tubes, and thermowells can be added as needed. Headplates and all stainless steel components of the bioreactor systems are electropolished to seal the surface against bacterial contamination that might occur with a rough surface. Includes red silicone O-Ring and 200mm t-bolt clamp.

1964-88505 Model



Item Number	Description	Case Qty
1964-88505	10 Holes 6@ 1/4 od 4@ 1/2" od 1 center for drive motor 1964-90115 1/4" compression fitting 1964-90120 1/2" compression fitting 1964-90125 5/16" compression fitting (Thermowell) O-Ring replacements (per mg 9/16) A554-30 6 each A554-42 4 each A554-13 1 each	1
1964-88510	18 Holes 6@ 1/4" od 4@ 1/2" od 1 center for drive motor 1964-90115 1/4" compression fitting 1964-90120 1/2" compression fitting 1964-90125 5/16" compression fitting (Thermowell) O-Ring replacements (per mg 9/16) A554-30 6 each A554-42 4 each A554-13 1 each	1

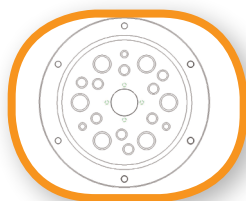
- 200mm large flange headplate 10-port

BIOREACTOR

METRIC HEADPLATE

- Material: 316L stainless steel
- Top finish: 400 mirror polish
- Bottom finish: RA32 electropolish
- Dimensions: 12" OD x 3/8" thick
- Number of holes: 20
- Hole design:

7909-30000
Model



Item Number	Description	Size	Case Qty
7909-30000	Metric Head Plate 3L	8x3/8"	1
7909-70000	Metric Head Plate 7L	9¾x 3/8"	1
7909-15000	Metric Head Plate 15L 20 Holes	12x3/8"	1

- 10mm hole: 12
- 18mm hole: 8
- Supply with a 555-376 – #448 O-Ring

HEADPLATE BIOREACTOR STAND SETUP

Headplate setup stand is for hands-free assembly of bioreactor headplates.

Manufactured from aluminum and measures 8"x8"x3" assembled. Headplate is inserted into the slot on the stand and secured into place with thumbscrews. It holds any headplate up to 6mm thick.

1964-10000



Item Number	Description	Size
1964-10000	Material: Aluminum	Size: 8"x8"x3"

1964-88803



1964-88810



SILICONE HEADPLATE O-RING

- Material: red silicone rubber
- Dimensions: OD x ID: 5.762"x 0.139" thick

Item Number	Description	Size	Case Qty
1964-88803	for 3l bioreactor systems	#254	1
1964-88807	for 7l bioreactor systems.	#264	1
1964-88810	for 10l bioreactor systems.	#274	1

LH PITCH BLADE IMPELLER

Stainless steel pitch blade impeller with left hand oriented blades 2"OD. Assemble one or more impellers into 3L – 15L drive shaft for mammalian cell culture.

7909-00032



Item Number	Description	Size	Case Qty
7909-00032	3L	2"	1
7909-00034	7L	2 ¾"	1
7909-15106	15L	3 ½"	1

BIOREACTOR

RH PITCH BLADE IMPELLER

Stainless Steel pitched blade impeller with right hand oriented blades.

- Assemble one or more impellers onto 3L-15L drive shaft for mammalian cell culture
- 316L stainless steel construction

7909-00016
Model



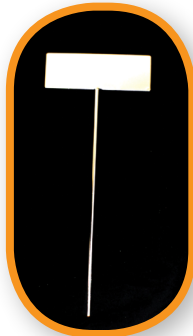
Item Number	Description	Size	Case Qty
7909-00016	3L	2"	1
7909-00033	7L	2 3/4"	1
7909-15105	15L	3 1/2"	1

- Ra finish 32 micro inch or better

ROUND BOTTOM MARINE IMPELLER 1964-88152

316L Stainless Steel Marine Impeller Complete for Round Bottom Vessels.

- Stainless steel 4" OD right hand pitch marine prop and e-clip
- Material: 316L stainless steel with electropolish finish
- For round bottom omni vessel (1964-88405)
- Need l/f head plate, over head drive motor

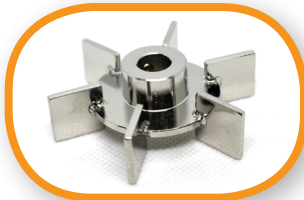


Item Number	Description	Size	Case Qty
1964-73005	Dimensions: 1/2" od x 7 1/2" long	1/2 x 7 1/2"	1
1964-73008	Dimensions: 1/2" od x 12 1/2" long Size: 8L	1/2 x 12 1/2"	1
1964-73015	Dimensions: 1/2" od x 14 1/2" long	1/2 x 14 1/2"	1
1964-73036	Dimensions: 1/2" od x 16 1/2" long Size: 36L"	1/2" x 16 1/2"	1
1964-88152	Shaft: 14 1/2"	1/2 x 14 1/2"	1

RUSHTON IMPELLER ASSEMBLY 7909-00040

Rushton impeller 2"OD with 6 vertical blades equally spaced around the center hub. Manufactured

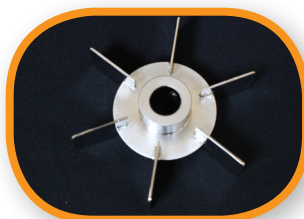
from stainless steel and designed for high speed fermentation protocols. Assembled onto 3L metric bioreactor drive stem.



Item Number	Description	Size	Case Qty
7909-00005	3L	2" x .7031"	1
7909-00040	7L	2.5"	1
7909-15054	15L	3"	1

VERTICAL DISK IMPELLER 1964-02100

- For bioreactor systems
- English threads
- Material: 316L Stainless Steel with electropolish finish



1964-02300



Item Number	Description	Size	Case Qty
1964-02080	Vertical Disk Impeller 3L 2 1/4"	2 1/4"	1
1964-02100	Stainless Steel Vertical Disk Impeller 10L	3 1/4"	1
1964-02300	Vertical Disk Impeller 7L	2 3/4"	1

BIOREACTOR

STAINLESS STEEL HI-TORQ OVER HEAD DRIVE IMPELLER FULL & SHORT WIDTH

- Material: 316L stainless steel RA 32 finish or better inside and out
- Includes: dust shield, impeller shaft folding paddle
- Locking ring secures paddle in horizontal position

Item Number	Description	Size	Case Qty
1964-74008	8L Full Width	3 x 8"	1
1964-74015	15L Full Width	3 x 9"	1
1964-74036	36L Full Width	3 x 14"	1
1964-74108	8L Short Width	3 x 6"	1
1964-74115	15L Short Width	3 x 7 1/2"	1
1964-74136	36L Short Width	3 x 12"	1

1964-74008



1964-74015



1964-74036



1964-74108



STAINLESS STEEL HI-TORQ OVER HEAD DRIVE IMPELLER FULL & SHORT WIDTH

- Material: 316L Stainless Steel RA 32 finish or better inside and out
- Includes: dust shield, impeller shaft folding paddle
- Locking ring secures paddle in horizontal position

Item Number	Description	Size	Case Qty
1964-60003	Assembly 3L Full Width	3 x 5 1/4"	1
1964-60006	Assembly 6L Full Width	3 x 6 3/4"	1
1964-60008	Assembly 8L Full Width	3 x 8"	1
1964-60015	Assembly 15L Full Width	3 x 9"	1
1964-60036	Assembly 36L Full Width	3 x 14"	1
1964-60106	Assembly 6L Short Width	3 x 5 1/4"	1
1964-60108	Assembly 8L Short Width	3 x 6"	1
1964-60115	Assembly 15L Short Width	3 x 7 1/2"	1
1964-60136	Assembly 36L Short Width	3 x 12"	1

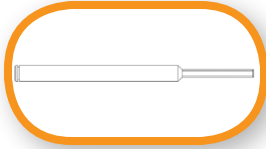
1964-60003



1964-60036



7764-76205
Model



STAINLESS STEEL MARINE SHAFT WITH CLIP

- Manufactured from 316L stainless steel with electropolish finish.

- Includes: e-clip for mounting marine prop (1964-73000)

Item Number	Description	Size	Case Qty
7764-76205	Only 5L with Clip	½ x 7 ½"	1
7764-76208	Only 8L with Clip	½ x 12 ½"	1
7764-76215	Only 15L with Clip	½ x 14 ½"	1
7764-76236	Only 36L with Clip	½ x 16 ½"	1

1964-02310



STAINLESS STEEL PITCH BLADE IMPELLER 7L

- 316L Stainless Steel
- Ra 32 finish or better

Item Number	Case Qty
1964-02310	1

1964-03401

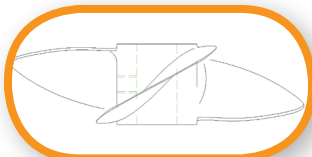


LOW PROFILE STAINLESS STEEL IMPELLER 3L IMPELLER 7L

- Stainless steel 3L low profile impeller assembly
- for low profile OHD vessel
- Material: SST 316L
- Electropolished finish, Ra 32 or better
- Fully assembled

Item Number	Size	Case Qty
1964-03401	Paddle dimensions 2" t x 5 1/4" w	1

1964-73000



4 MARINE PROP WITH 1/2" BORE IMPELLER 7L

4" OD 316L Stainless Steel, Ra 32 finish or better

Item Number	Size	Case Qty
1964-73000	4"	1

7807-11512



PUMP DRIVE

Must order the pump head to complete (7807-10000)

Item Number	Description	Size	Case Qty
7807-11501	Pump Drive Only 1rpm 115v	6 x 4 x 4.4"	1
7807-11506	Pump Drive Only 6rpm 115v	6 x 4 x 4.4"	1
7807-11512	Pump Drive Only 12rpm 115v	6 x 4 x 4.4"	1
7807-23001	Pump Drive Only 1rpm 230v	6 x 4 x 4.4"	1
7807-23005	Pump Drive Only 5rpm 230v	6 x 4 x 4.4"	1
7807-23010	Pump Drive Only 10rpm 230v	6 x 4 x 4.4"	1

BIOREACTOR

EASY PUMP HEAD ONLY

Masterflex pump is used with bioreactor or spinner flasks to add or withdraw fluids. It is small compact and stack-able power indicator.

Includes pump head (7807-10000) and pump drive (7807-11501). Head accepts 13, 14, 16, 17, 18 and 25ft tubing.

- 6 pump drives to choose from (operating),
 - 115v choices: 1, 6,12 rpm 4 9/16" x5 13/16" x2 13/16" (open)
 - (see 7807-11501,11506,11512)
 - 230v choices: 1, 5,10 rpm (see 7807-23001,23005,23010)
 - Pump material: polysuflone (psf)
 - Roller/bearing materials: cold rolled steel (crs) @1rpm ml/Rev Contin.psig (bar) interm. psig (bar)
 - Occulsion: fixed
 - Shaft length: short
 - Operating temperature: 32°F to 104F (0°C to 40°C)
 - Humidity: 0 to 90% (non-condensing)
 - Number of rollers: 3
 - Max pump speed (rpm): 600
 - Nominal torque load-running: up to 90 oz-in (6.5 kg-cm)
 - Dimensions: (wxhxd); 4 9/16" x 4"x2 3/16"
- | | 13 | 14 | 16 | 17 | 18 | 24 | 25 |
|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.06 | 0.21 | 0.80 | 2.8 | 3.8 | 1.7 | 2.8 | 1.7 |
| 25 (1.7) | 25 (1.7) | 25 (1.7) | 15 (1.0) | 10 (1.0) | 25 (1.7) | 25 (1.7) | 20 (1.4) |
| 40 (2.7) | 40 (2.7) | 40 (2.7) | 20 (1.4) | 15 (1.4) | 40 (2.7) | 40 (2.7) | 35 (2.4) |

Item Number	Case Qty
7807-10000	1

AIR SUPPLY PUMP 115V IMPELLER 7L

The Bellco air supply pump is suitable to maintain two chambers. Its supplies filtered air to CO2 incubators.

7725-00120



Item Number	Size	Case Qty
7725-00120	5 1/2 x 4 1/4"	1

MASTERFLEX LOW SPEED PERISTALTIC PUMP

Master-flex pump is used with bioreactor or spinner flasks to add or withdraw fluids. It is small, compact and stack able with a power indicator. Includes pump head (7807-10000) and pump drive (7807-11501). Head accepts 13, 14, 16, 17, 18 and 25ft tubing.

Item Number	Description	Size	Case Qty
7807-01115	1 rpm 115v	11.8 x 13.4 x 15.2 + 6.4cm	1
7807-01230	1 rpm 230v	11.8 x 13.4 x 15.2 + 6.4cm	1
7807-05230	5 rpm 230v	11.8 x 13.4 x 15.2 + 6.4cm	1
7807-06115	6 rpm 115v	11.8 x 13.4 x 15.2 + 6.4cm	1
7807-10230	10 rpm 230v	11.8 x 13.4 x 15.2 + 6.4cm	1
7807-12115	12rpm 115v	11.8 x 13.4 x 15.2 + 6.4cm	1

BROADLY JAMES pH PROBE WITH HP CABLE

The Fermprobe pH electrode with s8 metric cap features a standard s8 detachable cable connector on a metric threaded polymer cap. The design requires the rotation of the electrode during installation. This style of pH Fermprobe is the first choice for small autoclavable bench-top vessels. All Fermprobe pH electrodes are designed to be used in bio-process applications where clean in place sterilize in place CIP, SIP procedures are used.



Item Number	Size	Case Qty
7803-22540	3"	1
7803-22550	6"	1
7803-22560	10"	1

Built to withstand repeated steam sterilization cycles the Fermprobe quickly stabilizes after steam exposure to be on line in half the time of other electrodes. This rugged low-impedance pH electrode continues to provide fast and precise measurement.

design requires the rotation of the electrode during installation. This style of pH Fermprobe is the first choice for small autoclavable bench-top vessels. All Fermprobe pH electrodes are designed to be used in bio-process applications where clean in place sterilize in place CIP, SIP procedures are used.

BROADLY JAMES pH FERMPROBE®

The Fermprobe pH electrode with s8 metric cap features a standard s8 detachable cable connector on a metric threaded polymer cap. The design requires the rotation of the electrode during installation this style of pH. Fermprobe is the first choice for small autoclavable bench-top vessels.

All Fermprobe pH electrodes are designed to be used in bio-process applications where clean in place sterilize in place cipsip procedures are used. Built to withstand repeated steam sterilization cycles the Fermprobe quickly stabilizes after steam exposure to be on line in half the time of other electrodes. This rugged low-impedance pH electrode continues to provide fast and precise measurement.

Item Number	Size	Case Qty
7803-22300	Mounting Diameter: 12mm Insertion Length: 225mm	1
7803-22500	Mounting Diameter: 12mm Insertion Length: 120mm	1
7803-22510	Mounting Diameter: 12mm Insertion Length: 200mm	1
7803-22520	Mounting Diameter: 12mm Insertion Length: 325mm	1
7803-22530	Mounting Diameter: 12mm Insertion Length: 420mm	1

- Metric Pg13.5 threaded disconnect cap
- pH Range: 0..13
- Steam sterilizable to 135°C
- 150 psig max. pressure
- Double junction, Ag-AgCl reference system

BROADLY JAMES OXYPROBE DO PROBE

The OxyProbe 12mm dissolved oxygen sensors offer the most rugged and versatile design for benchtop vessels the compact profile saves space and will fit directly into any port with standard compression fittings or threads. The small diameter facilitates DO measurement in small volumes such as spinner flasks and bottles. The polarographic sensor utilizes a long silver anode and small cathode (per the industry standard), it also uses the same gas permeable silicone PTFE composite membrane. Reinforced with stainless steel mesh the OxyProbe withstands steam in place and caustic clean in place applications. FDA compliant O-Rings are on all product contact surfaces.

Item Number	Size	Case Qty
7803-31330	12 x 120mm	1
7803-31340	12 x 220mm	1
7803-31350	12 x 320mm	1
7803-31360	12 x 420mm	1

7803-31330



BROADLY JAMES D4 LEMO DO PROBE CABLE

The Broadley James D4-Lemo DO cable connector on a metric threaded polymer cap. The design requires the rotation of the electrode during installation. This style of pH Fermprobe is the first choice for small autoclavable bench-top vessels. All Fermprobe pH electrodes are designed to be used in bio-process applications where clean in place sterilize in place cip sip procedures are used. Built to withstand repeated steam sterilization cycles the Fermprobe quickly stabilizes after steam exposure to be on line in half the time of other electrodes this rugged low-impedance pH electrode continues to provide fast and precise measurement.

Item Number	Description	Size	Case Qty
7803-31470	D4-Lemo 3 DO Cable 3"	3"	1
7803-31480	DO Cable, D4-Lemo 3, 6"	6"	1
7803-31490	DO Cable, D4-Lemo 3, 10"	10"	1

7803-31470



METTLER INGOLD pH PROBE & CABLE

7803-21550



The OxyProbe 12mm dissolved oxygen sensors offer the most rugged and versatile design for benchtop vessels. The compact profile saves space and will fit directly into any port with standard compression fittings or threads. The small diameter facilitates DO measurement in small volumes such as spinner flasks and bottles.

The polarographic sensor utilizes a long silver anode and small cathode (per the industry standard), and uses the same gas permeable silicone (PTFE) composite membrane reinforced with stainless steel mesh. The OxyProbe withstands steam in place, and caustic clean in place. Applications FDA compliant O-Rings are on all product contact surfaces.

Item Number	Description	Size	Case Qty
7803-21300	Probe and pH Cable	12x225mm	1
7803-21500	Probe	12 x 120mm	1
7803-21510	Probe	12 x 200mm	1
7803-21520	Probe	12 x 325mm	1
7803-21530	Probe	12 x 425mm	1
7803-21540	pH Cable	3"	1
7803-21550	pH Cable	6"	1
7803-21560	pH Cable	10"	1

METTLER INGOLD pH PROBE WITH VP CONNECTOR

- Low-maintenance pH-electrodes
- With vario pin connection
- pH range 012
- Temperature range 140°C
- Pressure resistance bar up to 4 bar over-pressure
- Pressure resistance psi up to 58psi over-pressure
- Diaphragm ceramic

Item Number	Size	Case Qty
7803-22120	12 x 120mm	1
7803-22225	12 x 225mm	1
7803-22325	12 x 325mm	1
7803-22425	12 x 425mm	1

- Number of diagram 1
- Reference system argentinal system
- Silver ion trap yes
- Sterilizable yes
- Autoclavable yes
- Ism yes

METTLER INGOLD DO PROBE PTFE

- Cathode platinum
- Anode silver
- Polarization 675mv
- Output 40 to 70na in air at 25°C
- Temperature 0 to 6°C sterilization to 130°C
- Stability 2 or readout per week at constant pressure temp 30°C
- Linearity better than 03 of readout
- Pressure 60psi maximum
- Connector 4 pin Bendix
- Material welded parts 316L stainless steel

Item Number	Size	Case Qty
7803-31535	12 x 120mm	1
7803-31545	12 x 220mm	1
7803-31555	12 x 320mm	1
7803-31565	12 x 420mm	1

METTLER INGOLD DO PROBE PTFE WITH VP CONNECTOR

- Measurement principle: Amperometric/ polarographic
- Pressure resistance measurement: 0.2 – 6 bar absolute
- Mechanical pressure resistance: max. 12 bar (174.0 psi) absolute
- Measuring temperature range: 0 – 80°C (32 – 176°F)
- Temperature range: -5 – 140°C (23 – 284°F)
- Temperature compensation: automatic with built in Rtd
- Cable connection: vario pin (ip68)
- O-Ring material: vitron, silicone (FDA approved)
- Membrane material: Teflon / silicone / Teflon (reinforced with steel mesh)
- Quick disconnect interior body: standard

Item Number	Size	Case Qty
7803-32120	12 x 120mm	1
7803-32225	12 x 225mm	1
7803-32325	12 x 325mm	1
7803-32425	12 x 425mm	1

- Cathode: pt
- Anode: ag
- Guard ring: no
- Detection limit: 6ppb
- Accuracy: 1% or 4ppb
- Response time @25°C (air to n2): 98% of final value <90s
- Sensor signal in ambient air (25°C): 40 – 110na
- Residual signal in oxygen-free medium: <0.1% of the signal in ambient air.
- Max. Flow error: less than or equal to: 5%
- Certification: ehedg, 3a, 3.1b (en 10204.3.1b)

FOAM PROBE FITTING

Item Number	Size	Case Qty
7803-41630	½"	1

PTFE FERULE FOR FOAM PROBE

Item Number	Size	Case Qty
7803-41640	½"	1

FOAM LEVEL CABLE

Item Number	Description	Size	Case Qty
7803-41650	for 500 Series Controller	10"	1

CELLTROL FOAM PROBE CABLE

Item Number	Size	Case Qty
7803-41655	10"	1

BIOREACTOR

HAMILTON EASYFERM + K8 pH PROBE ONLY WITH VP CONNECTOR 7808-22425

Dissolved oxygen and pH electrodes are the eyes and ears for many biotechnology processes. High quality sensors are required for critical measurement and Hamilton sensors are some of the finest in the world. Bellco offers Hamilton gel-filled pH and stainless steel polarographic dissolved oxygen sensors with the standard 4 pin T82 K8 and vp style connectors in 120 to 425 mm lengths.



Item Number	Size	Case Qty
7808-21220	12 x 120mm	1
7808-21200	12 x 200mm	1
7808-21225	12 x 225mm	1
7808-21325	12 x 325mm	1
7808-21425	12 x 425mm	1
7808-22120	12 x 120mm	1
7808-22225	12 x 225mm	1
7808-22325	12 x 325mm	1
7808-22425	12 x 425mm	1

HAMILTON OXYFERM DO PROBE ONLY WITH VP CONNECTOR 7808-31325

Dissolved oxygen DO and pH electrodes are the eyes and ears for many biotechnology process high quality sensors are required for critical measurement and Hamilton sensors are some of the finest in the world. Bellco offers Hamilton Gel-Filled pH and stainless steel polarographic dissolved oxygen sensors with the standard 4 pin T82 K8 and VP style connectors in 120 to 425 mm lengths.



