**PELCO EASIGLOW™ GLOW DISCHARGE CLEANING SYSTEM**

A compact, quick and easy-to-use standalone system. Primarily designed for hydrophilization of TEM carbon support films which have the tendency to be hydrophobic. A glow discharge treatment with air will make the carbon film surface negatively charged (hydrophilic) which allows aqueous solution to spread easily.

The PELCO easiGlow™ is an affordable and easy-to-operate glow discharge system for any TEM lab. The practical chamber size with its newly designed glow discharge head and adjustable stage with glass slide holder allows for easy loading and fast turnaround times. The system is fully microprocessor controlled and includes an intelligent touch screen device for operation and display of operation parameters. The PELCO easiGlow™ supports both hydrophilic and hydrophobic treatment with either negative or positive charge and includes two separately controlled gas inlets. The required vacuum level is set by an electronically controlled precision proportional valve. This novel approach eliminates manual setting with a needle valve. A soft venting procedure ensures that the TEM grids are not disturbed when the system is vented.

We offer the affordable GD4 dual stage rotary vacuum pumping system, designed specifically for the optimum pressure range (0.45 to 1.1 mbar) for glow discharge procedures.

- 91000 PELCO easiGlow™ Glow Dishcharge System............ each
- 91040 GD4 Vacuum Pumping System, 4.3m³/hr incl. Connection Kit, 115V, 60Hz ............................................. each
- 91040-230 GD4 Vacuum Pumping System, 3.6m³/hr incl. Connection Kit, 230V, 50/60Hz ............................................. each

**SUPPORT FILMS FOR TRANSMISSION ELECTRON MICROSCOPY**

We offer a comprehensive line of support films and substrates, including formvar, carbon, lacey carbon, silicon monoxide. Grid choices range from 400 mesh to 1x2mm Single Slot grids, in all popular materials -- copper, nickel, gold, and more. Carbon coating is offered in different strength and transparency, from Ultrathin (3-4nm) to thicker 5-10nm to the most robust 15-30nm thick films.

**FIND OUR EXTENSIVE SELECTION OF SUPPORT FILMS ON A WIDE VARIETY OF GRID CHOICES AT:**

www.tedpella.com
## ELECTRON MICROSCOPY ESSENTIALS

Instruments, Tools, Chemicals and Consumables for Electron Microscopy.

### CHEMICALS FOR ELECTRON MICROSCOPY

#### Fixatives
- Glutaraldehyde, 25% EM grade, 10 x 10ml.................................................................18426
- Glutaraldehyde, 50% EM grade, 10 x 10ml.................................................................18431
- Glutaraldehyde, 8% EM grade, 10 x 10ml.................................................................18421
- Paraformaldehyde, EM Grade, Prill Purified, 1kg.........................................................18501
- Osmium Tetroxide, 1 gram crystal.............................................................................18456
- Osmium Tetroxide, 2% aqueous, 10 x 5ml.................................................................18466
- Osmium Tetroxide, 4% aqueous, 10 x 10ml.................................................................18465

#### Processing Chemicals
- Cacodylic Acid, Sodium Salt, trihydrate, 100g.........................................................18851
- Ethyl Alcohol, Anhydrous, 1 Liter, A.C.S., glass distilled........................................19206
- Propylene Oxide, EM Grade, 450ml.......................................................................18601
- Sodium Phosphate, dibasic, heptahydrate, Reagent, ACS, 450g............................19545

#### Resin
- Eponate 12™ Embedding Kit, DMP-30 catalyst....................................................18010
- LR White Resin, Medium, 500ml............................................................................18181
- Accelerator for LR white, 10ml..............................................................................18185

#### Stains
- Toluidine Blue O, certified, 25g..............................................................................19451
- Uranyl Acetate, 25g...............................................................................................19481
- Lead Citrate, Trihydrate, 50g................................................................................19314

For product details, complete selection and ordering information, visit:

ELECTRON MICROSCOPY ESSENTIALS FROM TED PELLA, INC.