Item Number	Description	Size	Case Qty
7808-31120	Probe	12 x 120mm	1
7808-31225	Probe	12 x 225mm	1
7808-31325	Probe	12 x 325mm	1
7808-31425	Probe	12 x 425mm	1
7808-32120	Probe with VP	12 x 120mm	1
7808-32225	Probe with VP	12 x 225mm	1
7808-32325	Probe with VP	12 x 325mm	1
7808-32425	Probe with VP	12 x 425mm	1

7808-32000



HAMILTON DO PROBE MEMBRANE KIT

Item Number	Description	Case Qty
7808-32000	DO membrane kit	1

FOAM LEVEL PROBE 7803-41590

Foam Level Probes are used in fermentation bioreactors to detect the presence of foam or the liquid level within the bioreactor vessel. When the foam level or liquid level reaches the tip of the probe, a conductance path is created for the probe to trigger the controller to react and introduce anti-foaming agent.



Item Number	Size	Case Qty
7803-41590	1/2 x 6"	1
7803-41600	1/2 x 12"	1
7803-41610	1/2 x 18"	1
7803-41620	1/2 x 24"	1

BIOREACTOR

STAINLESS STEEL PROBE ADAPTER EXTENSION

316L stainless steel probe adapter extension, threaded.

1964-91000



Item Number	Description	Size	Case Qty
1964-91000	Probe Adapter-old HP 1.5 Ext NPT Thread"	1 ½"	1
1964-91005	Probe Adapter 1.7"	1.7"	1
1964-92005	Probe Adapter 2.5"	2 ½"	1
1964-92010	Probe Adapter 3.25"	3 ¼"	1

PROBE HOLDER

Includes GL32 blue open top polypropylene cap and white silicone gasket. The probe holder is designed specifically for the bio-probe low volume spinner flask. Also designed to secure pH and DO probe into 32mm sidearms.

1965-97010



Item Number	Description	Size	Case Qty
1965-97010	-	32mm	1
1964-21580	Vertical 45mm Sidearms	12mm	1

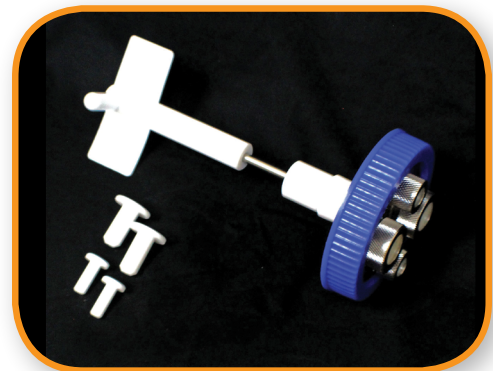
STAINLESS STEEL PROBE CAP-SEAL WITH PTFE IOB

The stainless steel 100mm IOB probe cap seal is manufactured from 316L stainless steel and has a red-silicone sealing gasket with a 100mm blue polypropylene screw cap. The stainless steel probe cap seal has four accessory ports surrounding a centrally located internal impeller assembly.

Two of these ports have a white silicone plug inside a threaded cap that acts as a compression fitting for probe insertion. The other ports accept accessories using the same silicone compression plugs and threaded caps. These compression plugs make it easy to adjust the insertion length of probes or straight tubes depending upon the working volume of the bioreactor flask. The stainless steel cap seal, stainless steel PTFE impeller and all fittings are steam autoclavable.

Item Number	Description	Size	Case Qty
1965-60014	4 Ports	1L	1
1965-60034	4 Ports	3L	1

1965-60014



BIOREACTOR

POLARIZER TESTER

Verifies status of DO probe Polarizer High-Good-Low.

Item Number	Case Qty
7803-31700	1

DO POLARIZER STATION

Item Number	Size	Case Qty
7803-31720	115v	1

DO PROBE POLARIZER

Maintain dissolved levels to set point values and introduce oxygen or nitrogen as needed

Item Number	Case Qty
7803-31690	1

DO TESTER CABLE

Maintain dissolved levels to set point values and introduce oxygen or nitrogen as needed

Item Number	Size	Case Qty
7803-31755	12"	1

PROBE REPLACEMENT (INNER BODY) NEW STYLE PROBES

The PTFE and silicone membrane with integrated stainless steel mesh support, greatly enhances durability. It also extends expected membrane life and can be easily and quickly replaced without the need for tools. The most common problem seen over a period of time with DO sensors is the degradation of the membrane. This results in slow response time, drift, and inaccurate readings. The membrane and electrolyte are exposed to multiple sterilization cycles, physical impact, harsh solutions and clogged organic compounds. All of which result in normal wear and tear, resulting in replacement.

Item Number	Case Qty
7803-31670	1

GLASS PROBE CHAMBER

-Glass chamber with hose connections and compression fitting for 12mm OD probes.
Used with any 12mm OD probes – to measure parameters from process such as an off line pH.

- Type 1 Borosilicate Glass Chamber
- Two Hose Barb Connections
- Replacement Cap: A12-1123
- Replacement Gasket: A12-1124
- Dimensions Approx. 35mm X 25mm OD
- Cap Material Hi-Temperature (PBT)

Item Number	Size	Case Qty
7808-00012	12mm	1

7808-00012



BIOREACTOR KITS & ACCESSORIES

O-RING REPLACEMENT KIT

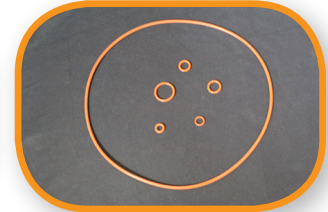
- Size: 3L - 10L
- A523-234 is for 3/8" accessories
- A523-407 is for 1/4" accessories
- A542-522 is for 5/16" Thermowell
- A542-521 is for 3/4" accessories
- A542-523 is the inner O-Ring for the probe holder
- 1964-88803 is the headplate O-Ring

Item Number	Size	Case Qty
1964-96000	3L	1
1964-96010	10L	1
1964-96070	7L	1

1964-96010



1964-96070



BCS STARTER KIT

Item Number	Case Qty
1964-00010	1

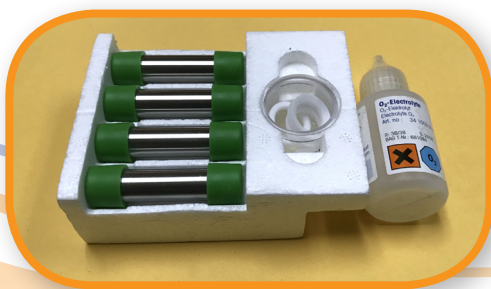
DO & pH SIMULATOR KIT

- Simulates pH and DO conductance readings.
- Test for pH and DO probe function and troubleshooting.

Item Number	Case Qty
7803-21570	1
7803-22570	1

DO MEMBRANE KIT

7803-31620



Item Number	Description	Size	Case Qty
7803-31620	Membrane replacement kits for do probes: 7803-31530 7803-31540 7803-31550 7803-31560	12mm	1
7803-31625	T-96 membrane replacement kit for: 7803-31625 7803-31535 7803-31545 7803-31555 7803-30565	12mm	1
7803-31635	DO Probe Membrane Kit Mettler A Type	n/a	1

BIOREACTOR

GAS LIQUID ADDITION ASSEMBLY

Glass liquid addition assembly for use on 45mm side arms. Assembly simply screws on and seals with a silicone liner.

- One glass addition tube
Type 1 Class A Borosilicate
- One compression cap
- One front and rear nylon ferrule
- One compression fitting
- One blue pp screw cap and white silicone liner



Item Number	Description	Size	Case Qty
1964-00045	for Vertical Sidearm Vessels	45mm	1
7909-00060	for 18mm Port	18mm	1

GLASS FILTER TUBE ASSEMBLY

Assembly attaches to a bioreactor vessel or culture vessel.



Item Number	Description	Case Qty
1964-88600	for Omni Vessels	1

COLDFINGER ASSEMBLY

Used to generate a localized cold surface on the exterior of the finger. Commonly used for sublimation, and can also be used in reflux or distillation operations.



Item Number	Size	Case Qty
1964-02070	3L	1
1964-02075	7L	1

COOLING FINGER ASSEMBLY

Stainless steel cooling finger with internally placed water in and water out tubes that help to maintain internal bioreactor temperature.

- Fits into 18mm port on 3L metric headplate
- 316L Stainless Steel
- Electropolish Finish



Item Number	Size	Case Qty
7909-00011	3L	1
7909-00036	7L	1

BIOREACTOR

TRIPLE & QUAD UNIVERSAL ADDITION ASSEMBLY

1964-03250



Manufactured from 316L stainless steel with electropolish finish Ra 32 or better inside and out. Used for GL45 sidearms. Includes polypropylene blue open top screw cap and white silicone liner.

- Individual ports for liquid additions or redundant vent overlay vsa vessels for acid.
- Supply with PP blue open top screw cap and white silicone liner
- All tubes: 1/4" OD x 4 1/4" long

Item Number	Description	Size	Case Qty
1964-03250	Triple Addition Assembly	45mm Universal	1
1964-04125	Quad Addition Assembly	45mm Universal	1

BAFFLE ASSEMBLY

316L stainless steel baffle assembly for use on large flange bioreactor vessel system. Attaches to the head plate. used to change the mixing characteristics within the bioreactor.

- Size: 3L
- Baffle shaft: .250" OD x 6 1/4" long (1/4-28 tpi thread)
- Baffle plate: .625" OD x 7" long x .090" thick : 9 1/8"
- Insertion length 9 1/8"

Item Number	Description	Size	Case Qty
1964-53600	Large Flange	7L	1
7909-00022	for 6mm Port	3L	1
7909-00039	for 10mm Port	7L	1
7909-15077	for 10mm Port	15L	1

1964-53600



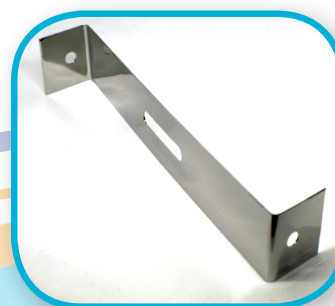
STAINLESS STEEL REMOVABLE BAFFLE

Removable baffle for large flange vessels.

- Material: SST 36L with electropolish finish
- Dimensions: 1 1/2" wide x 10 1/2" long
- Fits on any 1/4" OD SST tube inside vessel
- Recommend: 2 per vessel
- Z-shaped"

Item Number	Size	Case Qty
1964-53400	11 1/2" x 10 1/2"	1

1964-53400



BIOREACTOR

LARGE FLANGE OMNI PADDLE

316L stainless steel Omni Paddle Blade for use with large flange vessels. Constructed of 316L electropolished stainless steel Ra 32 finish or better.

- Blade Dimensions: 5 ¾" x 2"

1964-88082



Item Number	Description	Size	Case Qty
1964-88052	Paddle 5L	6 ¾"	1
1964-88082	Paddle 8L	12 ½"	1
1964-88362	Paddle 36L	17"	1

LARGE FLANGE Z/Z PADDLE

Manufactured from 316L stainless steel with electropolish finish. Ra 32 finish or better inside and out. Ideal use for cell culture and reduces shear in delicate cell culture.

- Blade dimension: 5 ¾ x 2 ½"

1964-88058



Item Number	Description	Size	Case Qty
1964-88058	Paddle 5L	6 ½"	1
1964-88088	Paddle 8L	12"	1
1964-88158	Paddle 15L	14 ¼"	1
1964-88368	Paddle 36L	16 ¾"	1

LARGE FLANGE STAINLESS STEEL CLAMP

200 mm SST large flange headplate clamp fits headplates, 5 liter thru 36 liter vessels.

- Corrosion resistant 316L stainless steel
- Includes red silicone O-Ring and 200mm T-bolt clamp

Item Number	Size	Case Qty
1964-88700	8"	1

LARGE FLANGE O-RING ONLY

200 mm large flange O-ring for use with SST flange clamps.

- 200 mm O-ring
- Red silicone rubber construction
- Includes red silicone O-Ring and 200mm T-bolt clamp

Item Number	Size	Case Qty
1964-88800	200mm	1

FLANGE GASKET FOR BIOREACTOR VESSELS

1964-88900



1964-88910



Item Number	Description	Case Qty
1964-88900	Vessel Flange Gasket 3L	1
1964-88970	Vessel Flange Gasket 7L	1
1964-88910	Vessel Flange Gasket 10L	1

BIOREACTOR

COMPRESSION FITTINGS

Bellco compression fittings are designed using our standard 45mm blue polypropylene open top caps and white silicone gaskets. A wide variety of fittings are available to allow pH and OD monitoring via insertion of these probes into sidearms or vessels. Bellco probe adapters are designed to allow introduction of threaded probes into vessels through 200mm stainless steel or a 45mm vertical sidearm.

7909-00014



Item Number	Description	Size	Case Qty
1964-90010	-	12mm	1
1964-90015	-	¼"	1
1964-90020	-	½"	1
1964-90115	-	¼"	1
1964-92000	-	2 ½"	1
1964-90125	for 1/2 Hole"	5/16"	1
7909-00014	-	¼"	1
7909-00018	-	¼"	1
7909-00030	for 18mm Port	12mm	1
1964-90120	Large Flange - Replacement Part	½ "	1

LARGE FLANGE DRIVE ADAPTER

316 L stainless steel large flange drive adapter for use with omni vessels, for attachment of overhead drive motors.

- Heavy duty cap assembly for large flange vessels
- Adapt overhead drives to teflon or sst
- Folding impeller assembly 316L
- Stainless steel design with polyester stainless steel bearings

Item Number	Description	Size	Case Qty
7764-71000	Omni Vessels	5/8"	1
7764-72000	High Speed Drive Adapter	5/8"	1

7764-71000



BELLCO CONTROL SYSTEM, FLAT BOTTOM

The Bellco Stainless Steel Shaft Conversion Kit is designed to convert your standard glass shaft to stainless steel on 1967 and 1965 Spinner Flasks.

Sizes range from:

- 100 mL to 36 liters for 1965 spinners
- 100 to 3000 mL for 1967 spinner flasks

Material:

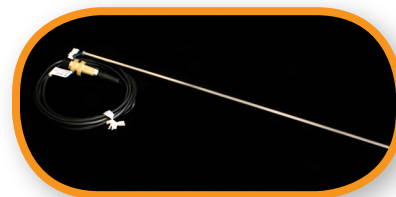
- 316L Stainless Steel 1965 & 1967 Series Micro-Carrier Spinner Flask

Item Number	Description	Size	Case Qty
7800-05510	5L BCS	115v	1
7800-05610	5L BCS	230v	1
7800-08510	8L BCS	115v	1
7800-08610	8L BCS	230v	1
7800-15510	15L BCS	115v	1
7800-15610	15L BCS	230v	1
7800-36510	36L BCS	115v	1
7800-36610	36L BCS	230v	1

RTD TEMPERATURE SENSOR WITH CABLE

7919-00004

RTD temperature sensor fits into a Thermowell to register the temperature of the media inside a vessel. This sensor connects to a temperature controller with solenoid valve to activate either a heating blanket for heating or a coil for cooling.



Item Number	Description	Size	Case Qty
7803-11500	Dimensions: 0.187" x 10"	with 8" cable	1
7803-11505	Dimensions: 17x10x1.75" (43x25x4cm) 0.87 x 3/4"	with 8" cable	1
7803-11510	Dimensions: 17x10x1.75" (43x25x4cm) 0.187x5"	with 10" cable	1
7803-11520	Dimensions: 17x10x1.75" (43x25x4cm) 0.187x5"	with 6" cable	1
7919-00004	RTD Temperature Sensor 14 for Controller	-	1
7919-00006	RTD Temperature Sensor 3/4 Controller and Angled Sidearms	-	1

ADDITIONAL VENT PIPE ASSEMBLY

Weight platforms allow the user to monitor and/or control the weight of the reaction vessels. The platforms contain 4 load cells and plugs into the rear of the CellTrol II units having weight capability.

Item Number	Description	Size	Case Qty
7805-12125	Stainless Steel Weight Platform Bioreactor - 50kg"	12 x 12 x 3"	1

METRIC DRIVE STEM ASSEMBLY

- Drive stem assembly with 3/4" OD shaft for use with 3L marine and pitched blade impellers.
- Fits into 27 mm center port of 3L metric headplate.
- Multiple impellers may be assembled onto shaft as required.

Item Number	Description	Size	Case Qty
7909-00003	Metric Drive Stem Assembly 3L for Mag Motor	3/4"	1
7909-07004	Metric Drive Stem Assembly 7L	3/4"	1
7909-15051	Metric Drive Stem Assembly 15L for Mag motor	3/4'	1

BIOREACTOR

OVER HEAD DRIVE METRIC DRIVE STEM ASSEMBLY

Metric Drive Stem Assembly for 3-7 Liter OHD Drives. Use on Digital and Process OHD.

7909-10100



Item Number	Size	Case Qty
7909-10100	3L	1
7909-10140	7L	1

METRIC CONDENSER ASSEMBLY

Stainless steel condenser mounted externally has internal baffle for efficient condensation of vapor into liquid for return to bioreactor vessel. Fits 18mm port on 3L metric headplate. :316L Stainless Steel Construction Ra 32 Finish Or Better

7909-00008



Item Number	Size	Case Qty
7909-00008	3L	1
7909-00047	7L	1
7909-15081	15L 18mm Port	1

VERTICAL SIDEARM SAMPLE SYSTEM

The bellco sample system attaches to GL45 nozzle allowing the user to take repeated samples into a standard 50mL disposable centrifuge tube. The sampler is designed to connect to an existing pipe by mounting under the open cap. Samples are taken by evacuating air with the supplied syringe and filter, thereby drawing culture into the 50mL disposable centrifuge tube.

1964-03000



Item Number	Size	Case Qty
1964-03000	45mm	1

ACRODISC FILTER

The PTFE 50 mm Acrodisc Hydrophobic Filter with hose barbs can be used to sterilize non-aqueous solutions, vacuum line protection, venting and gas filtration. Hose barb end allows easy secure attachment of silicone tubing or other types of tubing. The filter is non sterile and is autoclavable. 0.2 Micron Hydrophobic PTFE Filter 30 Psig Maximum Pressure 50mm Diameter Maximum Operating Temperature 121 Degrees Celsius Overall Length 71mm 196 Centimeters Squared Filtration Area.

1964-12112



Item Number	Description	Size	Case Qty
1964-12112	Barbed Filter pkg. 4	71mm	1
1964-12922	Acrodisc Thread Filter pkg.8	71mm	1

BIOREACTOR

STAINLESS STEEL STRAIGHT HARVESTING PIPE ASSEMBLY

Used for withdraw of contents from 3L bioreactor vessel. Fits 10mm port on 3L metric headplate

7909-00035

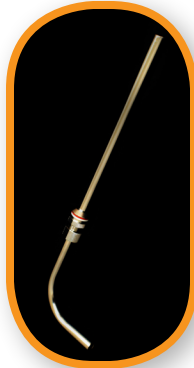


Item Number	Description	Size	Case Qty
7909-00020	3L for 10mm Port	9 ¾"	1
7909-00035	7L for 10mm Port	12 ½"	1
7909-15113	15L 10mm Port	15 ½"	1

ANGLED HARVEST PIPE ASSEMBLY

Stainless steel 12mm harvesting pipe with 90 degree angle for sampling contents in 3L – 15L bioreactor vessels. Fits 18mm port on 3L metric headplate.

7909-00009



Item Number	Description	Size	Case Qty
7909-00009	Large Volume 3L	12mm x 14" x 3 5/8"	1
7909-00023	Small Volume 3L	11 7/16"	1
7909-00073	Small Volume 7L for 18mm Port	14 ½"	1
7909-00101	Large Volume 7L	16 ¾"	1
7909-15090	Large Volume 15L for 18mm Port	18 ½"	1
7909-15091	Large Volume 15L	20"	1

STRAIGHT SAMPLE PIPE ASSEMBLY

Straight sampling pipe for removal of small volumes of media from bioreactor vessel. Fits into 10mm port on 3L metric headplate. 316L stainless steel material with electropolish finish Ra finish 32 or better inside and out supplied with O-Ring, stainless steel washer and nut.

7909-00072



Item Number	Description	Size	Case Qty
7909-00027	3L for 10mm Port	9 ¼"	1
7909-00072	7L for 10mm Port	13 7/16"	1
7909-15109	15L for 10mm Port	16 4/9"	1

ANGLED SAMPLE PIPE ASSEMBLY

Stainless steel angled sampling pipe for removal of small volumes of media from bioreactor vessel. Fits into 10mm port on 3L metric headplate. Comes with silicone O-ring, stainless steel washer and nut.

7909-00026



Item Number	Description	Size	Case Qty
7909-00026	3L for 10mm Port	10 5/8"	1
7909-15108	15L for 10mm Port	17 5/8"	1

BIOREACTOR

ANTI FOAM LEVEL PROBE ASSEMBLY

Adjustable anti-foam probe works by conductance. Rising level in bioreactor contacts the probe to trigger the controller for addition of anti-foam or addition / withdraw of media to maintain proper liquid level. Fits into 18 mm port on 3L metric head plate. Supplied with nut, washers and O-Rings.



7909-00086

Item Number	Description	Size	Case Qty
7909-00086	for 18mm Port	3L	1
7909-00102	for 18mm Port	7L	1
7909-15111	-	15L	1

CABLE TIES

Nylon cable ties for securing tubing to hose barb connections.

Item Number	Case Qty
1964-98000	25
7786-53723	100

1964-98000



HI-TORQ OVER HEAD DRIVE ADAPTER

Item Number	Size	Case Qty
7764-74000	100mm	1

7764-74000



ADDITIONAL VENT PIPE ASSEMBLY

316 L stainless steel addition port with hose barb for attachment of silicone tubing. This can be used for the introduction of small volumes aseptically into the bioreactor vessel.

Item Number	Description	Size	Case Qty
7909-00028	for 10mm Port	2"	1

ADJUSTED SAMPLE 1/8" PIPE ASSEMBLY

Hi-Torque Over Head Drive Adapter is used in conjunction with the High-Torque OHD Motor to drive the impeller assembly for mixing within a vessel. Used with 100mm cap assembly.

Item Number	Description	Size	Case Qty
7909-15114	15L Bioreactor	1/8"	1

- 316L SST design with polyester/SST bearing
- Includes two (2) 1/4" npt female plugged ports for optimal fittings
- Dimensions 3 3/4" l x 3 3/4" w x t 1/2" tall (including dust shield coupling)
- Designed to fit with OHD high torque ohd setups
- Adapts all bellco PTFE impeller assemblies or SST impeller assemblies

BIOREACTOR

PRESSURE RELIEF VALVE

The pressure relief valve is a cartridge check valve incorporating an innovative guided poppet design. This valve is the heart of the system and may be used alone or as a central component of the system. The valve has low pressure drop these valves are used to prevent flow of fluid (gas or liquid) in one direction and allows flow in the other direction. The material is BASF ULTRA FORM, an acetyl co-polymer as standard resin because of it's strength and chemical resistance. The poppet is made of stantoprene from advanced elastomer systems and has similar chemical resistance to epdm.

- 1/4" connections
- Overall dimensions: 1.795"x 0.745" (l x od)
- White polypropylene housing with hose barb connections
- Basf ultraform material

Item Number	Size	Case Qty
1964-12000A	1/4"	1

STAINLESS STEEL FITTING WITH CAP

Bellco compression fittings are designed for our standard 45mm blue polypropylene open top screw caps and white silicone gaskets. A wide variety of fittings are available to allow pH and Do monitoring via insertion of these probes into the vessels sidearms. The probe adapters are designed to allow introduction of threaded probes into vessels through 200mm stainless steel headplate or a 45mm vertical sidearm. 45mm Polypropylene Caps Silicone Rubber Gaskets 316L. Stainless Steel Construction Fits 12mm OD Probes.

1965-21050



Item Number	Size	Case Qty
1965-21050	11mm	1
1965-21060	12mm	1
1965-21070	1/2 "	1



BIOREACTOR HOSE BARB ASSEMBLY

The Stainless Steel 45mm compression and hose barb cap assembly is designed with a 1/4" id compression fitting for insertion of tube accessories and 1/4" OD hose barb for silicone tubing attachment. The compression fitting is supplied with a nylon ferrule for easy adjustment of tubes. A blue polypropylene open top cap and white silicone gasket are included.

1965-45200



Item Number	Size	Case Qty
1965-45200	45mm	1

- 316L stainless steel compression fitting and hose barb
- Blue polypropylene 45mm screw cap with open top
- White silicone rubber gasket

BIOREACTOR

STAINLESS STEEL SHAFT ASSEMBLY

The Bellco Stainless Steel Shaft Conversion Kit is designed to convert your standard glass shaft to stainless steel on 1967 and 1965 Spinner Flasks. Sizes range from 100 mL to 36 liters for 1965 spinners and 100 to 3000 mL for 1967 spinner flasks. Material: 316L Stainless Steel 1965 and 1967 Series Micro-Carrier Spinner Flask



1969-60100

Item Number	Size	Case Qty
1969-60100	100mL	1
1969-60250	250mL	1
1969-60500	500mL	1
1969-61000	1L	1
1969-61500	15-36L	1
1969-63000	3L	1
1969-66000	6-8L	1

ASEPTIC SAMPLER SYSTEM

The aseptic sample system attaches to the headplate of a metric bioreactor allowing the user to take repeated samples into a standard 50mL disposable conical tube. The sample assembly requires an existing sample pipe (not included) which connects to the inlet pipe with tubing. The device mounts easily under a closure nut of a vessel head plate stud. Samples are taken by evacuating air with the supplied syringe and filter, thereby drawing culture media into the 50mL disposable tube.

Item Number	Size	Case Qty
7909-00012	50mL	1

7909-00012



STD OVER HEAD DRIVE ADAPTER

The Bellco 100 mm Overhead Drive Cap Assembly is manufactured from 316L SST with dual bearings and seals. A dust shield for paddle assemblies (1/4" shaft) is included. Cap assembly features two 1/4" NPT female ports for addition of optional fittings. Includes two 1/4" NPT male port plugs standard. The cap assembly utilizes the unique Bellco 100 mm cap seal.

The Bellco 100 mm Overhead Drive Cap Assembly is an integral part of many Bellco Overhead Drive Systems, and is designed to be used with a Bellco Overhead Drive, glass vessel with 100 mm diameter center neck and impeller. Consult the instruction manuals provided with your Overhead Drive for set-up and system operation.

- 316L stainless steel construction
- 100mm polypropylene screw cap
- Silicone O-Ring
- Two 1/4" plugged ports

- Dimensions: 4 1/4" l x 4 1/4" w x 5 1/2" h (excluding dust shield)
- Weight: 2 lbs. (0.9 kg)

Item Number	Description	Size	Case Qty
7909-15114	Adjusted Sample 1/8 Pipe Assembly 15L Bioreactor	1/8"	1
7764-70000	-	100mm	1



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INCUBATORS

BELCO CO2 INCUBATOR

Bellco CO2 Incubators have 40 cubic feet of volume and are designed for use with Bellco's Cell Production Roller Apparatus (CPRA). One internal convenience outlet on top allows simple connection to internally placed appliances such as CPRA, Roller Drums, Magnetic Stirrers, etc. Fans take air from the chamber top, pass it over the 1100 watt heater and re-inject it into the chamber on the back wall. A microprocessor temperature controller and membrane keypad allows simple setting and monitoring of chamber temperature. A safety thermostat is included to prevent over-temperature failures. Shelf brackets are included for mounting of optional shelves. A microprocessor CO2 controller allows simple setting and monitoring of chamber CO2 level. The control panel features indicating lights and dials for automatic control of temperature and CO2.

-Power: 7728-00115 >115 +/-10VAC, 60 HZ Line Voltage, 15 AMP
115V 60 Hz Average Power Consumption.
(INCLUDES 3 AMP CONVENIENCE OUTLET LOAD)

-7728-00230 >230 +/-10VAC, 50/60 Hz Line Voltage, 10 AMP 230V 50/60
Hz Average Power Consumption.
(INCLUDES 3 AMP CONVENIENCE OUTLET LOAD)

-Watts: 1500

-Dimensions: Exterior: 40 W X 31 D X 86 H
(101.6 X 76 X 218.4cm)

-Interior: 35 W X 26 5/8 D X 77 H
(89 X 67.6 X 195.6cm)

-Volume: 40 cubic ft. (1132 L)

-Temperature Control Range: ambient +9°C to
50°C

-Temperature Uniformity: +/-1.0o @ 37°C or
better

-CO2 Range: 0 – 20% concentration

-Output: 4 – 20 mA

Item Number	Size	Case Qty
7728-00115	115v	1

7728-00115



SINGLE WINDOW STANDARD ROLL IN INCUBATOR

Bellco Roll-In Incubators have 40 cubic feet of volume and are designed for use with Bellco's Cell Production Roller Apparatus (CPRA). The flush-to-floor design allows easy movement of the CPRA in and out of the chamber. Four internal convenience outlets allow simple connection to internally placed appliances such as CPRA, Roller Drums, Magnetic Stirrers, etc. Fans take air from the chamber top, pass it over the 1100 watt heater and re-inject it into the chamber on the bottom back wall. A microprocessor temperature controller and membrane keypad allows simple setting and monitoring of chamber temperature. A safety thermostat is included to prevent over-temperature failures. Shelf brackets are included for mounting of optional shelves. The control panel features indicating lights and dials for automatic control of temperature.

Item Number	Size	Case Qty
7728-01100	100v	1
7728-01230	115v	1
7728-01005	230v	1

FLOOR EQUIPMENT

SINGLE WINDOW REFRIGERATED INCUBATOR

The Bellco Refrigerated Roll-In Incubators have 40 cubic feet of volume and are designed for use with Bellco's Cell Production Roller Apparatus (CPRA). The flush-to-floor design allows easy movement of the CPRA in and out of the chamber. Four internal convenience outlets allow simple connection to internally placed appliances such as CPRA, Roller Drums, Magnetic Stirrers, etc. Shelf brackets are included for mounting optional shelves to hold these appliances. Fans take air from the chamber top, pass it over the 1100 watt heater and inject it into the chamber on the bottom back wall.

When the refrigeration mode is active, the air is cooled using a thermoelectric cooler. A microprocessor temperature controller and membrane keypad allows simple setting and monitoring of chamber temperature. The control panel contains indicator lights and dials for controlling temperature. A safety thermostat is included to prevent over-temperature failures. The unit is not intended for use with CO2 environments.

Item Number	Size	Case Qty
7728-01100	100v	1
7728-01230	115v	1
7728-01005	230v	1

7728-01100



DOUBLE WINDOW REFRIGERATED ROLL-IN INCUBATOR

The Bellco Refrigerated Roll-In Incubators have 40 cubic feet of volume and are designed for use with Bellco's Cell Production Roller Apparatus (CPRA). The flush-to-floor design allows easy movement of the CPRA in and out of the chamber. Four internal convenience outlets allow simple connection for internally placed appliances such as CPRA, Roller Drums, Magnetic Stirrers, etc. Shelf brackets are included for mounting optional shelves to hold these appliances. Fans take air from the chamber top, pass it over the 1100 watt heater and inject it into the chamber on the bottom back wall.

When the refrigeration mode is active, the air is cooled using a thermoelectric cooler. A microprocessor temperature controller and membrane keypad allows simple setting and monitoring of chamber temperature. The control panel contains indicator lights and dials for controlling temperature. A safety thermostat is included to prevent over-temperature failures. The unit is not intended for use with CO2 environments.

Item Number	Size	Case Qty
7728-09100	100v	1
7728-09005	115v	1
7728-95220	230v	1

7728-09005



FLOOR EQUIPMENT

DOUBLE WINDOW REFRIGERATED ROLL-IN INCUBATOR

Bellco Roll-In Incubators have 40 cubic feet of volume and are designed for use with Bellco's Cell Production Roller Apparatus (CPRA). The flush-to-floor design allows easy movement of the CPRA in and out of the chamber.

Four internal convenience outlets allow simple connection to internally placed appliances such as CPRA, Roller Drums, Magnetic Stirrers, etc. Fans take air from the chamber top, pass it over the 1100 watt heater and re-inject it into the chamber on the bottom back wall.

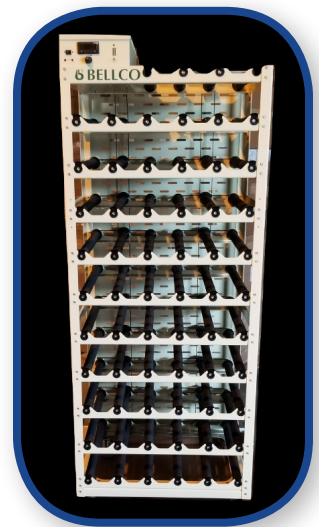
A microprocessor temperature controller and membrane keypad allows simple setting and monitoring of chamber temperature. A safety thermostat is included to prevent over-temperature failures. Shelf brackets are included for mounting of optional shelves. The control panel features indicating lights and dials for automatic control of temperature.

Item Number	Size	Case Qty
7728-59005	115v	1
7728-59522	230v	1

ROLLER APPARATUS

FIXED FRAME ROLLER APPARATUS

The Bellco Cell Production Roller Apparatus has been designed for production of animal cells, viruses and cell products. Modular units are available from 5 to 45 bottle positions and allow easy expansion with modular add-on decks. Non-modular production units come in 45 and 50 bottle positions with over 80,000 cm² of surface area. Rollers have a key design to eliminate slipping and are easily removable for servicing of bearings. Rollers are formulated from a chemical-resistant non-slip EDPM. All units feature a solid state control with heavy-duty DC motor and analog tachometer. Non-modular production models feature rubber bumpers, handles and a slotted rear guard. Optional All Position Drives are available for use with plastic roller bottles to prevent slipping of the light-weight bottles. An optional Stand By Drive and Alarm System provides motion and power failure alarms and has a redundant drive system that automatically drives the unit should the primary fail.



Item Number	Description	Size	Case Qty
7630-00509	Fixed Frame Roller Apparatus 9 Deck 45 Position 115v	115v	1
7630-22509	Fixed Frame Roller Apparatus 9 Deck 45 Position 230v	230v	1
7630-01510	Fixed Frame Roller Apparatus 10 Deck 50 Position 100v	100v	1
7630-00510	Fixed Frame Roller Apparatus 10 Deck 50 Position 115v	115v	1
7630-22510	Fixed Frame Roller Apparatus 10 Deck 50 Position 230v	230v	1

FLOOR EQUIPMENT

MODULAR CELL PRODUCTION ROLLER APPARATUS

The Bellco Cell Production Roller Apparatus has been designed for production of animal cells, viruses and cell products. Modular units are available from 5 to 45 bottle positions and allow easy expansion with modular add-on decks. Non-modular production units come in 45 and 50 bottle positions with over 80,000 cm² of surface area. Rollers have a key design to eliminate slipping and are easily removable for servicing of bearings.

Rollers are formulated from a chemical-resistant non-slip EDPM. All units feature a solid state control with heavy-duty DC motor and analog tachometer. Non-modular production models feature rubber bumpers, handles and a slotted rear guard.

Item Number	Description	Size	Case Qty
7630-71000	5 Position Base Only 100v	Dimensions: 14"h x 30"w x 24"d (37h x 76w x 63d)cm	100v 1
7630-71011	10 Position Base & 1 Deck 100v	Dimensions: 21"h x 30"w x 24"d (55h x 76w x 63d)cm	100v 1
7630-71013	20 Position Base & 3 Deck 100v	Dimensions: 36"h x 30"w x 24"d (91h x 76w x 63d)cm	100v 1
7630-71014	25 Position Base & 4 Deck 100v	Dimensions: 43"h x 30"w x 24"d (109h x 76w x 63d)cm	100v 1
7630-71016	35 Position Base & 6 Deck 100v	Dimensions: 57"h x 30"w x 24"d (145h x 76w x 63d)cm	100v 1
7630-71018	45 Position Base & 8 Deck 100v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63d)cm	100v 1
7630-75000	5 Position Base Only 115v	Dimensions: 14"h x 30"w x 24"d (37h x 76w x 63d)cm	115v 1
7630-75010	5 Position Deck Only	Dimensions: 7.1h x 30w x 24d (18h x 76w x 63d)cm	115v 1
7630-75011	10 Position Base & 1 Deck 115v	Dimensions: 21"h x 30"w x 24"d (55h x 76w x 63d)cm	115v 1
7630-75012	15 Position Base & 2 Deck 115v	Dimensions: 29"h x 30"w x 24"d (73h x 76w x 63d)cm	115v 1
7630-75013	20 Position Base & 3 Deck 115v	Dimensions: 36"h x 30"w x 24"d (91h x 76w x 63d)cm	115v 1
7630-75014	25 Position Base & 4 Deck 115v	Dimensions: 43"h x 30"w x 24"d (109h x 76w x 63d)cm	115v 1
7630-75015	30 Position Base & 5 Deck 115v	Dimensions: 50"h x 30"w x 24"d (127h x 76w x 63d)cm	115v 1
7630-75016	35 Position Base & 6 Deck 115v	Dimensions: 57"h x 30"w x 24"d (145h x 76w x 63d)cm	115v 1
7630-75017	40 Position Base & 7 Deck 115v	Dimensions: 64"h x 30"w x 24"d (163h x 76w x 63d)cm	115v 1
7630-75018	45 Position Base & 8 Deck 115v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63d)cm	115v 1
7630-75220	5 Position Base Only 230v	Dimensions: 14"h x 30"w x 24"d (37h x 76w x 63d)cm	230v 1
7630-75221	10 Position Base & 1 Deck 230v	Dimensions: 21"h x 30"w x 24"d (55h x 76w x 63d)cm	230v 1
7630-75222	15 Position Base & 2 Deck 230v	Dimensions: 36"h x 30"w x 24"d (91h x 76w x 63d)cm	230v 1
7630-75223	20 Position Base & 3 Deck 230v	Dimensions: 36"h x 30"w x 24"d (91h x 76w x 63d)cm	230v 1
7630-75224	25 Position Base & 4 Deck 230v	Dimensions: 43"h x 30"w x 24"d (109h x 76w x 63d)cm	230v 1
7630-75225	30 Position Base & 5 Deck 230v	Dimensions: 50"h x 30"w x 24"d (127h x 76w x 63d)cm	230v 1
7630-75226	35 Position Base & 6 Deck 230v	Dimensions: 57"h x 30"w x 24"d (145h x 76w x 63d)cm	230v 1
7630-75227	40 Position Base & 7 Deck 230v	Dimensions: 64"h x 30"w x 24"d (163h x 76w x 63d)cm	230v 1
7630-75228	45 Position Base & 8 Deck 230v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63d)cm	230v 1

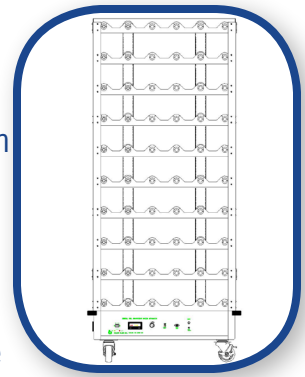
FLOOR EQUIPMENT

PROCESS BOTTOM & TOP DRIVE ROLLER APPARATUS

The Bellco Process Controlled Bottom Drive Roller Apparatus holds up to 50 (see specifications below) full size glass or plastic roller bottles (110 to 120 mm diameter and up to 510 mm in length). The unit features a brushless DC motor and controller that operate at bottle speeds ranging from 0.3 to 9.0 rpm with the ability to select clockwise or counter clockwise direction.

Units feature brushless, maintenance-free DC motors with drive assemblies designed for quiet operation. Four corner bumpers and two locking castors (on the front wheel positions) are also provided. Rollers are easily removed for replacement by using the special tool provided with each unit. All-Position Drive facilitates the use of lightweight plastic roller bottles by ensuring rotation at each bottle station, independent of any load configurations.

Bottom Drive-Model



Item Number	Description	Size	Case Qty
7375-08115	8 Deck 40 Position witho Battery Backup 100-115v	Dimensions: 59"h x 30"w x 25"d (149 x 76 x 63)cm	1
7385-08115	8 Deck 40 Position with Battery Backup 100-115v	Dimensions: 59"h x 30"w x 25"d (149 x 76 x 63)cm	1
7375-08230	8 Deck 40 Position witho Battery Backup 230v	Dimensions: 59"h x 30"w x 25"d (149 x 76 x 63)cm	1
7385-08230	8 Deck 40 Position with Battery Backup 230v	Dimensions: 59"h x 30"w x 25"d (149 x 76 x 63)cm	1
7300-09115	9 Deck 45 Position witho Battery Backup 100-115v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63)cm	1
7320-09115	9 Deck 45 Position with Battery Backup 100-115v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63)cm	1
7300-09230	9 Deck 45 Position witho Battery Backup 230v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63)cm	1
7320-09230	9 Deck 45 Position with Battery Backup 230v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63)cm	1
7300-10115	10 Deck 50 Position witho Battery Backup 100-115v	Dimensions: 73"h x 30"w x 25"d (188 x 76 x 63)cm	1
7320-10115	10 Deck 50 Position with Battery Backup 100-115v	Dimensions: 73"h x 30"w x 25"d (188 x 76 x 63) cm	1
7300-10230	10 Deck 50 Position witho Battery Backup 230v	Dimensions: 73"h x 30"w x 25"d (188 x 76 x 63)cm	1
7320-10230	10 Deck 50 Position with Battery Backup 230v	Dimensions: 73"h x 30"w x 25"d (188 x 76 x 63) cm	1
7400-10115	53 Position witho Battery Backup 100-115v	Dimensions: 76"h x 30"w x 25"d (193 x 76 x 63)cm	1
7400-20115	53 Position with Battery Backup 115v	Dimensions: 76"h x 32"w x 25"d (193 x 81 x 63)cm	1
7400-10230	53 Position witho Battery Backup 230v	Dimensions: 76"h x 30"w x 25"d (193 x 76 x 63)cm	1
7400-20230	53 Position with Battery Backup 230v	Dimensions: 76"h x 32"w x 25"d (193 x 81 x 63)cm	1
7420-10115	86 Position witho Battery Backup 115v	Dimensions: 76"h x 48"w x 25"d (193 x 122 x 63)cm	1
7420-20115	86 Position with Battery Backup 115v	Dimensions: 76"h x 48"w x 25"d (193 x 122 x 63)cm	1
7400-10230	86 Position witho Battery Backup 230v	Dimensions: 76"h x 48"w x 25"d (193 x 122 x 63)cm	1
7400-20230	86 Position with Battery Backup 230v	Dimensions: 76"h x 48"w x 25"d (193 x 122 x 63)cm	1

FLOOR EQUIPMENT

DIGITAL BOTTOM & TOP DRIVE ROLLER APPARATUS

7440-10230

The Bellco Digital Bottom Drive Roller Apparatus holds up to 50 (see specifications below) full size glass or plastic roller bottles (110 to 120 mm diameter and up to 510 mm in length). The unit features a brushless DC motor and controller that operate at bottle speeds ranging from 0.3 to 9.0 rpm with the ability to select clockwise or counter clockwise direction. The digital display panel has a 0.46" LCD for easy reading and the apparatus has a locking speed knob.