BIOMEGA HOT PLATE - STIRRERS

Biomega Hot Plates, Magnetic Stirrers and Hot Plate-Stirrers feature an exceptionally durable, chemical resistant white ceramic work surface. Their space-efficient design (20.3 x 22.9cm [8" x 9"] footprint), makes them ideal for use on crowded benchtops and inside of bio-hoods.

Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LED’s on the front panel indicate when the heating and / or stirring functions have been activated. Sturdy, powder coated, cast aluminum construction.

With a square 19cm (7.5") work surface, the hot plate/stirrer is compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels. Comes complete with a support rod for mounting thermometers and temperature probes. Stir bars must be ordered separately.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>3235</td>
<td>P40-HS Hot Plate, 115V</td>
<td>$250</td>
</tr>
<tr>
<td>3235-230</td>
<td>P40-HS Hot Plate, 230V</td>
<td>$275</td>
</tr>
<tr>
<td>3260-1</td>
<td>Stir Bar, 51 x 8mm (2&quot; x 0.32&quot;)</td>
<td>$40</td>
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<tr>
<td>3260-2</td>
<td>Stir Bar, 38 x 8mm (1.5&quot; x 0.32&quot;)</td>
<td>$35</td>
</tr>
<tr>
<td>3260-3</td>
<td>Stir Bar, 25 x 8mm (1&quot; x 0.32&quot;)</td>
<td>$30</td>
</tr>
<tr>
<td>3260-4</td>
<td>Stir Bars, 8 x 1.5mm (0.32&quot; x 0.06&quot;)</td>
<td>$25 pkg/2</td>
</tr>
</tbody>
</table>

PELCO® DIAMOND KNIVES

Available for all ultramicrotomy, cryo, histology and materials applications.

**Standard Ultramicrotomy (SU)**
- Biological, biomedical specimens
- 25nm - 200nm thickness range
- Available in edge lengths of 1.5-6mm
- Standard knife angle supplied is 45°, unless specified as 35° or 55° (both custom)
- Supplied with black anodized “S” Boat (standard), oval cavity

Cryo Wet Ultramicrotomy (CW)
- Frozen specimens sectioned wet with liquids such as ethylene glycol
- 50nm - 1µm thickness range
- Available in edge lengths of 1.5-6mm
- Standard knife angle supplied is 45°, unless specified as 35° (custom)
- Supplied with "W" Boat, stainless steel non-glare finish for wet cryo sectioning, cylindrical cavity and 6° inclined top edge

Cryo Dry Ultramicrotomy (CD)
- Frozen specimens sectioned dry
- 50nm - 1µm thickness range
- Available in edge lengths of 1.5-6mm
- Standard knife angle supplied is 45°, unless specified as 35° (custom)

Supplied with “D” Boat (no trough) for dry cryo sectioning with stainless steel, non-glare finish

**Materials Science (MS)**
- Industrial materials sectioning, not tested to the same ultra high standards as standard ultramicrotomy knives
- 50nm - 2µm thickness range
- Available in edge lengths of 3-6mm (6.5 and 7mm edge length is not currently available)
- Standard knife angle supplied is 45°, unless specified as 55° (custom)
- Supplied with Black anodized “S” Boat (standard), with oval cavity unless otherwise specified.

Resharpening Service Available

Any brand of knife can be resharpened to like new condition or exchanged for a new diamond knife. Note: new diamond knives can not be provided in sizes 7mm or larger in edge width due to unavailability of larger diamonds at this time.

Call Customer Service at 1-800-237-3526 for Details.

DIAMOND KNIVES ORDERING INFORMATION & PRODUCT DETAILS AT: www.tedpella.com

RECONDITIONED LKB KNIFE-MAKER

Fully reconditioned, previously owned LKB 7800 KnifeMaker with new scoring wheel. Repaired and adjusted to A-1 condition. If you use glass knives for trimming, thick or ultrathin sectioning, you can use this unit to make the best knives you can get. Includes glass knife fork tool. Comes with a 90 day warranty. Set up to factory specifications for 25 and 38mm wide glass strips and a thickness of 6-7mm.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>7800-U</td>
<td>Reconditioned LKB 7800 KnifeMaker</td>
<td>$750</td>
</tr>
</tbody>
</table>

LKB KNIFEMAKER OVERHAUL & CLEANING

We will clean it, replace the scoring wheel, adjust it and return it to you in approximately one week.