Four corner bumpers and two locking castors (on the front wheel positions) are also provided. Rollers are easily removed for replacement by using the special tool provided with each unit. All-Position Drive facilitates the use of lightweight plastic roller bottles by ensuring rotation at each bottle station, independent of any load configurations.



Item Number	Description	Size	Case Qty
7370-08115	8 Deck 40 Position with Battery Backup 100-115v	Dimensions: 59"h x 30"w x 25"d (148 x 76 x 63cm)	1
7380-08115	8 Deck 40 Position with Battery Backup 100-115v	Dimensions: 59"h x 30"w x 25"d (148 x 76 x 63cm)	1
7370-08230	8 Deck 40 Position with Battery Backup 230v	Dimensions: 59"h x 30"w x 25"d (148 x 76 x 63cm)	1
7380-08230	8 Deck 40 Position with Battery Backup 230v	Dimensions: 59"h x 30"w x 25"d (148 x 76 x 63cm)	1
7340-09115	9 Deck 45 Position with Battery Backup 100v-115v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63cm)	1
7360-09115	9 Deck 45 Position with Battery Backup 100-115v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63cm)	1
7340-09230	9 Deck 45 Position with Battery Backup 230v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63cm)	1
7360-09230	9 Deck 45 Position with Battery Backup 230v	Dimensions: 67"h x 30"w x 25"d (170 x 76 x 63cm)	1
7340-10115	10 Deck 50 Position with Battery Backup 100-115v	Dimensions 73"h x 30"w x 25"d (188 x 76 x 63cm)	1
7360-10115	10 Deck 50 Position with Battery Backup 100-115v	Dimensions: 73"h x 30"w x 25"d (188 x 76 x 63cm)	1
7340-10230	10 Deck 50 Position with Battery Backup 230v	Dimensions 73"h x 30"w x 25"d (188 x 76 x 63cm)	1
7360-10230	10 Deck 50 Position with Battery Backup 230v	Dimensions: 73"h x 30"w x 25"d (188 x 76 x 63cm)	1
7440-10115	53 Position with Battery Backup 115v	Dimensions: 76"h x 30"w x 25"d (193 x 76 x 63cm)	1
7440-20115	53 Position with Battery Backup 115v	Dimensions: 76"h x 30"w x 25"d (193 x 76 x 63cm)	1
7440-10230	53 Position with Battery Backup 230v	Dimensions: 76"h x 30"w x 25"d (193 x 76 x 63cm)	1
7440-20230	53 Position with Battery Backup 230v	Dimensions: 76"h x 30"w x 25"d (193 x 76 x 63cm)	1
7460-10115	86 Position with Battery Backup 115v	Dimensions: 76"h x 48"w x 26"d (193 x 122 x 63cm)	1
7460-20115	86 Position with Battery Backup 115v	Dimensions: 76"h x 48"w x 26"d (193 x 122 x 63cm)	1
7460-10230	86 Position with Battery Backup 230v	Dimensions: 76"h x 48"w x 26"d (193 x 122 x 63cm)	1
7460-20230	86 Position with Battery Backup 230v	Dimensions: 76"h x 48"w x 26"d (193 x 122 x 63cm)	1

FLOOR EQUIPMENT

SCI/ERA CELL PRODUCTION ROLLER APPARATUS

The Bellco Sci/ERA Cell Production Roller Apparatus has been designed for production of animal cells, viruses and cell products. Modular units are available from 5 to 45 bottle positions and allow easy expansion with modular add-on decks. Non-modular production units come in 45 and 50 bottle positions with over 80,000 cm² of surface area. Rollers have a key design to eliminate slipping and are easily removable for servicing of bearings. Rollers are formulated from a chemical-resistant non-slip EDPM. All units feature a solid state control with heavy-duty DC motor and analog tachometer. Non-modular production models feature rubber bumpers, handles and a slotted rear guard.

Item Number	Description	Size	Case Qty
7630-81013	20 Position Base & 3 Deck 100v	Dimensions: 36"h x 30"w x 24"d (91h x 76w x 63dcm)	1
7630-81018	45 Position Base & 8 Deck 100v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63dcm)	1

SCI/ERA FIXED FRAME ROLLER APPARATUS

The Bellco Sci/ERA Fixed Frame Roller Apparatus has been designed for production of mammalian cells, viruses and cell products. Non-modular production units come in 45 and 50 bottle positions with over 80,000 cm² of surface area. All units feature a solid state control with heavy-duty DC motor and digital tachometer. All Position Drives are for use with plastic roller bottles to prevent slipping of the light-weight bottles. A Stand-By Drive and Alarm System provides motion and power failure alarms and has a backup drive system that automatically drives the unit should the original fail

Item Number	Description	Size	Case Qty
7630-80509	9 Deck 45 Position 115v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63dcm)	1
7630-80510	10 Deck 50 Position 115v	Dimensions: 78"h x 30"w x 24"d (206h x 76w x 63dcm)	1
7630-82509	9 Deck 45 Position 230v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63dcm)	1
7630-82510	10 Deck 50 Position 230v	Dimensions: 78"h x 30"w x 24"d (206h x 76w x 63dcm)	1

CO2 TANK SWITCH

Provides automatic switching from main tank to auxiliary tank. Rear panel has hose barbs. for gas connection 9x5x7" mounts on top of any standard co2 incubator. Alarm sounds when tank pressure drops below 5 psi (do not exceed 50psi).

Operating instructions:

Turn on the power switch located on the back of the unit. The light by the tank currently in use (tank 1 or tank 2) will come on. When the tank pressure drops below 5 psi the alarm will sound momentarily while the unit switches to the other tank. If the second tank is also at a pressure less than 5 psi the alarm will continue to sound until the tank switch is turned off or pressure is restored. The tanks may also be switched manually by depressing the button labeled tank switch. During this switching procedure the alarm will sound until the button is no longer depressed.

Tube Information: Clear Polyurethane Tubing 5/16" OD X 3/16" Id

Item Number	Description	Case Qty
6727-00115	CO2 Tank Switch 115v	1

FLOOR EQUIPMENT

SCI/ERA MODULAR ROLLER APPARATUS WITH STAND-BY DRIVE & ALARM

The Bellco Sci/ERA Cell Production Roller Apparatus has been designed for production of mammalian cells, viruses and cell products. Non-modular production units come in 45 & 50 bottle positions with over 80,000 cm² of surface area.

All units feature a solid state control with heavy-duty DC motor and digital tachometer. All Position Drives are for use with plastic roller bottles to prevent slipping of the light-weight bottles. A Stand-By Drive & Alarm System provides motion and power failure alarms and has a backup drive system that automatically drives the unit should the original fail.

Item Number	Description	Size	Case Qty
7630-85000	Base Only 5 Position 115v	Dimensions: 14.5"h x 30"w x 24"d (37h x 76w x 63dcm)	1
7630-85010	Deck Only 5 Position All Position 115v Drive	Dimensions: 6h x 30w x 24d (18h x 76w x 63dcm)	1
7630-85011	Base & 1 Deck 10 Position 115v	Dimensions: 21"h x 30"w x 24"d (55h x 76w x 63dcm)	1
7630-85012	Base & 2 Deck 15 Position 115v	Dimensions: 29"h x 30"w x 24"d (73h x 76w x 63dcm)	1
7630-85013	Base & 3 Deck 20 Position 115v	Dimensions: 36"h x 30"w x 24"d (91h x 76w x 63dcm)	1
7630-85014	Base & 4 Deck 25 Position 115v	Dimensions: 43"h x 30"w x 24"d (109h x 76w x 63dcm)	1
7630-85015	Base & 5 Deck 30 Position 115v	Dimensions: 50"h x 30"w x 24"d (127h x 76w x 63dcm)	1
7630-85016	Base & 6 Deck 35 Position 115v	Dimensions: 57"h x 30"w x 24"d (145h x 76w x 63dcm)	1
7630-85017	Base & 7 Deck 40 Position 115v	Dimensions: 64"h x 30"w x 24"d (163h x 76w x 63dcm)	1
7630-85018	Base & 8 Deck 45 Position 115v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63dcm)	1
7630-85220	Base Only 5 Position 230v	Dimensions: 14.5"h x 30"w x 24"d (37h x 76w x 63dcm)	1
7630-85221	Base & 1 Deck 10 Position 230v	Dimensions: 21"h x 30"w x 24"d (55h x 76w x 63dcm)	1
7630-85222	Base & 2 Deck 15 Position 230v	Dimensions: 29"h x 30"w x 24"d (73h x 76w x 63dcm)	1
7630-85223	Base & 3 Deck 20 Position 230v	Dimensions: 36"h x 30"w x 24"d (91h x 76w x 63dcm)	1
7630-85224	Base & 4 Deck 25 Position 230v	Dimensions: 43"h x 30"w x 24"d (109h x 76w x 63dcm)	1
7630-85225	Base & 5 Deck 30 Position 230v	Dimensions: 50"h x 30"w x 24"d (127h x 76w x 63dcm)	1
7630-85226	Base & 6 Deck 35 Position 230v	Dimensions: 57"h x 30"w x 24"d (145h x 76w x 63dcm)	1
7630-85227	Base & 7 Deck 40 Position 230v	Dimensions: 64"h x 30"w x 24"d (163h x 76w x 63dcm)	1
7630-85228	Base & 8 Deck 45 Position 230v	Dimensions: 71"h x 30"w x 24"d (180h x 76w x 63dcm)	1

FLOOR EQUIPMENT

FLOOR EQUIPMENT ACCESSORIES

TOP DRIVE CONVERSION KIT

Item Number	Description	Case Qty
7440-55555	Top Drive Conversion Kit Crouzet to Litton Motor	1
7460-55555	Top Drive Conversion Kit 86POS Crouzet to Litton Motor	1

RETROFIT KIT 5 POSITION FRONT & REAR MOUNT

This option is used for converting:

7630-75000, 7630-75012, 7630-00509, 7630-00510, 7630-75220, 7630-75222, 7630-22509, 7630-22510I

Five position roller apparatus to all positions drive. This option is not required for use with glass bottles but is desirable for use with plastic disposable roller bottles.

Item Number	Description	Case Qty
7630-50555	APD Retrofit Kit 5 Position for 7630 Series - Rear mount	1
7730-5055	APD Kit (OLD)-5 Position for 7730 - Front Mount Units	1

SLOW SPEED KIT

The slow speed conversion kits adapt any modular or fixed frame cell production roller apparatus to operate between either the speeds of 0.10 and 2.0 rpm (7630-60666) or the speeds of .10-2.0 rpm (7630-70777).

Item Number	Size	Case Qty
7630-60666	.10-2 rpm	1
7630-70777	.85- 1.71 rpm	1

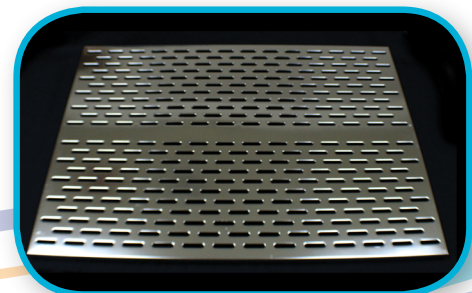
STAINLESS STEEL INCUBATOR SHELF FOR BELLCO ROLL-IN INCUBATOR

Fits in adjustable clips inside the incubator. Has 1.75" x 0.375" holes for air flow.

- Material: 304 stainless steel
- Loads: 120lbs.
- Supply with 4 shelf brackets

Item Number	Size	Case Qty
7728-40035	25 x 34"	1

7728-40035



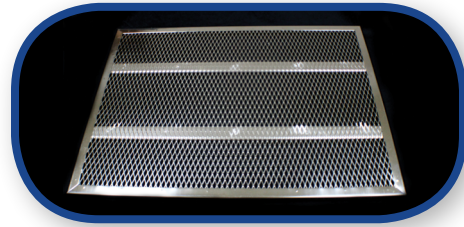
FLOOR EQUIPMENT

STAINLESS STEEL ULTRA-VENTED INCUBATOR SHELF

- Approx 25 x 34" (63.5 x 86.5cm)
- Stainless steel mesh with reinforcing bars
- Fits on adjustable clips inside incubator
- Load: 240 lbs (max)

Item Number	Size	Case Qty
7728-40050	25 x 34"	1

7728-40050



SBD & ALARM RETROFIT 100V

The Sci/ERA Standby Drive and Alarm System are designed to provide the utmost in protection against Roller Apparatus failure. Major features include a digital display of bottle speed, a maintenance-free battery and charging system, a motion detection system, internal and external alarms, and dual heavy-duty drive system. The control panel contains all switches, indicators and alarms logically arranged into functional clusters. The Standby Drive and Alarm System protects against loss of cell cultures due to power failures, inadvertent power cord disconnection and "brown outs" with a auxiliary maintenance-free battery and charging system.

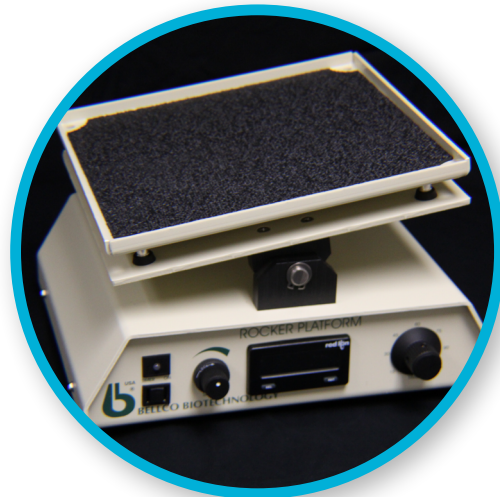
This backup system may also be engaged to keep cultures rolling during transit, feeding and harvesting; a key switch silences the internal audible alarm during such handling. The motion detector system continuously monitors roller motion. In the event of failure due to the primary drive circuit, motor, or belt breakage both the internal and external alarms are activated, and the backup drive system takes over.

- Bottle speed: 0.1-4.0 rpm
- Standard or 0.07- 2.2 rpm when specified on the order
- Drive and control system: solid-state electronic control with precision
- Full-range tachometer

Item Number	Case Qty
7730-10555	1



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INCUBATORS

STANDARD BENCH-TOP INCUBATOR

The Bellco Bench Top Incubator was designed for the incubation of cell cultures and bacteria within laboratories where space is a premium. The instrument panel is mounted on top for easy viewing and manipulation. Glass door models allow the viewing of cultures without having to open the door limiting possible contamination problems and temperature fluctuations. The convenient interior accessory outlet allows the use of Bellco 4 and 10 Position Roller Apparatus, Rockers, Shakers and Magnetic Stirrers. Optional stainless steel shelf creates additional space for storing cell culture plates and flasks.

7728-20115



- Dimensions: exterior 35.5" w x 21.3" d x 30.3" h (90 x 54 x 77cm), interior 29.5" w x 14.0" d x 20.0" h (75 x 35 x 50cm).
- Internal capacity: approximately 4.9 cubic feet (.139 cubic meters).
- Electrical rating: 115 +/-10 vac @ 60 hz line voltage, 5.0 AMP @ 115v 60 hz power consumption.
- Shipping weight: approximately 150 lbs
- Temperature control range: 5°C above ambient to 50°C
- Temperature uniformity: +/-1°C @ 37°C (or better)
- Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing.
- Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum.

Item Number	Description	Size	Case Qty
7728-10115	Bench-Top Digital Solid Door Incubator	115v	1
7728-10230	Bench-Top Digital Solid Door Incubator	230v	1
7728-20115	Bench-Top Digital Glass Door Incubator	115v	1
7728-20230	Bench-Top Digital Glass Door Incubator	230v	1
7728-02005	Analog Bench-Top Analog Solid Door Incubator	115v	1
7728-02100	Bench-Top Analog Solid Door Incubator	100v	1
7728-50205	Bench-Top Analog Glass Door Incubator	115v	1
7728-50522	Bench-Top Analog Glass Door Incubator	230v	1

BENCHTOP EQUIPMENT

MINI ROLL-IN REFRIGERATED BENCH-TOP INCUBATOR

The Bellco Mini Refrigerated Roll-In Incubator has 21 cubic feet of volume and is designed for use with Bellco's Cell Production Roller Apparatus (CPRA) up to 2 decks high. The flush-to-floor design allows easy movement of the CPRA in and out of the chamber. Two internal convenience outlets allow simple connection for internally placed appliances such as CPRA, Roller Drums, Magnetic Stirrers, etc. Shelf brackets are included for mounting optional shelves to hold these appliances. Fans take air from the chamber top, pass it over the 1100 watt heater and inject it into the chamber on the bottom back wall.

When the refrigeration mode is active, the air is cooled using a thermoelectric cooler. A microprocessor temperature controller and membrane keypad allows simple setting and monitoring of chamber temperature. The control panel contains indicator lights and dials for controlling temperature. A safety thermostat is included to prevent over-temperature failures. The unit is not intended for use with CO2 environments.

Item Number	Description	Size	Case Qty
7728-04115	<ul style="list-style-type: none"> Power: 115V 60 HZ 15 AMPs, -Watts: 1500 -Temp Range: 20oC to 50oC -Temp Uniformity: +/-0.5oC cool & +/-0.1oC heat -Capacity: 21 cu ft (595L) -Refrigerant: Thermo Electric -Shipping Weight: 410 lbs. (197 kg) Approx. -Environmental Conditions, operating: indoor use, pollution degree 2, 4° to 50°C, Relative Humidity 0-90% non-condensing -Environmental Conditions, non-operating: -10° to 60°C, Relative Humidity 95% Maximum 	<ul style="list-style-type: none"> Exterior Dimensions: 41"W X 31"D X 51"H (104 X 78 X 130cm) Interior Dimensions: 35"W X 26"D X 41"H (89 X 66 X 87cm) 	1
7728-04230	<ul style="list-style-type: none"> Power: 230V 50/60 HZ 10 AMPs, -Watts: 1500 -Temp Range: 20oC to 50oC -Temp Uniformity: +/-0.5oC cool & +/-0.1oC heat -Capacity: 21 cu ft (595L) -Refrigerant: Thermo Electric -Shipping Weight: 410 lbs. (197 kg) Approx. -Environmental Conditions, operating: indoor use, pollution degree 2, 4° to 50°C, Relative Humidity 0-90% non-condensing, -Environmental Conditions, non-operating: -10° to 60°C, Relative Humidity 95% Maximum." 	<ul style="list-style-type: none"> Exterior Dimensions: 41"W X 31"D X 51"H (104 X 78 X 130cm) Interior Dimensions: 35"W X 26"D X 41"H (89 X 66 X 87cm) 	1
7728-06005	<ul style="list-style-type: none"> Power: 115 +/-10 vac @ 50/60 hz line voltage, 15 AMP @ 115v 60 hz power consumption. -Watts: 1500 -Volume: 21 cubic ft (595 l) -Shipping weight: 400 lbs (181 kg) approx -Temperature control range: ambient +9oc to 50oc -Temperature uniformity: +/-1.0°C -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90%, non-condensing. -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum. -See 7728-09005 for accessories" 	<ul style="list-style-type: none"> Dimensions: exterior 41" w x 31" d x 51" h (104cm x 78cm x 130cm), interior 35" w x 26" d x 41" h (89cm x 66cm x 104cm) 	1

BENCHTOP EQUIPMENT

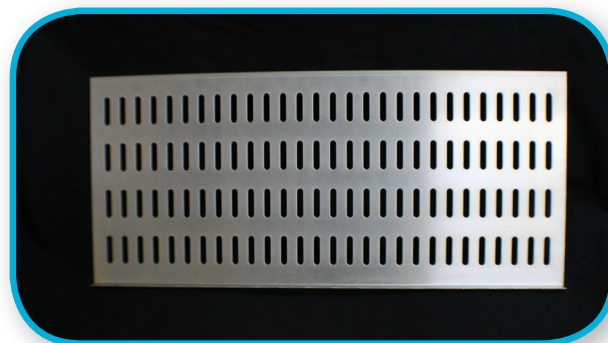
ALUMINUM SHELF FOR BENCH-TOP INCUBATOR

The Bellco Bench-Top digital incubator was designed for the incubation of cell cultures and bacteria within laboratories where space is a premium. The instrument panel is mounted on top for easy viewing and manipulation. Glass door models allow the viewing of cultures without having to open the door limiting possible contamination problems and temperature fluctuations.

The convenient interior accessory outlet allows the use of Belco 4 and 10 position roller apparatus, rockers, shakers, and magnetic stirrers. Optional stainless steel shelf creates additional space for storing cell culture plates and flasks.

Item Number	Case Qty
7728-00047	1

7728-00047



ROLLER APPARATUS

BENCH-TOP ROLLER APPARATUS

The Bellco Digital Bench-top Roller Apparatus holds 10 glass or plastic roller bottles (110 to 120 mm diameter and up to 22.5 cm in length). The unit features a heavy-duty DC motor and solid-state electronics that operate at bottle speeds ranging from 0.3 to 10.0 rpm with the ability to select clockwise or counter clockwise direction. The digital display panel has a 0.55" LED for easy reading and the apparatus has a locking speed knob.

Rollers are easily removed for replacement by using the special tool provided with each unit. All-Position Drive facilitates the use of lightweight plastic roller bottles by ensuring rotation at each bottle station, independent of any load configurations. Bellco's unique hex-shaped shafts prevent roller slippage for positive drive. Use of this equipment is limited to conventional laboratory mixing of roller bottles.

7621-20115



Item Number	Description	Size	Case Qty
7620-02005	<p>Bottle positions:10</p> <ul style="list-style-type: none"> -Bottle speed: 0.1 to 4 rpm -Clearance between decks for bottle placement: 134mm -Usable roller length: 28cm -Electrical rating: 115 +/- 10vac @ 60hz line voltage -1.0 AMP @ 115v, 60hz power consumption. -Environmental conditions, (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing. -Environmental conditions, (non-operating): -10° to 60°C, degrees -Relative humidity 95% maximum <p>Features:</p> <ul style="list-style-type: none"> -Fits inside bellco bench top incubators -Accepts bellco glass & plastic roller bottles both 110 & 120mm diameter up to 28cm overall length -All position drive -Variable speed range -Analog tachometer 	Dimensions: 73cm l x 32cm d x 37cm h Without Bottles	1
7620-02220	<p>Bottle positions:10</p> <ul style="list-style-type: none"> -Bottle speed: 0.1 to 4 rpm -Clearance between decks for bottle placement: 134mm -Usable roller length: 28cm -Electrical rating: 230 +/- 10vac @ 50/60hz line voltage -0.5 AMP @ 230v, 50hz power consumption -Environmental conditions, (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing -Environmental conditions, (non-operating): -10° to 60°C, degrees -Relative humidity 95% maximum <p>Features:</p> <ul style="list-style-type: none"> -Fits inside bellco bench top incubators -Accepts bellco glass & plastic roller bottles both 110 & 120mm diameter up to 28cm overall length -All position drive -Variable speed range -Analog tachometer" 	Dimensions: 73cm l x 32cm d x 37cm h Without Bottles	1

BENCHTOP EQUIPMENT

Bench-Top Roller Apparatus continued from previous page.

7620-10100	<p>Bottle positions: 10 -Bottle speed: 0.1 to 4 rpm -Clearance between decks for bottle placement: 134mm -Usable roller length: 28cm -Electrical rating: 100 +/- 10vac @ 50/60hz line voltage -1.0 AMP @ 100v, 50hz power consumption. -Environmental conditions, (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing. -Environmental conditions, (non-operating): -10° to 60°C, degrees -Relative humidity 95% maximum.</p> <p>Features: -Fits inside bellco bench top incubators -Accepts bellco glass & plastic roller bottles both 110 & 120mm diameter up to 28cm overall length. -All position drive. -Variable speed range. -Analog tachometer.”</p>	<p>Dimensions: 73cm l x 32cm d x 37cm h Without Bottles 100v</p>	1
7621-20115	<p>Power: 115 volt 3 AMP @ 60 hz -Bottle positions: 10 positions (2 decks @ 5 positions) -Speed range: 0.3- 10.0 rpm (default factory preset)+/- 2% -Usable roller length: 22.5 cm -Roller composition: non-transferring chemically resistant rubber -Frame composition: aluminum -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing. -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum</p>	<p>Dimensions: 28.88" x 12.50" x 13.25"</p>	1
7621-20230	<p>Power: 230 volt 2 AMP @ 50 hz -Bottle positions: 10 positions (2 decks @ 5 positions) -Speed range: 0.3 - 10.0 rpm (default factory preset)+/- 2% -Usable roller length: 22.5 cm -Roller composition: non-transferring chemically resistant rubber -Frame composition: aluminum -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing. -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum.”</p>	<p>Dimensions: 28.88" x 12.50" x 13.25"</p>	1

ECONOMY ROLLER APPARATUS 2 & 4 POSITION

A variable speed two or four bottle roller apparatus used for the purpose of producing animal cells or cell products. This small sized unit is ideal for experimental and pilot-scale cell culture. Methods developed on this unit can easily be scaled up using the same technology to production sized units with a capacity of 90, 100 or 172 bottles. Bellco's full size modular units can be increased in capacity in 10 bottle increments as well. The unit features a heavy-duty DC motor and solid-state electronics for reliable operation.

The unit includes All-Position Drive belts so that every roller rotates, thus preventing slippage of light-weight plastic bottles. An analog tachometer displays bottle speed. Bellco's unique hex-shaped shafts prevent roller slippage and produce positive drive.

7622-01020



Item Number	Description	Size	Case Qty
7622-10100	Electrical Rating: 115 +/- 10 Vac @ 60 Hz Line Voltage, 1.0 AMP @ 115v, 60 Hz Power Consumption -Bottle Speed: 0.25 – 3.0 rpm -Environmental Conditions (Operating): Indoor Use, Pollution Degree 2, 4° To 50°C, Relative Humidity 0-90%, Non-Condensing -Environmental Conditions (Non-Operating): -10° To 60°C, Relative Humidity 95% Maximum	Dimensions: 1"W X 12.8"D X 7.4"H (36x33x19cm), 14"W X 12.8"D X 10.3"H (36x33x26cm) With Bottles -Weight: 16 Lbs (7.3 Kg)	1
7622-01020	Electrical rating: 115 +/- 10 vac @ 60 hz line voltage, 1.0 AMP @ 115v, 60 hz power consumption -Bottle speed: 0.25 - 3.0 rpm -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum	Dimensions: 14"w x 12.8"d x 7.4"h (36x33x19cm), 14"w x 12.8"d x 10.3"h (36x33x26cm) With Bottles -Weight: 16 lbs (7.3 kg)	1
7622-01220	Electrical rating: 230 +/- 10 vac @ 50/60 hz line voltage, 0.5 AMP @ 230v, 50 hz power consumption -Bottle speed: 0.25 - 3.0 rpm -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing. -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum	Dimensions: 14"w x 12.8"d x 7.4"h (36x33x19cm), 14"w x 12.8"d x 10.3"h (36x33x26cm) With Bottles -Weight: 16 lbs (7.3 kg)	1
7622-20100	Electrical Rating: 115 +/- 10 Vac @ 60 Hz Line Voltage, 1.0 AMP @ 115v 60 Hz Power Consumption -Bottle Speed: 0.25 – 3.0 rpm -Environmental Conditions (Operating): Indoor Use, Pollution Degree 2, 4° To 50°C, Relative Humidity 0-90%, Non-Condensing. -Environmental Conditions (Non-Operating): -10° To 60°C, Relative Humidity 95% Maximum	Dimensions: 14"W X 12.8"D X 14.4"H (36x33x37cm), 14"W X 12.8"D X 17.3"H (36x33x44cm) With Bottles -Weight: 21.5 Lbs (9.8 Kg)	1
7622-02020	Electrical rating: 115 +/- 10 vac @ 60 hz line voltage, 1.0 AMP @ 115v 60 hz power consumption -Bottle speed: 0.25 - 3.0 rpm -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing. -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum	Dimensions: 14"w x 12.8"d x 14.4"h (36x33x37cm), 14"w x 12.8"d x 17.3"h (36x33x44cm) With Bottles -Weight: 21.5 lbs (9.8 kg)	1
7622-02220	Electrical rating: 230 +/- 10 vac @ 50/60 hz line voltage, 0.5 AMP @ 230v 50 hz power consumption -Bottle speed: 0.25 - 3.0 rpm -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum	Dimensions: 14"w x 12.8"d x 14.4"h (36x33x37cm), 14"w x 12.8"d x 17.3"h (36x33x44cm) With Bottles -Weight: 21.5 lbs (9.8 kg)	1

MINI TUBE ROLLER

The Bellco Mini Tube Roller is a variable speed roller unit for general laboratory usage. The compact size is ideal for experimental and pilot-scale operations. Methods developed on this unit can easily be scaled up. Robustly constructed and designed for easy cleaning, with EPDM rubber rollers to assure safe positive rotating motion.

The unit has 11 rollers, five of which can be removed to accommodate various bottle dimensions. When using hybridization tubes, an O-Ring (A12-1067) must be fitted on the lower end to equalize the diameter of the screw cap.

When alternate rollers are removed, 3 roller bottles up to 120 mm can rotate at a maximum speed of 4 rpm.

7622-30115



Item Number	Description	Size	Case Qty
7622-30115	Electrical rating: 115 +/- 10vac @ 60 hz line voltage, 1.0 AMP @ 115v 60 hz power consumption -Maximum load: 10 lbs -Maximum bottle length: 10" -Bottle speed: 0.1 - 30 rpm (depending upon bottle tube diameter) +/- 5%. -Typical maximum speeds: 16 mm od test tube 28 rpm, 15 ml centrifuge tube 18 rpm, 38 mm od x 200 mm bottle 8.5 rpm, 115 mm od roller bottle 4.0 rpm	Dimensions: 15"w x 17"d x 3"h Without Bottles 100-115v	1
7622-30230	Electrical rating: 230 +/- 10vac @ 50/60 hz line voltage, 1.0 AMP @ 230v 50/60 hz power consumption -Maximum load: 10 lbs -Maximum bottle length: 10" -Bottle speed: 0.1 - 30 rpm (depending upon bottle tube diameter) +/- 5%. -Typical maximum speeds: 16 mm od test tube 28 rpm, 15 ml centrifuge tube 18 rpm, 38 mm od x 200 mm bottle 8.5 rpm, 115 mm od roller bottle 4.0 rpm.	Dimensions: 15"w x 17"d x 3"h Without Bottles 230v	1

IDLER & DRIVE ROLLER ASSEMBLY

Unit has 11 rollers, 5 of which can be removed to accommodate various bottle diameters. Use O-Ring with hybridization bottles to equalize cap diameter with body OD when idler roller are removed.

Three bottles up to 120mm can be rotated at a maximum speed of 6 rpm. Replacement roller are available and easily installed. Maximum speed of 30 rpms.

Item Number	Description	Size
7622-30010	Weight: 12 lbs Max bottle length: 10"	15" x 17" x 3"
7622-30020	Idler Roller Assembly for Mini Tube Roller	-

BENCHTOP EQUIPMENT

BENCH-TOP 2 POSITION MODULAR DECK

Item Number	Description	Size	Case Qty
7632-10000	Deck only for bench-top modular roller apparatus 7632-00115 & 7632-00230	Deck to deck spacing: 7"	1

BACK TO BASICS II BENCH-TOP ROLLER APPARATUS

The Bellco Bench top Modular Roller Apparatus is a variable speed two bottle roller apparatus (expandable to six bottles) used for the purpose of producing animal cells or cell products. This small sized unit is ideal for experimental and pilot-scale cell culture. The unit features a heavy-duty DC motor and solid-state electronics for reliable operation.

The unit includes All-Position Drive belts so that every roller rotates, thus preventing slippage of light-weight plastic bottles. Bellco's unique hex-shaped shafts prevent roller slippage and produce positive drive.

7632-00115



Item Number	Description	Size	Case Qty
7632-00115	<p>Power: 115 volt 1 AMP 60 hz</p> <ul style="list-style-type: none"> -Bottle positions: 2 positions (110 to 120 mm diameter & up to 22.5 cm in length) -Speed range: 0.1- 4.0 rpm -Usable roller length: 22.5 cm -Roller composition: non-transferring chemically resistant rubber -Frame composition: aluminum -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing. -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum -Can add 2 more decks for a total of 6 bottles optional, modular deck kit 7632-10000 	<p>Dimensions: 13.5"w x 13.0"d x 7.5"h 115v</p>	1
7632-00230	<p>Power: 230 volt 0.5 AMP 50 hz</p> <ul style="list-style-type: none"> -Bottle positions: 2 positions (110 to 120 mm diameter & up to 22.5 cm in length) -Speed range: 0.1- 4.0 rpm -Usable roller length: 22.5 cm -Roller composition: non-transferring chemically resistant rubber -Frame composition: aluminum -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing -Environmental conditions (non-operating): -10° to 60°C, relative humidity 95% maximum -Can add 2 more decks for a total of 6 bottles optional, modular deck kit 7632-10000 	<p>Dimensions: 13.5"w x 13.0"d x 7.5"h 230v</p>	1

ROLLER DRUMS

STANDARD BRUSHLESS DIGITAL ROLLER DRUM BASE

The Bellco Brushless Digital Roller Drum Drive is an all purpose roller drum for blood, tissue culture, cells and virus applications. The standard speed ranges are 0.5 to 15 and 2 to 60 rpm with other speed ranges available as custom items. Four drums are available with capacity of 164 or 351 tubes of 16 mm diameters, 156 tubes of 25 mm diameter or 128 tubes for most 50 ml conical bottom centrifuge tubes.

7736-31115



Item Number	Description	Size	Case Qty
7736-31115	Electrical: 115v/24v -Drum tilt: 7° -Drum speed range: 2 - 60 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing -Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 164 tube drum 36cm w x 3 cm d x 55 cm h 115v	1
7736-31230	Electrical: 230v/24v -Drum tilt: 7° -Drum speed range: 2 - 60 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 164 tube drum 36 cm w x 33 cm d x 55 cm h 230v	1
7736-41115	Electrical: 115v/24v -Drum tilt: 7° -Drum speed range: 0.5 - 15 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing -Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 164 tube drum 36 cm w x 33 cm d x 55 cm h 115v	1
7736-41230	Electrical: 230v/24v -Drum tilt: 7° -Drum speed range: 0.5 - 15 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing -Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 164 tube drum 36 cm w x 33 cm d x 55 cm h 230v	1

ROLLER DRUM FOR STANDARD & LOW PROFILE UNITS

7736-20025



7736-20025



Item Number	Description	Case Qty
7736-20025	156 Position Roller Drum 25mm Tubes 18 Diameter for Standard Base	1
7736-20050	128 Position Roller Drum 30mm Tubes 18 Diameter for Standard Base	1
7736-20164	164 Position Roller Drum 16mm Tubes 14 Diameter for Standard Base	1
7736-20351	351 Position Roller Drum 16mm Tubes 18 Diameter for Standard Base	1
7736-21060	60 Position Roller Drum 25mm Tubes 12 Diameter for Low Profile Base	1
7736-21106	106 Position Roller Drum 18mm Tubes 12 Diameter for Low Profile Base	1

LOW PROFILE BRUSHLESS DIGITAL ROLLER DRUM BASE

The Bellco Low Profile Brushless Digital Roller Drum Drive is an all purpose roller drum for blood, tissue culture, cells and virus applications. The standard speed ranges are 0.5 to 15 and 2 to 60 rpm with other speed ranges available as custom items. Two drums are available with capacity of 106 tubes of 18 mm diameters, or 60 tubes of 25 mm diameter.

Item Number	Description	Size	Case Qty
7736-51115	Electrical: 115v/24v -Drum tilt: 7° -Drum speed range: 2 - 60 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing -Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 106 tube drum 30.5 cm w x 31 cm d x 43 cm h 115v	1
7736-51230	Electrical: 230v/24v -Drum tilt: 7° -Drum speed range: 2 - 60 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing -Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 106 tube drum 30.5 cm w x 31 cm d x 43 cm h 230v	1
7736-61115	Electrical: 115v/24v -Drum tilt: 7° -Drum speed range: 0.5 - 15 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing -Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 106 tube drum 30.5 cm w x 31 cm d x 43 cm h 115v	1
7736-61230	Electrical: 230v/24v -Drum tilt: 7° -Drum speed range: 0.5 - 15 rpm -Environmental conditions, operating: indoor use, pollution degree 2, 4° to 50°C relative humidity 0-90% non-condensing -Environmental conditions, non-operating: -10° to 60°C, relative humidity 95% maximum	Dimensions withbase: 106 tube drum 30.5 cm w x 31 cm d x 43 cm h 230v	1

SECTION STIRRERS

BELL-ENNIUM DIGITAL MAGNETIC STIRRER

Bell-ennium Magnetic Stirrers are designed for both cell cultures in spinner flasks as well as for general laboratory procedures requiring the use of magnetic stirring equipment. Bell-ennium stirrers offer the laboratory researcher a wide range of capabilities and the latest innovations in stirring technology. Bell-ennium stirrers feature brushless maintenance free DC motors with drive assemblies designed for quiet operation.

Stainless steel covers are studded to show the vessel positions for accurate placement and optimum performance. The Bell-ennium single position low profile chassis measure 10 x 11 x 3 3/8" and are designed to fit side-by-side in Bellco incubators. Units are powered by standard 24V in-line power supplies and are CE compliant.

Item Number	Description	Size	Case Qty
7785-D1108	Number of positions: 1 -Max flask size: 8 liter -Speed range: 30 - 500 rpm +/- 2% -Power consumption: 10 watts max -Electrical: 115v/24v fused at 1 AMP	Dimensions: 10"w x 11"d x 3 1/2"h (25 x 28 x 8.5cm) 115v	1
7785-D1136	Number of positions: 1 -Max flask size: 36 liter -Speed range: 30 - 500 rpm +/- 2% -Power consumption: 13 watts max -Electrical: 115v/24v fused at 1 AMP	Dimensions: 18"w x 20"d x 3 3/8"h (45x50x8.5cm) 115v	1
7785-D1208	Number of positions: 1 -Max flask size: 8 liter -Speed range: 30 - 500 rpm +/- 2% -Power consumption: 10 watts max -Electrical: 230v/24v fused at 1 AMP	Dimensions: 10"w x 11"d x 3 1/2"h (25x28x8.5cm) 230v	1
7785-D1236	Number of positions: 1 -Max flask size: 36 liter -Speed range: 30 - 500 rpm +/- 2% -Power consumption: 13 watts max -Electrical: 230v/24v fused at 1 AMP	Dimensions: 18"w x 20"d x 3 3/8"h (45x50x8.5cm) 230v	1
7785-D1502	Number of positions: 2 -Max flask size: 8 liters -Speed range: 30-500 rpm +/-2% -Power consumption: 12 watts -Electrical: 115vac/24vdc fused at 1 AMP	Dimensions: 20"w x 11"d x 3.5"h (51 x 28 x 8.9cm) 115v	1
7785-D1512	Number of positions: 2 -Max flask size: 8 liters -Speed range: 30 - 500 rpm +/- 2% -Power consumption: 12 watts -Electrical: 230vac/24vdc fused at 1 AMP	Dimensions: 20" w x 11" d x 3.5" h (51x28x8.9cm) 230v	1
7785-D1531	Number of positions: 2 -Max flask size: 2 x 8 liter -Speed range: 30 - 500 rpm +/- 2% -Power consumption: 12 watt -Electrical: 115vac/24vdc, fused at 1 AMP	Dimensions: 11" w x 20" d x 3 3/8" h (28x51x8.5cm) 115v	1
7785-D1532	Number of positions: two 2 -Max flask size: 2 x 8 liter -Speed range: 30 - 500 rpm +/- 2% -Power consumption: 12 watt -Electrical: 230vac/24vdc, fused at 1 AMP	Dimensions: 11" w x 20" d x 3 3/8" h (28x51x8.5cm) 230v	1

BENCHTOP EQUIPMENT

7785-D2005	Number of positions: 5 -Max flask size: 1 liter max of 5 vessels or 3 liter max of 4 vessels -Speed range: 30 - 500 rpm +/- 2% -Weight: 18 lb (8.2 kg) -Power consumption: 12 watt -Electrical rating: 115vac/24vdc, fused at 1 AMP	Dimensions: 16.5" w x 18" d x 3" h (41 x 45 x 7.5 cm) 115v	1
7785-D2015	Number of positions: 5 -Max flask size: 1 liter max of 5 vessels or 3 liter max of 4 vessels -Speed range: 30-500 rpm +/-2% -Weight: 18 lb (8.2 kg) -Power consumption: 12 watt -Electrical rating: 230vac/24vdc fused at 1 AMP	Dimensions: 16.5" x 18" x 3" (41 x 45 x 8.5 cm) 230v	1
7785-D5005	Number of positions: 5 -Max flask size: 5 x 500 ml or 4 x 1 liter bellco spinner flasks -Speed range: 30 - 500 rpm +/- 2% -Weight: 18 lb (8.2 kg) -Power consumption: 12 watt -Electrical rating: 115v/24v fused at 1 AMP	Dimensions: 14.5" x 15" x 3" (37 x 38 x 7.5 cm) 115v	1
7785-D5015	Number of positions: 5 -Max flask size: 5 x 500 ml or 4 x 1 liter bellco spinner flasks -Speed range: 30 - 500 rpm +/- 2% -Weight: 18 lb (8.2 kg) -Power consumption: 12 watt -Electrical rating: 230v/24v fused at 1 AMP	Dimensions: 14.5" x 15" x 3" (37 x 38 x 7.5 cm) 230v	1
7785-D9005	Number of positions: 9 -Max flask size: 500 ml (max. of 9 vessels, with 70mm necks) -Speed range: 30-500 rpm +/- 2% -Weight: 18 lb (8.2 kg) -Power consumption: 16 watt -Electrical rating: 115vac/24vdc fused at 1 AMP	Dimensions: 16.5" x 18" x 3 3/8" (41 x 45 x 8.5 cm) 115v	1
7785-D9015	Number of positions: 9 -Max flask size: 500 ml (max. of 9 vessels, with 70mm necks) -Speed range: 30-500 rpm +/- 2% -Weight: 18 lb (8.2 kg) -Power consumption: 16 watt -Electrical rating: 230vac/24vdc fused at 1 AMP	Dimensions: 16.5" x 18" x 3 3/8" (41 x 45 x 8.5 cm) 230v	1

7785-D2005



7785-D9015



BENCHTOP EQUIPMENT

BELL-ENNIUM DIGITAL MOTION ALARM

The motion alarm produces an audible alarm should the drive mechanism fail in anyway. The alarm reset automatically upon resumption of motion and may be silenced with an override button on the back panel. The alarms are factory installed only in our digital stirrers.

Item Number	Case Qty
7785-11111	1

BELL-ENNIUM PROCESS MOTION ALARM

The motion alarm produces an audible alarm should the drive mechanism fail in anyway. The alarm reset automatically upon resumption of motion and may be silenced with an override button on the back panel. The alarms are factory installed only in our process stirrers.