For this small investment, you can get your old Classic KnifeMaker back in A-1 condition. If you use glass knives for trimming, thick or ultrathin sectioning, you deserve the best knives you can get. Allow us to put life back into your KnifeMaker. Models serviced are: LKB 7800, LKB 7801, LKB 2178, and Reichart-Jung KnifeMaker. Set up to factory specifications for 25 and 38mm wide glass strips and a thickness of 6-7mm. Since many customers do not have the original packaging for this equipment, we have devised a special crate for shipping us the unit and for getting it back to you in pristine condition. Ask our customer service representative for shipping costs. This is an overhaul service. Repair and replacement of other parts are not included.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>7800</td>
<td>LKB KnifeMaker Overhaul</td>
<td>$350</td>
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</table>
EXTENSIVE SELECTION OF PELCO® GRIDS, FINDER/REFERENCE GRIDS, SPECIAL METAL GRIDS, VECO, ATHENE, & STRATATEK™ GRIDS AT:

www.tedpella.com

800-237-3526  TED PELLA, INC.

www.tedpella.com  3
PELCO®Glass Knife Boats
Plastic disposable boats which fit glass knives 6.4mm thick. These boats provide a larger interior than boats made of tape and no sticky walls to which sections may adhere. Glass Knife Boats (GKB) slip on the back of the glass knife and are sealed with wax, black nail polish or clear nail polish. Not only clean but convenient, time saving and reusable.

Wicking Paper Points
Wicking Paper Points let you aim accurately at a drop or wet area on a specimen block face. No random fibers to obstruct or damage the specimen. The Paper Point can be grasped in a tweezer.


Mounting Cylinders
Plastic cylinders for attaching pyramid-tips (from molds 10585 and 10586). 8mm diameter x 13mm length. Smooth ends for easy attachment. Lucite.

PELCO® HP1 Heat Pen
A tool for the ultramicrotomy; area use the colored bar indicator to return to previous settings.

The PELCO® HP1 Heat Pen is a useful tool for flattening thin sections cut by an ultramicrotome. Passing the heated filament over the sections, while still in the knife boat, will flatten them. Variable temperature setting for optimum effectiveness.

The PELCO® Heat Pen has a nichrome element that becomes incandescent during use. A red hot tip, like our Heat Pen has, gives off a large amount of radiant heat. This results in more efficient heating of the sample at a safer distance. A hot tip that is not glowing red as found in battery operated versions would have to be brought close enough to the sample to heat it by air convection/conduction. This would take longer and put the sample at risk. Some other advantages are: Variable element power (heat), quick response time of element temperature when setting is changed, the level of the heat is visually indicated by a 10 color LED bar and a lightweight easily manipulated heating element wand. User selectable voltage.

The above method replaces the solvent vapor method which is harmful to the operator and gives less reproducible results.
PELCO® Grid Holder Pads

Unique silicone rubber pads which act as effective resting points for EM grids, during processing. Bumping, jostling, jerky movements and carrying accidents can destroy or damage valuable grids with mounted sections. Grid Holder Pads minimize such damage by the unique "clean" adherence of the grid to the silicone rubber surface.

**Square:** 25 numbered squares, 1-25. 70 x 70mm; fits square petri dish.

**Round 70mm:** 16 numbered squares, 1-16; fits standard round petri dish.

14001 Disposable Petri Dishes, Round................................. pkg/20
...continued from previous page

petri dish, 70mm dia.