Item Number	Case Qty
7785-22222	1

INSECT CELL CULTURE SYSTEM

Designed for growing insect cell cultures such as SF9 and SF21 cells. The system comes complete with all accessories needed to grow your insect culture line for expression Includes:

- 7785-D2005 Digital 5-Position Magnetic Stirrer 115V
- 1965-03000 Micro-Carrier Spinner Flask Complete 3L
- 1965-2000 3R 2-Port Assembly 3L
- 7808-10004 Gas Blending Stand
- 7725-00120 Air Supply Pump 115V
- 7800-10050 Silicone Tubing 1/4" ID

Item Number	Description	Size	Case Qty
1965-70115	Digital Micro-Carrier Insect System 3L 115v	115v	1
1965-70230	Digital Micro-Carrier Insect System 3L 230v	230v	1
1965-76115	Digital IOB Insect System 3L 115v	115v	1
1965-76230	Digital IOB Insect System 3L 230v	230v	1
1965-80115	Process Micro-Carrier Insect System 3L 115v	115v	1
1965-80230	Process Micro-Carrier Insect System 3L 230v	230v	1
1965-86115	Process IOB Insect System 3L 115v	115v	1
1965-86230	Process IOB Insect System 3L 230v	230v	1

BENCHTOP EQUIPMENT

BELL-ENNIUM PROCESS MAGNETIC STIRRER

Bell-ennium Magnetic Stirrers are designed for both cell cultures in spinner flasks as well as for general laboratory procedures requiring the use of magnetic stirring equipment. Bell-ennium stirrers offer the laboratory researcher a wide range of capabilities and the latest innovations in stirring technology.

Bell-ennium stirrers feature brushless, maintenance-free DC motors with drive assemblies designed for quiet operation. Stainless steel covers are stamped to show the vessel's position for accurate placement and optimum performance. Heavy duty magnet assemblies insure smooth even stirring of vessel contents. Units are powered by standard 24V DC in-line power supplies and are CE compliant.

7785-P1502



Item Number	Description	Size	Case Qty
7785-P1108	Number of positions: 1 -Max flask size: 8 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 11 watts max -Electrical: 115vac/24vdc, fused at 1 AMP	Dimensions: 10" w x 11" d x 3 3/8" h (25 x 28 x 8.5cm) 115v	1
7785-P1136	Number of positions:1 -Max flask size: 36 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 18 watts max -Electrical: 115vac/24vdc, fused at 1 AMP	Dimensions: 18" w x 20" d x 3 3/8" h (46x51x8.5cm) 115v	1
7785-P1208	Number of positions:1 -Max flask size: 8 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 11 watts max -Electrical: 230vac/24vdc, fused at 1 AMP	Dimensions: 10" w x 11" d x 3 3/8" h (25x28x8.5cm) 230v	1
7785-P1236	Number of positions: 1 -Max flask size: 36 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 18 watts max -Electrical: 230vac/24vdc, fused at 1 AMP	Dimensions: 18" w x 20" d x 3 3/8" h (46x51x8.5cm) 230v	1
7785-P1502	Number of positions: 2 -Max flask size: 2 x 8 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 11.5 watt -Electrical: 115vac/24vdc, fused at 1 AMP	Dimensions: 20" w x 11" d x 3 3/8" h (51x28x8.5cm) 115v	1
7785-P1512	Number of positions: 2 -Max flask size: 2 x 8 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 11.5 watt -Electrical: 230vac/24vdc, fused at 1 AMP	Dimensions: 20"w x 11"d x 3 3/8"h (51x28x8.5cm) 230v	1
7785-P1531	Number of positions: 2 -Max flask size: 2 x 8 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 12 watt -Electrical: 115vac/24vdc, fused at 1 AMP	Dimensions: 11" w x 20" d x 3 3/8" h (28x51x8.5cm) 115v	1

BENCHTOP EQUIPMENT

Continued from previous page.

7785-P1532	Number of positions: 2 -Max flask size: 2 x 8 liter -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 11.5 watt -Electrical: 230vac/24vdc, fused at 1 AMP	Dimensions: 11" w x 20" d x 3 3/8" h (28x51x8.5cm) 230v	1
7785-P2005	Number of positions: 5 -Max flask size: 1 liter (stirs max. of 5 vessels) or 3 liter (stirs max. of 4 vessels) -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 25 watt -Electrical: 115vac/24vdc, fused at 1 AMP	Dimensions: 16.5" w x 16.5" d x 3" h (41x41x7.5cm) 115v	1
7785-P2015	Number of positions: 5 -Max flask size: 1 liter (stirs max. of 5 vessels) or 3 liter (stirs max. of 4 vessels) -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 25 watt -Electrical: 230vac/24vdc, fused at 1 AMP	Dimensions: 16.5" w x 16.5" d x 3" h (41x41x7.5cm) 230v	1
7785-P5005	Number of positions: 5 -Max flask size: 5 x 500 ml or 4 x 1 liter -Speed range: 30 - 500 rpm +/- 1% -Weight: 18 lb (8.2 kg) -Power consumption: 18 watt -Electrical rating: 115vdc/24vac, fused at 1 AMP	Dimensions: 14.5" x 16.5" x 3" (37 x 41 x 75cm) 115v	1
7785-P5015	Number of positions: 5 -Max flask size: 5 x 500 ml or 4 x 1 liter -Speed range: 30 - 500 rpm +/- 1% -Weight: 18 lb (8.2 kg) -Power consumption: 18 watt -Electrical rating: 230vdc/24vac, fused at 1 AMP	Dimensions: 14.5" x 16.5" x 3" (37 x 41 x 75cm) 230v	1
7785-P9005	Number of positions: 9 -Max flask size: 500 ml (max. of 9 vessels with 70mm necks) -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 18 watt -Electrical: 115vac/24vdc, fused at 1 AMP	Dimensions: 16.5" w x 18" d x 3 3/8" h (41x45x8.5cm) 115v	1
7785-P9015	Number of positions: 9 -Max flask size: 500 ml (max. of 9 vessels with 70mm necks) -Speed range: 30 - 500 rpm +/- 1% -Power consumption: 18 watt -Electrical: 230vac/24vdc, fused at 1 AMP	Dimensions: 16.5" w x 18" d x 3 3/8" h (41x45x8.5cm) 230v	1

7785-P5015



BENCHTOP EQUIPMENT

BELL-STIR MAGNETIC STIRRER

Bellco Magnetic Stirrers are specifically designed for growing both mammalian and bacterial cultures where minimal heat transfer from the magnetic stirrer to the culture vessel is essential. They are ideal for tissue cultures grown in spinner flasks. Bellco incorporates low wattage DC motors to reduce stirrer heat up. Independent power and speed controls allow unit to maintain a speed setting when switched on and off.

Powerful magnets rotate on ball bearing shafts for increased coupling and continuous maintenance free service. Polyurethane drive belts resist humidity and temperature. The 100V, 115V & 230V models feature a convenience outlet that allows daisy chaining of up to ten stirrers. Speed range: 30 - 1000 rpm +/- 5%

Item Number	Description	Positions	Size	Case Qty
7760-06100	-Max flask size: 1 liter (standard bellco spinner flask) -Electrical: 100 +/-10vac 50/60 hz, fused at 1.0 AMP	1	Dimensions: 6.3" w x 6.3" d x 4.7" h (16x16x13cm) 100v	1
7760-06103	-Max flask size: 8 liters -Power consumption: 1.0 AMP @ 100 v, 50 hz -Electrical: 100 +/- 10 vac, 50/60 hz line voltage	1	Dimensions: 26w x 26d x 13h cm 100v	1
7760-06000	-Max flask size: 1 liter (standard bellco spinner flask) -Speed range: 30 - 1000 rpm +/- 5% -Electrical: 115 +/-10vac 60 hz, fused at 1 AMP	1	Dimensions: 6.3" w x 6.3" d x 4.7" h (16x16x13cm) 115v	1
7760-06003	-Max flask size: 8 liters -Power consumption: 1.0 AMP @ 115 v, 60 hz -Electrical: 115 +/- 10 vac, 60 hz line voltage	1	Dimensions: 26w x 26d x 13h cm. 115v	1
7760-06220	-Max flask size: 1 liter (standard bellco spinner flask) -Electrical: 230 +/-10vac 50/60 hz, fused at 0.5 AMP	1	Dimensions: 6.3" w x 6.3" d x 4.7" h (16x16x13cm) 230v	1
7760-06223	-Max flask size: 8 liters -Power consumption: 0.5 AMP @ 230 v, 50 hz -Electrical: 230 +/- 10 vac, 50/60 hz line voltage	1	Dimensions: 26w x 26d x 13h cm 230v	1
7760-06105	-Max flask size: 500ml with70mm neck -Power consumption: 1.0 AMP @ 115 v, 60 hz -Electrical: 115 +/- 10 vac, 60 hz line voltage	4	Dimensions: 26w x 26d x 13h cm 100v	1
7760-06005	-Max flask size: 500ml with70mm neck -Speed range: 30 - 1000 rpm +/- 5% -Power consumption: 1.0 AMP @ 115 v, 60 hz -Electrical: 115 +/- 10 vac, 60 hz line voltage	4	Dimensions: 26w x 26d x 13h cm 115v	1

7760-06100



7760-06005

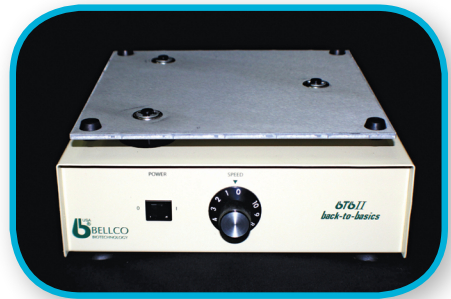


ROCKERS & SHAKERS

BACK TO BASICS II SHAKER WITH POWER SUPPLY

The Bellco BTBII “Back-To-Basics” Orbital Shaker provides an easy to use shaker for light duty applications requiring an orbital movement. Speed is controlled with a dial located on the front of the unit and ranges from 10-200 rpm approx., with a 1” orbit. The units are designed to fit in most Bellco incubators. Units are powered by standard 24V in-line power supplies and are CE compliant. Trays are sold separately.

7677-10115

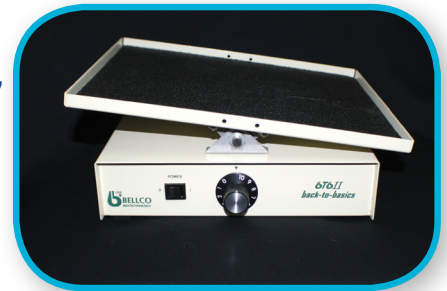


Item Number	Description	Size	Case Qty
7677-10115	Orbit: 1" (2.5cm) -Load capacity: 10 lbs max - evenly distributed -Electrical rating: 115v/24v fused at 1 AMP	Dimensions: 4 3/4" h x 10" w x 10" d 115v	1
7677-10230	Orbit: 1" (2.5cm) -Load capacity: 10 lbs max - evenly distributed -Electrical rating: 230v/24v fused at 1 AMP	Dimensions: 4 3/4" h x 10" w x 10" d 230v	1

BACK TO BASICS II ROCKER

The Bellco “Back-To-Basics II” Rocker provides an easy to use rocker for light duty applications. It provides a gentle uniform rocking motion, required for even coverage of media over mono layer cell cultures (maximizing cellular health and viability). Viral suspensions introduced onto a mono layer of cells will yield higher virus titers. Additionally, rocker platforms are ideal for performing staining and destaining of gel and filter assays. Speed is controlled with a dial located on the front of the unit and ranges from 8-60 cycles/min approximately. Angle of tilt is adjustable, Platform tilt; $\pm 12^\circ$. Units are powered by standard 24V in-line power supplies and are CE compliant

7677-20115



Item Number	Description	Size	Case Qty
7677-20115	Complete 115v with 10x12 Tray -Speed Range: 8-60 Cycles/Minutes, Approx. -Tilt Angle: Adjustable; $\pm 12^\circ$ -Maximum Load: 5 Lbs (2.2 Kg) -Electrical: 115v/24v Fused At 1 AMP -Add 4" to height when using optional stacking tray	Dimensions: 10" W X 10.5" D X 4 3/4" H 115v	1
7677-20230	Complete 230v with 10x12 Tray -Speed range: 8-60 cycles/minutes, approx. -Tilt angle: adjustable; $\pm 12^\circ$ -Maximum load: 5 lbs (2.2 kg) -Electrical: 230v/24v fused at 1 AMP -Add 4" to height when using optional stacking tray	Dimensions: 10" w x 10.5" d x 4 3/4" h 230v	1

BACK TO BASIC STACKING TRAY FOR ROCKER

Item Number	Description
7677-21000	Stacking Tray for Back-To-Basics II Rocker

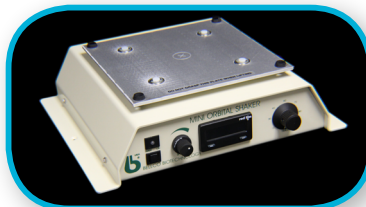
BENCHTOP EQUIPMENT

DIGITAL MINI ORBITAL SHAKER

The Bellco Digital Mini Orbital Shaker is a high speed shaker for general laboratory cell culture experimentation. This Bellco design incorporates an orbital platform that accepts a variety of optional trays.

- Brushless DC
- Four versions of trays are available
- Peg and grommet design offers a simple method to install or change trays

7644-20115



7644-20230



Item Number	Description	Size	Case Qty
7644-20115	Speed range: 40 - 1550 orbits per minute -Circular orbit: 1/16" (radius) -Base weight: 16.8 lb (7.7 kg) -Electrical: 115 +/-10 vac 60 hz line voltage, 2 AMP @ 115v 60 hz power consumption -Fusing: all units have internal 24vdc circuits fused at 2 AMP (2a/250vac) -Timer range: 3 -120 minutes	Base overall dimensions: 13 3/4" x 14 1/2" x 5 1/2" (35 x 37 x 14cm)	1
7644-20230	Speed range: 40 - 1550 orbits per minute -Circular orbit: 1/16" (radius) -Base weight: 16.8 lb (7.7 kg) -Electrical: 230 +/-10 vac 50/60 hz line voltage, 2 AMP @ 230v 50 hz power consumption -Fusing: all units have internal 24vdc circuits fused at 2 AMP (2a/250vac) -Timer range: 3 -120 minutes	Base overall dimensions: 13 3/4" x 14 1/2" x 5 1/2" (35 x 37 x 14cm)	1

BRUSHLESS ORBITAL SHAKER

The Bellco Orbital Shaker is a compact, heavy-duty variable speed shaker. It is used for the agitation of electrophoretic gels and filter assay media for staining, destaining and assay development. The Shaker accommodates a variety of vessels. It is continuously adjustable from 30 to 350 rpm. This Bellco design incorporates an orbital platform that accepts a variety of optional trays. A variety of tray models are available, including three equipped with flask clamps for common sizes of flasks. Peg and Grommet style trays make changing convenient.

Item Number	Description	Size	Case Qty
7644-40115	Speed range: 30 to 350 rpm +/- 2% -Circular orbit: 1" -Maximum load: 25 lbs (10 kg) -Base weight: 11.6 lb (5.3 kg) -Electrical rating: 115 +/-10 vac 60 hz line voltages 2 AMP -Fusing: all units have internal 24vdc circuits fused at 2 AMP (2a/250vac)	Base overall dimensions: 12" x 13" x 5 1/2" (33 x 31 x 14 cm) 115v	1
7644-40230	Speed range: 30 to 350 rpm +/- 2% -Circular orbit: 1" -Maximum load: 25 lbs (10 kg) -Base weight: 11.6 lb (5.3 kg) -Electrical rating: 230 +/-10 vac 50/60 hz line voltages 2 AMP -Fusing: all units have internal 24vdc circuits fused at 2 AMP (2a/250vac)	Base overall dimensions: 12" x 13" x 5 1/2" (33 x 31 x 14 cm) 230v	1

BENCHTOP EQUIPMENT

STANDARD ROCKER

The Bellco Rocker Platforms provide a gentle uniform rocking motion, required for even coverage of media over mono-layer cell cultures, thereby maximizing cellular health and viability. Viral suspensions introduced onto a mono-layer of cells will yield higher virus titers. Additionally, rocker platforms are ideal for performing staining and destaining of gel and filter assays. They are engineered to operate between 0 to 12 oscillations per minute. Units are delivered with either a 25 x 25 cm or 51 x 51 cm tray. Additional interchangeable trays are also available.

Item Number	Description	Size	Case Qty
7740-01000	Base Unit Only 100v Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 100 +/-10 vac @ 50/60 hz line voltage, 1.0 AMP @ 100v, 50 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 100v	1
7740-10000	Base Unit Only 115v Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 115 +/-10 vac @ 60 hz line voltage, 1.0 AMP @ 115v, 60 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 115v	1
7740-10010	Complete 115v with 25x25 Tray Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 115 +/-10 vac @ 60 hz line voltage, 1.0 AMP @ 115v, 60 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 115v	1
7740-10100	Complete 100v with 25x25 Tray Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 100 +/-10 vac @ 50/60 hz line voltage, 1.0 AMP @ 100v, 50 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 100v	1
7740-10220	Complete 230v with 25x25 Tray Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 230 +/-10 vac @ 50/60 hz line voltage, 0.5 AMP @ 230v, 50 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 230v	1
7740-20000	Base Unit Only 230v Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 230 +/-10 vac @ 50/60 hz line voltage, 0.5 AMP @ 230v, 50 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 230v	1
7740-20020	Complete 115v with 51x51 Tray Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 115 +/-10 vac @ 60 hz line voltage, 1.0 AMP @ 115v, 60 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 115v	1
7740-20200	Complete 100v with 51x51 Tray Load: 20 pounds (9 kg) maximum, evenly distributed -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 100 +/-10 vac @ 50/60 hz line voltage, 1.0 AMP @ 100v, 50 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 100v	1
7740-20220	Standard Rocker Complete 230v with 51x51 Tray -Speed range: 0 to 12 oscillations per minute -Platform tilt: 7 fixed -Electrical: 230 +/-10 vac @ 50/60 hz line voltage, 0.5 AMP @ 230v, 50 hz power consumption	Physical dimensions (without tray): 13.0 cm h x 28.0 cm d x 28.0 cm w (5" x 11" x 11") 230v	1

BENCHTOP EQUIPMENT

DIGITAL ROCKER

The Bellco Digital Rocker is a slow speed rocker for general laboratory cell culture experimentation. This Bellco design incorporates a rocking platform that accepts a variety of optional trays. Eight tray models are available, including three equipped with flask clamps for common sizes of flasks. Peg and Grommet style trays make changing convenient. The timer circuit permits automatic shutoff after 3-120 minutes.

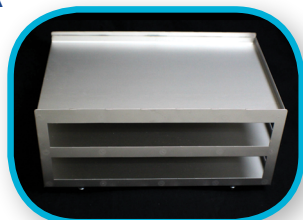
7743-10115



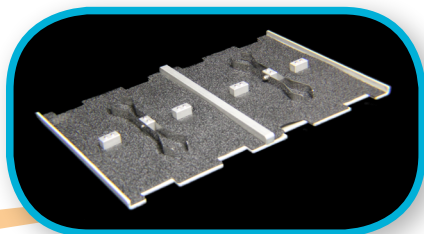
Item Number	Description	Size	Case Qty
7743-10115	Speed range: 0 - 30 oscillations per minute +/- 2% -Timer range: 3 - 120 minutes -Range of motion: 0-12 degrees (adjustable) -Base weight: 11.6 lb (5.3 kg) -Electrical rating: 115 +/-10 vac @ 60 hz line voltage, 1 AMP -Maximum load: 20 lbs (9 kg)	Base overall dimensions: 12" x 13" x 5 1/2" (33 cm x 31 cm x 14 cm) 115v	1
7743-10230	Speed range: 0 - 30 oscillations per minute +/- 2% -Timer range: 3 - 120 minutes -Range of motion: 0-12 degrees (adjustable) -Base weight: 11.6 lb (5.3 kg) -Electrical rating: 230 +/-10 vac @ 50/60 hz line voltage, 1 AMP -Maximum load: 20 lbs (9 kg) -Environmental conditions (operating): indoor use, pollution degree 2, 4° to 50°C, relative humidity 0-90%, non-condensing	Base overall dimensions: 12" x 13" x 5 1/2" (33 cm x 31 cm x 14 cm) 230v	1

3 TIER ROCKER TRAY

7740-00030



7744-08800



Item Number	Description	Size	Case Qty
7740-00030	-Approximately 2" between trays -SST & no liners	11 x 7 x 4 5/8"	1
7744-08240	Material: .125" alum Positions: 32"	Dimensions: 16 1/4" w x 10 5/8" d x 3 1/8" t	1
7744-08800	Material: .125" alum Positions: 8"	Dimensions: 27 x 41cm	1

TRAY CONVERSION KIT FOR OLD STYLE ORBITAL SHAKER

Item Number	Case Qty
7744-31020	1

This is a conversion kit for old style orbital shakers only. The old style design mounting plate was bolted to the platform tray. This kit will make the unit to a peg and grommet design.

- Only for 7744-Series Orbital Shakers
- Contact Service/Repair for documentation

STANDARD ORBITAL SHAKER

The Bellco Benchtop Orbital Shakers are ideal for staining and washing electrophoresis gels or for any applications requiring mixing or agitation of solutions. They are engineered to operate between the limits of 30 and approximately 350 revolutions per minute, and to hold their speed at any selected setting to approximately plus or minus five percent.

7744-01000



- 7744-01010, 7744-10220 & 7744-01100 units have a platform deck of 25 x 25 cm

- 7744-02020, 7744-20220 & 7744-02200 units have a platform deck 50 x 50 cm

Item Number	Description	Size	Case Qty
7744-00100	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs)	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11)	1
7744-01000	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs)	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11)	1
7744-02000	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs)	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11)	1
7744-01100	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs) -Electrical: 100 +/-10 vac @ 50/60 hz line voltage, 1.0 AMP @ 100v, 50 hz power consumption	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11) 100v	1
7744-02200	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs) -Electrical: 100 +/-10 vac @ 50 hz line voltage, 1.0 AMP @ 100v, 50 hz power consumption	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11) 100v	1
7744-01010	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs) -Electrical: 115 +/-10 vac @ 60 hz line voltage, 1.0 AMP @ 115v, 60 hz power consumption	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11) 115v	1
7744-02020	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs) -Electrical: 115 +/-10 vac @ 60 hz line voltage, 1.0 AMP @ 115v, 60 hz power consumption	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11) 115v	1
7744-10220	-Load 11 kg 25 lb -Maximum speed range 10-350 rpm -Circular orbit 25cm 1 -Weight 76 kg 17 lbs	Dimensions: (without tray) 130 cm x 280 cm x 280 cm (5 x 11 x 11) 230v	1
7744-20220	Speed range: 30 - 350 rpm +/- 5% -Circular orbit: 2.5 cm (1") orbit -Load: 11 kg (25 lbs) maximum -Weight: 7.6 kg (17 lbs)	Dimensions: (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5 x 11 x 11) 230v	1

BENCHTOP EQUIPMENT

MINI ORBITAL SHAKER

The Bellco Benchtop Mini Orbital Shakers are ideal for both rigid polystyrene and flexible polyvinyl 96-well micro tube plates commonly used in cell culture, virology, immunology and serology. They are engineered to operate between the speed range of 50 to 1550 rpm and have a 100 second timer for reproducing mixing times or can be used in continuous operation. The true orbital motion results in increased mixture homogeneity compared with oscillating or vibrating shakers. The cast iron ballast eliminates walking of unit and handles allow easy movement within the laboratory.

7744-08115



Item Number	Description	Size	Case Qty
7744-08096	Load: 11kg (25 lbs) maximum -Speed range: 50-1550 rpm +/- 5% -Circular orbit: 1.6mm (1/16") -Weight of unit: 7.6 kg (17 lbs)	Physical dimensions (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5" x 11" x 11") 115v	1
7744-08196	Load: 11kg (25 lbs) maximum -Speed range: 50-1550 rpm +/- 5% -Circular orbit: 1.6mm (1/16") -Weight of unit: 7.6 kg (17 lbs)	Physical dimensions (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5" x 11" x 11")	1
7744-89622	Load: 11kg (25 lbs) maximum -Speed range: 50-1550 rpm +/- 5% -Circular orbit: 1.6mm (1/16") -Weight of unit: 7.6 kg (17 lbs)	Physical dimensions (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5" x 11" x 11")	1
7744-08100	Load: 11kg (25 lbs) maximum -Speed range: 50-1550 rpm +/- 5% -Circular orbit: 1.6mm (1/16") -Weight of unit: 7.6 kg (17 lbs) -Electrical: 100 +/-10 vac @ 50/60 hz line voltage, 1.0 AMP 100v 50 hz power consumption	Physical dimensions (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5" x 11" x 11")	1
7744-08115	Load: 11kg (25 lbs) maximum -Speed range: 50-1550 rpm +/- 5% -Circular orbit: 1.6mm (1/16") -Weight of unit: 7.6 kg (17 lbs) -Electrical: 115 +/-10 vac @ 60 hz line voltage, 1.0 AMP 115v 60 hz power consumption	Physical dimensions (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5" x 11" x 11")	1
7744-08230	Load: 11kg (25 lbs) maximum -Speed range: 50-1550 rpm +/- 5% -Circular orbit: 1.6mm (1/16") -Weight of unit: 7.6 kg (17 lbs)	Physical dimensions (without tray): 13.0 cm x 28.0 cm x 28.0 cm (5" x 11" x 11")	1

7744-08115
With Tray 7744-08800



BENCHTOP EQUIPMENT

MICRO ORBITAL SHAKER

The Bellco Benchtop 12 V Micro Orbital Shakers are ideal for both rigid polystyrene and flexible polyvinyl 96-well micro tube plates commonly used in cell culture, virology, immunology and serology. They are engineered to operate between the speed range of 0 to 1150 rpm and have a 5 minute timer for timed mixing continuous operation. The true orbital motion results in increased mixture homogeneity compared with oscillating or vibrating shakers.

7745-10115



Item Number	Description	Size	Case Qty
7745-10115	Load: 3 lb max -Speed range: 60-1150 rpm -Orbit: 0.8mm (1/32") eccentric, 1.6 (1/16") orbit -Weight of units : 8 lbs (3.6kg) -Electrical rating: 115 +/- 10 vac @ 60 line voltage -1.0 AMP @ 115v, 60hz power consumption	Dimensions: (witho tray): 20.3 cm x 21.0 cm x 14.0 cm (8" x8.5" x5.5")	1
7745-10230	Load: 3 lb max -Speed range: 60-1150 rpm -Orbit: 0.8mm (1/32") eccentric, 1.6 (1/16") orbit -Weight of units : 8 lbs (3.6kg) -Electrical rating: 230 +/- 10 vac @ 50/60 line voltage -0.5 AMP @ 230v, 50hz power consumption	Dimensions: (witho tray): 20.3 cm x 21.0 cm x 14.0 cm (8" x8.5" x5.5")	1

HOT SHAKER PLUS

Bellco's Sci-ERA Hot Shaker Plus is a slow speed, large orbit shaker for the incubation of electrophoretic gels and filter hybridization media. Stringent temperature control with a sensitivity of +/-0.1oC is useful for many biochemical assays. This Bellco design incorporates a seamless stainless steel lined temperature controlled water bath mounted on a low-profile one inch orbiting platform.

The unique chamber design offers simple containment of potential spills. The chamber is completely isolated from electromechanical components. The Sci-ERA Hot Shaker Plus has an audible over-temperature alarm. Built-in safety features prevent heater burn-out. An easy-to-use microprocessor controller offers stringent temperature control.

Item Number	Description	Size	Case Qty
7746-22110	Orbit: 1" (one inch) -Overall dimensions: 56 x 56 x 33 (w x d x h cm) -Volume: 3 gallon (12l) -Speed range: 0 - 85 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C -Electrical rating: 115 +/- 10 vac @ 60 line voltage, 5.0 AMP @ 115v, 60hz power consumption	Chamber dimensions: 42 x 27 x 10 (w x d x h cm) 115v	1
7746-22220	Orbit: 1" (one inch) -Overall dimensions: 56 x 56 x 33 (w x d x h cm) -Volume: 3 gallon (12l) -Speed range: 0 - 85 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C -Electrical rating: 230 +/- 10 vac @ 50/60 line voltage, 3.0 AMP @ 230v, 50hz power consumption	Chamber dimensions: 42 x 27 x 10 (w x d x h cm) 230v	1

BENCHTOP EQUIPMENT

HEAVY DUTY RECIPROCATING SHAKER

The unit is a laboratory shaker with a reciprocating stroke adjustable for 1", 1 3/4" and 2 1/2". It is designed to shake clear plastic culture bags with working volumes between 5 & 10 liters, as well as function as a general purpose laboratory shaker. The unit incorporates a digital speed control and 50W brushless DC motor and runs on plastic raceways for minimal noise. Speed is controlled with a numbered dial located on the front of the unit and ranges from 5 to 150 cycles/min approximately. Units are powered by standard 24V in-line power supplies and are CE compliant. The Optima™ bag trays are sold separately. Speed range: 5-150 cycles/minute approx.

- Max load: 35 lbs (16 kg) maximum, evenly distributed
- Dimensions: 16" w x 18 1/2" d x 7 1/2" h
- Weight: 25 lbs (11.3 kg) approx.
- Electrical: 24v power transformer, supplied; 230v/24v fused at 2 AMP
- Bench space required: 18" w x 18 1/2"

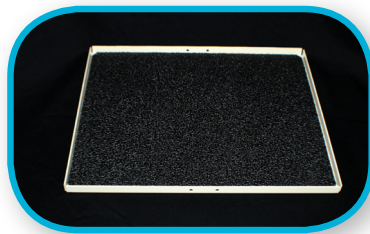
Item Number	Description	Size	Case Qty
7644-30115	Speed range: 5-150 cycles/minute Electrical: 24v power transformer, supplied; 115v/24v fused at 2 AMP	115v	1
7644-30230	Speed range: 5-150 cycles/minute Electrical: 24v power transformer, supplied; 230v/24v fused at 2 AMP	230v	1
7644-31115	Speed range: 5-150 cycles/minute approx. Electrical: 24v power transformer, supplied; 115v/24v fused at 2 AMP	115v	1
7644-31230	Speed range: 5-150 cycles/minute approx. Electrical: 24v power transformer, supplied; 230v/24v fused at 2 AMP	230v	1

BACK-TO-BASICS II RECIPROCATING SHAKER TRAY

This tray only fits the back-to-basics II reciprocating shaker units. Includes rubber mat with peg and grommet design.

Customer must use this tray or stainless steel tray 7677-32010 for reciprocating shaker units.

7677-31010



Item Number	Size	Case Qty
7677-31010	10 x 10"	1
7677-32010	10 x 10"	1

BENCHTOP EQUIPMENT

HOT SHAKER

The Bellco Sci-ERA Dual Pan Hot Shaker is a slow speed, large orbit shaker with two independently controlled baths for incubation of electrophoretic gels and filter hybridization media. Stringent temperature control with a sensitivity of $\pm 0.1^\circ\text{C}$ is useful for many biochemical assays.

This Bellco design incorporates two seamless stainless steel lined temperature controlled water baths mounted on a low-profile one inch orbiting platform. The unique chamber design offers simple containment of potential spills. The chambers are completely isolated from electromechanical components.

The Sci-ERA Dual Pan Hot Shaker has audible over-temperature alarms and built-in safety features to prevent heater burn-out. An easy-to-use microprocessor controller offers stringent temperature control.

7746-32110

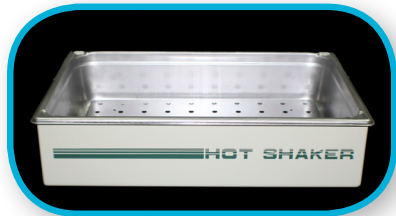


Item Number	Description	Size	Case Qty
7746-32110	Dual Pan Orbit: 1" (one inch) -Chamber dimensions: 20 x 27 x 10 (w x d x h cm) -Volume: 1 1/4 gallon (5l) per pan -Speed range: 0 - 85 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C	Overall dimensions: 56 x 56 x 33 (w x d x h cm)	1
7746-32220	Dual Pan Orbit: 1" (one inch) -Chamber dimensions: 20 x 27 x 10 (w x d x h cm) -Volume: 1 1/4 gallon (5l) per pan -Speed range: 0 - 85 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C	Overall dimensions: 56 x 56 x 33 (w x d x h cm)	1
7746-42115	Orbit: 1" (one inch) -Chamber dimensions: 42 x 27 x 10 (w x d x h cm) -Volume: 3 gallon (12l) -Speed range: 0 - 75 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C -Electrical rating: 115 +/- 10 vac @ 60 hz line voltage, 5.0 AMP @ 115v, 60 hz power consumption."	Low Profile Single Pan Overall dimensions: 56 x 52 x 24 (w x d x h cm)	-
7746-42230	Orbit: 1" (one inch) -Chamber dimensions: 42 x 27 x 10 (w x d x h cm) -Volume: 3 gallon (12l) -Speed range: 0 - 75 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C -Electrical rating: 230 +/- 10 vac @ 50/60 hz line voltage, 3.0 AMP @ 230v, 50 hz power consumption	Low Profile Single Pan Overall dimensions: 56 x 52 x 24 (w x d x h cm)	-
7746-52115	Orbit: 1" (one inch) -Chamber dimensions: 27 x 20 x 10 (w x d x h cm) -Volume: 1 1/4 gallon (5l) per pan -Speed range: 0 - 75 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C -Electrical rating: 115 +/- 10 vac @ 60 line voltage, 5.0 AMP @ 115v, 60hz power consumption	Low Profile Dual Pan Overall dimensions: 56 x 52 x 24 (w x d x h cm)	-
7764-52230	Orbit: 1" (one inch) -Chamber dimensions: 27 x 20 x 10 (w x d x h cm) -Volume: 1 1/4 gallon (5l) per pan -Speed range: 0 - 75 oscillations per minute -Temperature control: 18°C or ambient +5°C (whichever is higher) to 99.9°C -Electrical rating: 230 +/- 10 vac @ 50/60 hz line voltage, 3.0 AMP @ 230v, 60 hz power consumption."	Low Profile Dual Pan Overall dimensions: 56 x 52 x 24 (w x d x h cm)	-

BENCHTOP EQUIPMENT

REPLACEMENT PAN & COIL

7746-22222

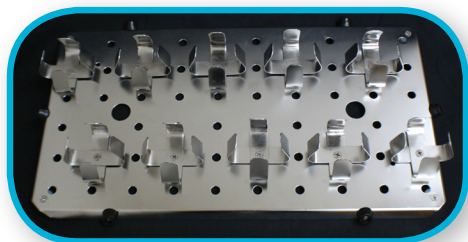


Item Number	Description	Size	Case Qty
7746-22222	Hot Shaker Plus Replacement Pan 115v	115v	1
7746-22230	Hot Shaker Plus Replacement Pan 230V.	230v	1

HOT SHAKER FLASK TRAY

Stainless steel tray measures 9.75" x 17.75" and includes 10 stainless steel clamps for Erlenmeyer flasks.

7746-10125

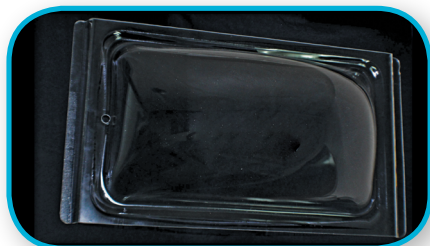


Item Number	Description	Size	Case Qty
7746-10125	Stainless steel	125mL	1
7746-10250	Stainless steel	250mL	1
7746-10500	Stainless steel	500mL	1

HOT SHAKER DOME COVER

Clear Plexiglass dome shape cover for Single Pan Hot Shakers. Can withstand continuous heat (180°-200°F) for long periods of time.

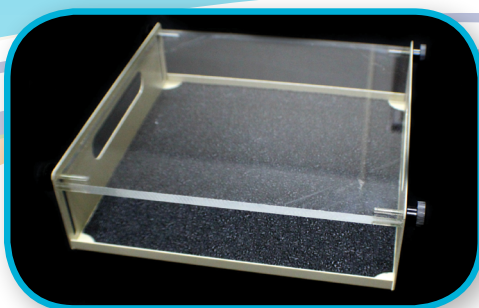
7746-12400



Item Number	Description	Size	Case Qty
7746-12400	1/2" hole for Thermowell -Material: 3/16" thick clear Plexiglas -forming: 290°f -215°f - dry sterilization"	Dimensions: 21 5/8" wide x 13" deep x 4 3/4" height	1
7746-32400	Single pan plastic dome cover is constructed from 3/16" Plexiglas	Dimensions: 21 5/8" wide x 13" deep x 4 3/4" height	1

HOT SHAKER ACCESSORY TRAY

7644-12012



Item Number	Description	Size	Case Qty
7644-12012	HTS Accessory Tray 12" x 12" for Micro-plates. Holds 24 micro-plates"	30 x 30cm	1

OVER HEAD DRIVE

DIGITAL OVER HEAD DRIVE

The Bellco Digital Overhead Drive is a versatile direct-drive agitator for cell culture and most aseptic mixing applications. The Overhead Drives were developed to eliminate the problem of magnetic agitator decoupling often observed in large volume mixing and the stirring of solutions with a viscosity greater than water. The Overhead Drives feature brushless, maintenance-free DC motors with drive assemblies designed for quiet operation. Units are powered by a 24VDC power supply (included) and are CE compliant.

7774-10115



Item Number	Description	Size	Case Qty
7774-10115	Speed range: 5 - 150 rpm +/- 2% -Electrical: 115v/24v fused at 1 AMP -Brushless motor for low maintenance -Reverse direction switch -Easy mounting bracket with 'peg & grommet' design -Standard models: 19 in-lb torque, 30w	Dimensions: 4.5" x 5.5" x 8" (11 x 14 x 20cm) includes handle 115v	1

7774-10230	Speed range: 5 - 150 rpm +/- 2% -Electrical: 230v/24v fused at 1 AMP -Brushless motor for low maintenance -Reverse direction switch -Easy mounting bracket with 'peg & grommet' design -Standard models: 19 in-lb torque, 30w	Dimensions: 4.5" x 5.5" x 8" (11 x 14 x 20cm) includes handle 230v	1
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HI-TORQ DIGITAL OVER HEAD DRIVE

The Bellco High Torque Digital Overhead Drive is a versatile direct-drive agitator for cell culture and most aseptic mixing applications. The Overhead Drives were developed to eliminate the problem of magnetic agitator decoupling often observed in large volume mixing and the stirring of solutions with a viscosity greater than water. The High Torque model is ideal for the agitation of medium to viscous liquids. The Overhead Drives feature brushless, maintenance-free DC motors with drive assemblies designed for quiet operation. Units are powered by a 24VDC power supply (included) and are CE compliant.

7774-30115



Item Number	Description	Size	Case Qty
7774-30115	Speed range: 5 - 150 rpm +/- 2% -Electrical: 115v/24v fused at 2 AMP -Brushless motor for low maintenance -Reverse direction switch -Easy mounting bracket with 'peg & grommet' design -Hi-torque models: 31 in-lb torque, 50w	Dimensions: 9.5" x 6" x 7.5" (24 x 15 x 19cm) includes handle 115v	1

7774-30230	Speed range: 5 - 150 rpm +/- 2% -Electrical: 230v/24v fused at 2 AMP -Brushless motor for low maintenance -Reverse direction switch -Easy mounting bracket with 'peg & grommet' design -Hi-torque models: 31 in-lb torque, 50w	Dimensions: 9.5" x 6" x 7.5" (24 x 15 x 19cm) includes handle 230v	1
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PROCESS OVER HEAD DRIVE

The Bellco Process Controlled Overhead Drive is a versatile direct-drive agitator for cell culture and most aseptic mixing applications. The Overhead Drives were developed to eliminate the problem of magnetic agitator decoupling often observed in large volume mixing and the stirring of solutions with a viscosity greater than water. The Overhead Drives feature brushless, maintenance-free DC motors with drive assemblies designed for quiet operation. Both units are powered by standard 24V wall mounted power supplies and are CE compliant.

Item Number	Description	Size	Case Qty
7774-20115	Speed range: 5 - 150 rpm +/- 1% -Electrical: 115v/24v fused at 1 AMP -Brushless motor for low maintenance -Reverse direction switch -Rs485 network port -Easy mounting bracket with 'peg & grommet' design -Standard models: 19 in-lb torque, 30w"	Dimensions: 4.5" X 5.5" X 8" (11 X 14 X 20cm) includes handle 115v	1
7774-20230	Speed range: 5 - 150 rpm +/- 1% -Electrical: 230v/24v fused at 1 AMP -Brushless motor for low maintenance -Reverse direction switch -Rs485 network port -Easy mounting bracket with 'peg & grommet' design -Standard models: 19 in-lb torque, 30w"	Dimensions: 4.5" x 5.5" x 8" (11 x 14 x 20cm) includes handle 230v	1

HI-TORQ PROCESS OVER HEAD DRIVE

The Bellco High Torque Process Controlled Overhead Drive is a versatile direct-drive agitator for cell culture and most aseptic mixing applications. The Overhead Drives were developed to eliminate the problem of magnetic agitator decoupling often observed in large volume mixing and the stirring of solutions with a viscosity greater than water. The Overhead Drives feature brushless, maintenance-free DC motors with drive assemblies designed for quiet operation. Both units are powered by standard 24V wall mounted power supplies and are CE compliant.

7774-40115



Item Number	Description	Size	Case Qty
7774-40115	Speed range: 5 - 150 rpm +/- 1% -Electrical: 115v/24v fused at 2 AMP -Brushless motor for low maintenance -Reverse direction switch -Rs485 network port -Easy mounting bracket with 'peg & grommet' design -Hi-torque models: 31 in-lb torque, 50w	Dimensions: 9.5" x 6.0" x 7.5" (24 x 15 x 19cm) includes handle 115v	1
7774-40230	Speed range: 5 - 150 rpm +/- 1% -Electrical: 230v/24v fused at 2 AMP -Brushless motor for low maintenance -Reverse direction switch -Rs485 network port -Easy mounting bracket with 'peg & grommet' design -Hi-torque models: 31 in-lb torque, 50w	Dimensions: 9.5" x 6.0" x 7.5" (24 x 15 x 19cm) includes handle 230v	1

OVENS

AUTO-BLOT MICRO HYBRIDIZATION OVEN

The Bellco Auto-blot Micro Hybridization Oven consists of an incubator with an integral rotisserie device.

The rotisserie has the capacity for up to 4 large hybridization bottles or 8 small hybridization bottles. Alternatively, any combination of large or small bottles can be used. This Auto-blot Micro Hybridization Oven features an advanced temperature controller for precise control of oven temperature.

Item Number	Description	Size	Case Qty
7930-00100	Rotisserie	100v	1
7930-00110	Rotisserie	115v	1
7930-00200	Rotisserie	230v	1
7930-00115	Without Rotisserie	115v	1
7930-01230	Without Rotisserie	230v	

AUTO-BLOT MINI HYBRIDIZATION OVEN

The Bellco Auto-blot Mini Hybridization Oven consists of an incubator with an integral rotisserie device.



7930-10110

The rotisserie has the capacity for up to 6 large hybridization bottles or 12 small hybridization bottles. Alternatively, any combination of large or small bottles can be used.

This Auto-blot Mini Hybridization Oven features a rotisserie with increased capacity, variable speed rotisserie motor for better agitation and an advanced temperature controller for precise control of oven temperature.

Item Number	Description	Size	Case Qty
7930-10110	Rotisserie	115v	1
7930-10220	Rotisserie	230v	1
7930-11115	Without Rotisserie	115v	1
7930-11230	Without Rotisserie	230v	1

ROCKER PLATFORM FOR MINI OVEN

Stainless steel rocker platform fit Bellco micro and mini ovens. Platform has 3 settings at 2.5 degree to 6 degrees from horizontal and adapts to existing rotisserie hardware.