**Round 80mm**: 16 numbered squares, 1-16; 80mm dia.; finger tab for easy removal; fits round petri dish 80mm dia.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>10520</td>
<td>PELCO® 70mm Square Grid Holder Pad</td>
<td>each</td>
</tr>
<tr>
<td>10521</td>
<td>PELCO® 70mm Round Grid Holder Pad</td>
<td>each</td>
</tr>
<tr>
<td>10524</td>
<td>PELCO® 80mm Round Grid Holder Pad</td>
<td>each</td>
</tr>
<tr>
<td>10524-1</td>
<td>PELCO® 80mm Round Grid Holder Pad w/ Petri Dish</td>
<td>each</td>
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</table>

**MENCO GRID STAINING PAD, MADE FROM PTFE**
The staining pad is 3.5” dia. (8.9cm) and fits inside a large glass Petri dish; when this dish is covered with parafilm, evaporation is limited.


<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>15026</td>
<td>Menco (Immuno) Staining Pad</td>
<td>each</td>
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</table>

**PELCO® IMMUNOSTAINING PAD, MADE FROM PTFE**
The pad was designed to save chemicals when processing small specimens. Can be used in the microwave processor, resists most chemicals and is easy to clean. Angle cut on one corner for orientation. 40 concave recesses, 4.5mm dia. x 1.5mm deep (0.18 x 0.06”). Overall size: 41.91 x 69.85 x 6.35mm thick.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>15026-1</td>
<td>PELCO® Immunostaining Pad, PTFE</td>
<td>each</td>
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</table>

**CHIEN STAINING PAD**
Ideal for staining grids in the microwave processor. The silicone pad is flexed and tabbed EM grids are inserted into the slits. When the pad is unflexed (laid flat) the grids stand vertically, allowing the surface tension of a droplet of stain to cover both sides of grid. Blue or white. Flexing this special composition mold will not result in grids falling out.


<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>10523</td>
<td>Chien Staining Pad, Blue</td>
<td>each</td>
</tr>
<tr>
<td>10523-2</td>
<td>Chien Staining Pad, White</td>
<td>each</td>
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</tbody>
</table>

**PYREX® BEAKERS**
Pyrex® Glass Beakers are the standard for general laboratory use and can be used in ultrasonic cleaners. Pyrex® glass has excellent resistance to solvents and most acids. Not for use with heavy or sharp objects.

- Will work with ultrasonic cleaners; general laboratory use; chemically resistant; ml graduations; easy pour lip

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>17308</td>
<td>Pyrex Beaker, 100ml</td>
<td>each</td>
</tr>
<tr>
<td>17329</td>
<td>Pyrex Beaker, 250ml</td>
<td>each</td>
</tr>
<tr>
<td>17309</td>
<td>Pyrex Beaker, 400ml</td>
<td>each</td>
</tr>
<tr>
<td>17327</td>
<td>Pyrex Beaker, 600ml</td>
<td>each</td>
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</tbody>
</table>

**CLEAR AND BLACK CONICAL TUBES**
These clear conical tubes are manufactured from high clarity propylene. Both 15 and 50ml tubes offer a large white label area for sample identification. The conical tubes are imprinted with dark graduated markings for accurate measurement. All caps are composed of blue polyethylene. The 15 and 50ml conical tubes are packaged sterile and are RNase, DNase and Pyrogen-free. These sterile conical tubes provide a versatile addition to any tissue culture, clinical, immunology or research laboratory. Also available in black.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>12941</td>
<td>Conical Tube, 15ml, Sterile, Polypropylene, Clear</td>
<td>pkg/50</td>
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<tr>
<td>12942</td>
<td>Conical Tube, 50ml, Sterile, Polypropylene, Clear</td>
<td>pkg/5</td>
</tr>
<tr>
<td>12941-B</td>
<td>Conical Tube, 15ml, Sterile, Polypropylene, Black</td>
<td>pkg/50</td>
</tr>
<tr>
<td>12942-B</td>
<td>Conical Tube, 50ml, Sterile, Polypropylene, Black</td>
<td>pkg/5</td>
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</tbody>
</table>