Item Number	Description	Size	Case Qty
7930-50100	Dimensions: 29x16cm (11.5" X 6.5")	29 x 16cm	1

4-6 POSITION ROTISSERIE FOR MINI & MICRO OVEN



7930-20100

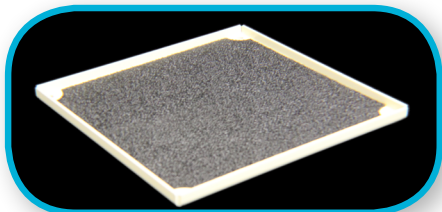
Item Number	Description	Case Qty
7930-20100	Accepts 8 short or 4 long 35mm auto-blot tubes	1
7930-30100	Accepts 12 short or 6 long 35mm auto-blot tubes	1

BENCHTOP EQUIPMENT

TRAYS

TRAY WITH & WITHOUT POST

7744-01010



Item Number	Description	Size	Case Qty
7740-00010	Tray with Post	25 x 25cm	1
7740-00020	Tray with Post	51 x 51cm	1
7740-01010	No Post	25 x 25cm	1
7740-01014	No Post	25 x 35cm	1
7740-01212	No Post	30 x 30cm	1
7740-02020	Not Post	51 x 51cm	1

STAINLESS STEEL PLATFORM TRAY

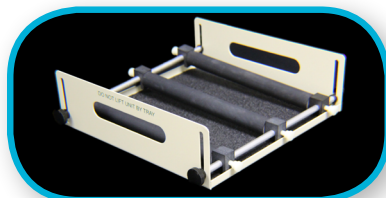
7740-02535



Item Number	Size	Case Qty
7740-02525	10 x 10"	1
7740-02535	10 x 14"	1
7740-03030	12 x 12"	1
7740-05151	20 x 20"	1

FLASK LOCKING TRAY

7743-12012



Item Number	Size	Case Qty
7743-12012	12 x 12"	1
7743-12020	12 x 20"	1
7743-20020	20 x 20"	1

EXTRA DIVIDER

Replacement divider for flask locking tray.

- Locking clamps - 2ea
- Roller shaft - 1ea
- Flask rubber roller - 1ea
- White thumb screws - 2ea

Item Number	Size	Case Qty
7743-12112	To fit:7743-12012 - 12x12 To fit:7743-12020 - 12x20 trays	1

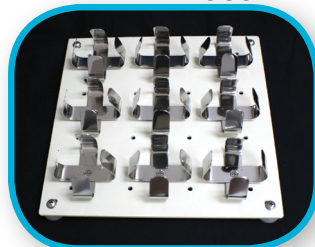
7743-12112



FLASK TRAY

Pre-mounted stainless steel clamps for Bellco Erlenmeyer flask. Flask Tray fits on top of the standard tray platform. Includes clamps.

7744-12509



Item Number	Description	Size	Case Qty
7744-05016	Flask positions: 16	Dimensions: 25 x 25cm	50ml 1
7744-05049	Flask positions: 49	Dimensions: 51 x 51cm	50ml 1
7744-12509	Flask positions: 16	Dimensions: 25 x 25cm	125ml 1
7744-12525	Flask positions: 16	Dimensions: 51 x 51cm	125ml 1
7744-25005	Flask position: 16	Dimensions: 25 x 25cm	250ml 1
7744-25016	Flask positions: 16	Dimensions: 51 x 51cm	250ml 1
7744-50004	Flask positions: 9	Dimensions: 25 x 25cm	500ml 1
7744-10009	Flask positions: 9	Dimensions: 51 x 51cm	1L 1
7744-10004	Flask positions: 4	Dimensions: 25 x 25cm	1L 1

BENCHTOP EQUIPMENT

FLASK CLAMP TRAY

Flask clamps and universal platforms for shakers. Fits onto standard platforms. Purchase individual pieces to build various configurations.



7744-16025

Item Number	Description	Size	Case Qty
7744-16025	Tray accepts 9	25x25cm	1
7744-16050	Tray accepts 25	51x51cm	1
7744-16125	Tray accepts 9	25x25cm	1
7744-16250	Tray accepts 25	51x51cm	1
7744-16500	Tray accepts 9	25x25cm	1
7744-16100	Tray accepts 25	51x51cm	1
7744-16200	Tray accepts 9	25x25cm	1

PIPET PLUGGER

The Bellco Pipette Plugger is designed for plugging a full range of standardized cotton plugging pipettes. This unit has three speeds and can be adjusted quickly and easily to plug 40, 50 or 60 pipettes per minute. The unit will produce uniform shape cotton plugs, minimizing the problem of tight and loose plugs. Machine is portable with a convenient carrying handle. Time tested design with a precision Geneva mechanism.

7750-11220



- Speed Range: 3 Settings, Approximately 40/50/60 Pipettes/Minute
- Weight: 19 Lbs. (9.0 Kg)
- Operates In: Continuous Or Actuate Mode
- Supplied With 1 Bag Of Cotton Roving 7750-22222

Item Number	Description	Size	Case Qty
7750-11111	115±10vac@60 Hz Line Voltage, 1 Amp @ 115v, 60 Hz Power Consumption	115v 25cm X 28cm X 24cm (WxDxH)	1
7750-11220	230±10vac@50/60 Hz Line Voltage, 0.5 Amp @ 230v, 50 Hz Power Consumption.	230v 25cm X 28cm X 24cm (WxDxH)	1

BENCHTOP EQUIPMENT

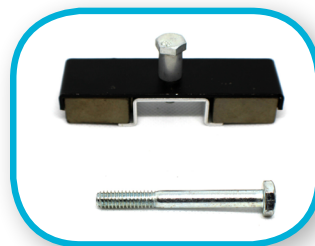
PREVENTIVE MAINTENANCE KITS

Each kit includes an illustrated list for easy identification for parts.

Item Number	Description	Size	Case Qty
9000-10100	PM Kit Over Head Drive & Cap 115v	115v	1
9005-01000	Kit is for 774-01000 Rocker Platform Base unit only	115v	1
9005-02000	Kit is for 7744-02000 Rocker Platform Base unit only	230v	1
9005-08115	Kit is for 7744-08115 Mini Orbital Shaker Base unit only	115v	1
9005-08230	Kit is for 7744-08230 Mini Orbital Shaker Base unit only	230v	1
9005-10000	Kit is for 7740-10000 Rocker Platform Base unit only	115v	1
9005-10164	Kit for 7736-10164 Roller Drum	115v	1
9005-10220	Kit for 7736-10220 Roller Drum	230v	1
9005-20000	Kit is for 7740-20000 Rocker Platform Base unit only	230v	1
9005-22110	Kit is for 7746-22110 Single Pan Hot Shaker	115v	1
9005-22220	Kit is for 7746-22220 Single Pan Hot Shaker	230v	1
9005-32110	Kit is for 7746-32110 Dual Pan Hot Shaker	115v	1
9005-32220	Kit is for 7746-32220 Dual Pan Hot Shaker	230v	1
9005-70000	Kit for 7764-70000 Standard Over Head Drive Adapter	-	1
9005-71000	Kit for 7764-71000 Large Flange Drive Adapter	-	1
9005-72000	Kit for 7764-72000 Large Flange Drive Adapter high speed	-	1
9005-73000	Kit for 7764-73000 Drive Stem	-	1
9005-73100	Kit for 7764-73100 Drive Stem CellTrol	-	1
9005-74000	Kit for 7764-74000 Hi-Torq Over Head Drive Adapter	-	1

RETROFIT HEAVY DUTY MAGNETIC

9100-00010



Item Number	Case Qty
9100-00010	1
9100-00020	1

9700-10115



9700-10115



INLINE POWER SUPPLY

Power supply for over head drives.

Item Number	Size	Case Qty
9700-10115	115v	1
9700-10230	230v	1

3L Metric Bioreactor & Fermenter Systems	61	Brushless Orbital Shaker.....	125	Glass Ball Impeller.....	6
3 Tier Rocker Tray	127	Cable Ties	90	Glass Ball Spinner Flask.....	7
4-6 Position Rotisserie for Mini & Micro Oven	136	Can Mounting Plate	32	Glass COVER SLIP.....	33
4 Marine Prop with 1/2" Bore Impeller 7L	73	Cell Scraper.....	55	Glass Filter Tube Assembly	83
7L Metric Bioreactor & Fermenter	62	CellTrol Drive Stem.....	65	Glass Impeller Shaft	7
11 Mm Aluminium Seal Vial	42	CellTrol Drive Stem.....	65	Glass Probe Chamber.....	81
13 mm Screw Thread Vials	41	CellTrol Foam Probe Cable.....	65	Griffin Beaker Heavy Wall	48
15L Metric Bioreactor & Fermenter	63	CellTrol Foam Probe Cable	78	Griffin Beaker standard Wall	48
Acrodisc Filter.....	88	CellTrol Motor 115v.....	65	Hamilton Do Probe Membrane Kit.....	79
Adapter.....	92	CellTrol Speed Cable Over Head Drive 115v.....	65	Hamilton EasyFerm + K8 pH Probe Only with VP Connector	79
Additional Vent Pipe Assembly.....	87	CellTrol Speed Control Box Tethered.....	65	Hamilton Oxyferm Do Probe Only with VP Connector ...	79
Additional Vent Pipe Assembly.....	90	Class A Graduated Cylinder.....	48	Hand Operated Crimper.....	40
Adjustable Hanging Bar Spinner Flask without Bottom Dimple.....	7	Cloning Cylinders	45	Headplate Bioreactor Stand Setup.....	70
Adjusted Sample 1/8"	90	Closures & Septa.....	45	Heat Coil	69
Air Filter Tube.....	56	CO2 Tank Switch.....	102	Heavy Duty Reciprocating Shaker.....	131
Air Supply Pump 115v Impeller 7L.....	74	Coldfinger Assembly.....	83	Hi-Temp Red Pouring Ring	54
Aluminum Seal & Snap Ring Closures	45	Compression Fittings.....	86	Hi-Torq Digital Over Head Drive.....	134
Aluminum Shelf for Bench-Top Incubator	110	Conical Tissue Homogenizer with Ground Glass Tube & Pestle	35	Hi-Torq Over Head Drive Adapter	90
Anaerobic agar bottle complete	50	Cooling Finger Assembly	83	Hi-Torq Process Over Head Drive.....	135
Anaerobic Bottle w/ Screw Cap.....	50	Cooling Valve	66	Homogenizer Drive.....	35
Anaerobic Media Bottle.....	50	Cover Slip Vac	32	Hot Shaker	132
Anaerobic Tube Only.....	40	Culture Tube Rack	39	Hot Shaker Accessory Tray.....	133
Anaerobic Tube & Stopper	40	DeLong Culture Flask with Stainless Steel Closure	11	Hot Shaker Dome Cover	133
Angled Harvest Pipe Assembly.....	89	DeLong Culture Flask without Closure.....	11	Hot Shaker Flask Tray.....	133
Angled Sample Pipe Assembly	89	Digital Bottom & Top Drive Roller Apparatus.....	101	Hot Shaker Plus	130
Anti Foam Level Probe Assembly.....	90	Digital Mini Orbital Shaker	125	Hungate Type Anaerobic Culture Tube.....	38
Aseptic Sampler System.....	92	Digital Over Head Drive.....	134	Idler & Drive Roller Assembly	114
Auto-blot Micro Hybridization Oven.....	136	Digital Rocker	127	Impeller Assemblies	22
Auto-blot Mini Hybridization Oven.....	136	Disinfectant Cylinder.....	45	Impeller Assembly.....	4
Autoclave Sterilization Bags.....	46	DO & pH Simulator Kit	82	Inline Power Supply	139
Back To Basics II Bench-Top Roller Apparatus.....	115	DO Polarizer Station	81	Insect Cell Culture System	120
Back-To-Basics II Reciprocating Shaker Tray	131	DO Membrane Kit.....	82	Internal Overhead Bearing Impeller with Cap.....	6
Back To Basics II Rocker.....	124	DO Probe Polarizer	81	ISO 9001	1
Back to Basics II Shaker with Power Supply	124	DO Tester Cable.....	81	KAP-UTS	44
Back To Basic Stacking Tray for Rocker	124	Double Window Refrigerated Roll-In Incubator	97	Large Flange Drive Adapter.....	86
Baffle Assembly	84	Double Window Refrigerated Roll-In Incubator.....	98	Large Flange Headplate Assembly.....	69
Basic Pipet Aid.....	57	Dual CellTrol pH DO Temperature.....	64	Large Flange Omni Paddle	85
BCS Starter Kit	82	Economy Roller Apparatus 2 & 4 Position	113	Large Flange Omni Vessels 5L-36L Flat & Round Bottom	66
Bellco CO2 Incubator	96	Erlenmeyer Flask Narrow Mouth	10	Large Flange O-Ring Only	85
Bellco Control System, Flat Bottom	86	Erlenmeyer Flask w/GL45 Linerless Polypropylene Screw Cap & Pouring Ring	14	Large Flange Stainless Steel CIAMP.....	85
Bellco Heating Blanket.....	68	Erlenmeyer Flask with Break Resistant Lip.....	12	Large Flange Z/Z Paddle.....	85
Bell-ennium Digital Magnetic Stirrer.....	118	Erlenmeyer Flask with Phenolic Rubber Lined Screw Cap.....	13	Large Orifice Serological Pipette with Cotton Plugging Top	30
Bell-ennium Digital Motion Alarm	120	Extra Divider	137	Leighton Tube Rack.....	37
Bell-ennium Process Magnetic Stirrer.....	121	Fernbach Falsk with 3 Sided Baffles & Break Resistant Lip.....	15	Leighton TubeS	37
Bell-ennium Process Motion Alarm	120	Fernbach Flask with 3 Bottom Baffles & 38mm DeLong Neck	16	LH Pitch Blade Impeller.....	70
Bell-Flo Spinner Flask.....	6	Fernbach Flask w/3 Sided Baffles & GL45 Polypropylene Linerless Cap	15	Low Profile Brushless Digital Roller Drum Base.....	117
Bell-Flo Spinner Flask IOB Impeller Assembly	6	Fernbach Flask w/ GL45 Polypropylene Membrane Cap & Pouring Ring	15	Low Profile Stainless Steel Impeller 3L Impeller 7L	73
Bell-Stir Magnetic Stirrer	123	Fernbach Flask without Baffles	15	Low Speed CellTrol Motor 10L 115v.....	65
Bench-Top 2 Position Modular Deck	115	Fixed Frame Roller Apparatus.....	98	Masterflex Low Speed Peristaltic Pump	74
Bench-Top Roller Apparatus	111	Flask Carrier.....	66	Media Bottle W/Blue Storage Cap	51
Bio-Probe Flask	22	Flask CIAMP Tray.....	138	Media Storage Bottle with Blue Polypropylene Linerless Cap.....	49
Bioreactor Heating Blanket	68	Flask Locking Tray	137	Media Storage Bottle without Cap Clear & Amberized.....	51
Bioreactor Hose Barb Assembly.....	91	Flask Tray.....	137	Media Storage & Dispensing Flask with Break Resistant Lip	16
Bioreactor Stand with Bolts.....	67	Foam Level Cable	78	Membrane Screw Cap	54
Bioreactor Vessel.....	67	Foam Level Probe	79	Metric Bioreactor Stand.....	67
Biovortexer Motor	35	Foam Probe Fitting	78	Metric Drive Stem Assembly	87
Black Phenolic Screw Cap.....	53	Gas Liquid Addition Assembly.....	83	Metric Headplate.....	70
Black Phenolic Screw Cap Assembly for Adjustable Hanging Bar Spinner Flask	44				
Broadly James D4 Lemo DO Probe Cable	76				
Broadly James OxyProbe DO Probe	76				

Mettler Ingold DO Probe PTFE	77	Rushton Impeller Assembly	71	Tray with & without Post	137
Mettler Ingold Do Probe PTFE with VP Connector	78	SBD & Alarm Retrofit 100V	105	Triple & Quad Universal Addition Assembly	84
Mettler Ingold pH Probe & Cable	77	Sci/Era Cell Production Roller Apparatus	102	Trypsinizing Flask w/3 Deep Side Baffles & 15-415 Sidearm	19
Mettler Ingold pH Probe with VP Connector	77	Sci/Era Fixed Frame Roller Apparatus.....	102	Valley Instruments Heating Blankets.....	68
Micro-Carrier Cap Assembly.....	6	Sci/Era Modular Roller Apparatus with Stand-by Drive & Alarm	103	Vertical Disk Impeller	71
Micro-Carrier Glass Shaft Assembly	7	Screw Cap Culture Tube Round Bottom 16X150mm with Bellco logo	38	Vertical Sidearm Sample System.....	88
Micro-Carrier Impeller Assembly	4	Screw Thread Vials.....	41	Vial Accessories.....	42
Micro-Carrier Spinner Flask	5	Serological Pipette Plain Top	28	Volumetric Flask Clear TC & Amber Stained TC	14
Micro-Carrier Spinner Flask	4	Serological Pipette Plain Top Bulk-pak	27	Water Jacketed Bioreactor Vessel	67
Micro-Orbital Shaker	130	Serological Pipette with Cotton Plugging Top.....	28	Water Jacketed Spinner Flask	5
Microscope Slides.....	55	Serological Pipette with Cotton Plugging Top Bulk-Pak ..	27		
MINI Orbital Shaker.....	129	Serological Pipette with Cotton Plugging Top Mixed Bulk-Pak	27		
Mini Roll-In Refrigerated Bench-Top Incubator.....	109	Serological Plain Top "SHORTIE" Pipette.....	29		
Mini Tube Roller	114	Serological Plain Top "SHORTIE" Pipette Bulk-pak	28		
Modular Cell Production Roller Apparatus.....	99	Shake Flask with 3 Extra Deep Side Baffles.....	20		
Nephelo Culture Flask with 25mm Stainless steel Closure	17	Shake Flask with 3 Side Baffles & Break Resistant Lip ..	19		
Nephelo Culture Flask with Cleanout Port & 38mm Cap	17	Shake Flask with 3 Side Baffles DeLong Style Neck.....	18		
Nephelo Flask with 3 Baffle & Clean-out Port & 38mm Cap.....	17	Shake Flask with 3 Side & Bottom Baffles with Membrane Cap & Pouring Ring	21		
Nephelo Flask with 3 Bottom Baffles & 25mm Stainless steel Closure	18	Shake Flask with 4 Bottom Baffles & Constriction	21		
Nylon Mesh	56	Shake Flask with 3 Extra Deep Side Baffles & Break Resistant Lip	10		
Open Top Screw Cap.....	53	Silicone Headplate O-Ring	70		
O-Ring Replacement Kit	82	Silicone Sponge Closure	43		
Over Head Drive Metric Drive Stem Assembly	88	Silicone Tubing.....	56		
Petri Dish Spreader	55	Single CellTrol pH DO Temperature	64		
Pipe Assembly	90	Single Window Refrigerated	97		
Pipet Plugger	138	Single Window Standard Roll In Incubator	96		
Pipette Canister Cushion PTFE	31	Slow Speed Kit	104		
Plain Top Culture Tube Round Bottom	37	Snap-Ring Vials	41		
Polarizer Tester	81	Spinner Flask Standard.....	5		
polypropylene pouring ring.....	54	Square Media Storage Bottle with Blue Polypropylene Linerless Cap.....	50		
Portable Pipet Aid	57	Stainless Steel Bioreactor Headplate	69		
Portable Pipet Aid XP	57	Stainless Steel Fitting with Cap.....	91		
Premium Pouring Ring	54	Stainless Steel Hi-Torq Over Head Drive Impeller Full & Short Width	72		
Premium SCREW CAP.....	53	Stainless Steel Hi-Torq Over Head Drive Impeller Full & Short Width	72		
Pressure Relief Valve	91	Stainless Steel Incubator Shelf for Bellco Roll-In Incubator	104		
Preventive Maintenance Kits.....	139	Stainless Steel Marine Shaft with Clip	73		
Probe Holder	80	Stainless Steel Pitch Blade Impeller 7L	73		
Probe Replacement (Inner Body) New Style Probes.....	81	Stainless Steel Probe Adapter Extension	80		
Process Bottom & Top Drive Roller Apparatus	100	Stainless Steel Probe Cap-Seal with PTFE IOB	80		
Process Over Head Drive.....	135	Stainless Steel Removable Baffle.....	84		
PTFE Ferule for Foam Probe	78	Stainless Steel Shaft Assembly	92		
PTFE Silicone Septa	44	Stainless Steel Straight Harvesting Pipe Assembly.....	89		
PTFE Stirring Bar	34	Stainless steel Tube Rack	39		
QMI-SAI GLOBAL	I	Stainless Steel Ultra-Vented Incubator Shelf.....	105		
Replacement Pan & Coil	133	Standard Bench-Top Incubator	108		
Reservoir Cap Assy	55	Standard Brushless Digital Roller Drum Base.....	116		
Retrofit Heavy Duty Magnetic	139	Standard Orbital Shaker.....	128		
Retrofit Kit 5 Position Front & Rear Mount	104	Standard Rocker	126		
RH Pitch Blade Impeller	71	STD Over Head Drive	92		
Rocker Platform for Mini Oven.....	136	Straight Sample Pipe Assembly.....	89		
Roller Bottle.....	52	Sykes-Moore Culture Chamber	34		
Roller Bottle Accessories.....	52	Tenbroeck Tissue Homogenizer with Ground Glass Tube & Pestle	35		
Roller Drum for Standard & Low Profile Units	117	Top Drive Conversion Kit	104		
Round Bottom Glass Pipette Canister	31	Tray Conversion Kit for Old Style Orbital Shaker	127		
Round Bottom Marine Impeller	71				
Round Bottom Plain Top Culture Tube (Disposable).....	37				
Round Cover Slips German Glass	33				
RTD Temperature Sensor with Cable.....	87				
Rubber Stopper	34				



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