**1.5ML MICROCENTRIFUGE TUBES**
Polypropylene, autoclavable, and microwave transparent. Feature a frosted label area for sample identification and volume graduations of 0.1, 0.5, 1.0 and 1.5ml.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>20836</td>
<td>Microcentrifuge Tubes, 1.5ml, Clear, Polypropylene</td>
<td>pkg/100</td>
</tr>
<tr>
<td>20838</td>
<td>Microcentrifuge Tubes, 1.5ml, Clear, Polypropylene</td>
<td>pkg/500</td>
</tr>
</tbody>
</table>
STAINLESS STEEL BEAKERS

Virtually unbreakable, these beakers can be used with heavy and sharp objects and offer excellent resistance to solvents, weak acids and cleaning solutions. Can be used in ultrasonic cleaners. Not graduated.

- Strong; will work with ultrasonic cleaners; general laboratory use; alternative to Pyrex®; easy pour lip

17338 Stainless Steel Beaker, 125ml.................................each
17339 Stainless Steel Beaker, 250ml.................................each
17328 Stainless Steel Beaker, 600ml.................................each

POLYPROPYLENE BEAKERS

Polypropylene Beakers are nearly unbreakable. They are resistant to cleaning solutions and are ideal for use in ultrasonic cleaners. Polypropylene Beakers are microwave safe for use in the PELCO BioWave® Pro+ Microwave Processor.

- Economical and sturdy; will work with ultrasonic cleaners; general laboratory use; microwave safe; ml graduations; easy pour lip

17312 Polypropylene Beaker, 100ml............................pkg/10
17313 Polypropylene Beaker, 250ml............................pkg/10
17314 Polypropylene Beaker, 600ml............................pkg/5

WHEATON® SNAP-CAP® SPECIMEN VIJALS

EM tissue handling and processing is conveniently done in the popular, Snap-Cap® biomedical vial Polyethylene caps snap over a special sealing ring forming an effective barrier to moisture. EM infiltration and dehydration procedures are commonly carried out in these vials.

Clear borosilicate glass vial with "natural" colored polyethylene snap caps. Replacement caps can be purchased separately.

Collecting, storing and exhibiting a wide variety of specimens in the lab or field can also be done in this vial.

12701 Glass Snap-Cap® Vials, 4ml, 22mm D x 27mm H........case/144
12702 Glass Snap-Cap® Vials, 8ml, 22mm D x 39mm H........case/144
12703 Glass Snap-Cap® Vials, 12ml, 22mm D x 51mm H........case/144
12704 Glass Snap-Cap® Vials, 16ml, 30mm D x 40mm H........case/144
12706 Gass Snap-Cap® Vials, 24ml, 30mm D x 52mm H........case/144
12708-12 Glass Snap-Cap® Vials, 32ml, 30mm D x 63mm H........pkg/12
12710-22 Polyethylene Snap-Cap® Caps, Size 22mm ..........case/200
12710-30 Polyethylene Snap-Cap® Caps, Size 30mm ..........case/200

PELCO® R2 ROTATOR

The slow rotational speed (1-7.5 RPM) of the PELCO® R2 lends itself to EM tissue processing techniques. Slow rotation is recommended for processing specimens and leads to more complete infiltration without air mixing, giving improved results for tissue preparations.

The PELCO® R2 has rubber cushioned feet on the bottom as well as on the back so it may be placed on either of two angles, 35° from horizontal when placed on the "bottom feet" and 55° from horizontal when placed on the "back feet."

A high torque motor maintains constant speed at full load. Variable speed is easily set with a rotary control. Rotational speed is less than 1 to greater than 7.5 RPM. The PELCO® R2 has been tested under heavy load conditions to assure reliability.

1050 PELCO® R2 Rotator with 1051 Head, 100-240VAC, 45W, 50/60Hz ................................................. each
1051 R2 Rotator Head with 18 Holes (32mm ø) ...............each
1050-115-1 Replacement Motor, 115V and 220V ..............each

BROWSE OUR LARGE SELECTION OF TWEEZERS & FORCEPS AT:

www.tedpella.com