PELCO BioWave® Pro

SUPERIOR MICROWAVE TECHNOLOGY
- Best temperature and power control on the market
- Superior processing – consistent results

EASILY CUSTOMIZED FOR A VARIETY OF APPLICATIONS
- Electron Microscope Tissue Processing
- Immunolabeling
- Formaldehyde Fixation and EDTA Decalcification
- Paraffin Tissue Processing

PELCO SteadyTemp™ Pro Digital
Process Temperature Controller
Maintain Process Temperature

TED PELLA, INC.
Microscopy Products for Science and Industry
www.tedpella.com  sales@tedpella.com  800-237-3526
VERSATILITY & RELIABILITY WITHOUT HIGH COST

BENEFITS OF THE PELCO BioWave® Pro

- Versatile Processing System - Unrivaled application flexibility
- Enhanced Ease of Operation - Pre-programmed protocols and settings
- Consistent High Quality Results - Best microwave environment control
- Precision Sample Temperature Control - The PELCO SteadyTemp® Pro provides advanced temperature control with a smaller footprint

PELCO BioWave® Pro SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Microwave power range</td>
<td>Continuous power settings from 100-750W</td>
</tr>
<tr>
<td>Microwave frequency</td>
<td>2.45 Ghz</td>
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<tr>
<td>Microwave power control</td>
<td>Programmable controller with 10 modifiable presets</td>
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<tr>
<td>Function control</td>
<td>6” Touch screen user interface</td>
</tr>
<tr>
<td>Temperature control</td>
<td>± 1°C for most aqueous solutions</td>
</tr>
<tr>
<td>Cooling internal</td>
<td>Integrated ambient water cooling system</td>
</tr>
<tr>
<td>Cooling external (optional)</td>
<td>PELCO SteadyTemp™: 450W chilled cooling system</td>
</tr>
<tr>
<td>Magnetic stirrer</td>
<td>Integrated, 0-300rpm speed</td>
</tr>
<tr>
<td>Exhaust</td>
<td>110cfm capacity</td>
</tr>
<tr>
<td>Venting</td>
<td>Automatic when door is opened</td>
</tr>
<tr>
<td>Vacuum system</td>
<td>20” Hg, 3 selectable modes</td>
</tr>
<tr>
<td>Air bubbler</td>
<td>Up to 0.8ltr/min with 2.5” column of water pressure</td>
</tr>
<tr>
<td>Protocol management</td>
<td>Protocols can be stored, using a total of 200 steps</td>
</tr>
<tr>
<td>Certification</td>
<td>ETL/CE</td>
</tr>
<tr>
<td>Dimensions</td>
<td>55.3 W x 51.4 D x 54.6 H cm (21.75” x 20.25” x 21.5”)</td>
</tr>
<tr>
<td>Weight</td>
<td>37.7 kg (83 lbs)</td>
</tr>
<tr>
<td>Power required</td>
<td>36500: 15A/115VAC; 36500-230: 10A/230VAC</td>
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</table>
AVAILABLE APPLICATION KITS

ELECTRON MICROSCOPY TISSUE PROCESSING

Kit includes: PELCO ColdSpot® Pro, PELCO® EM Pro Vacuum Chamber, Capsule Prep Station, Microwave Polymerization System, PELCO Prep-Eze™ and PELCO® Microwave Microcentrifuge Tubes PTFE Holder

IMMUNOLABELING

Kit includes: PELCO ColdSpot® Pro, PELCO® EM Pro Vacuum Chamber, PELCO Prep-Eze™ Rectangular Wellplate Inserts and Sequenza™ Slide Rack & Coverplate™ Assemblies

FORMALDEHYDE FIXATION AND EDTA DECALCIFICATION

Kit includes: DFR Insert & Cassette Holder, Microwave Tissue Jars and PELCO SteadyTemp™ Pro Digital Thermoelectric Recirculating Chiller

PARAFFIN TISSUE PROCESSING

Kit includes: PELCO ColdSpot® Plus, PELCO® TissueVac® Histology Vacuum Accessory, PELCO HistoWave® Cassette System and Paraffin Heating Tile

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**MICROWAVE METHODS REFERENCES AND SITES**

EM processing (fixation through resin infiltration) reduced to <40 min.
EM resin polymerization (epoxy resins and LR White) reduced to 75 min.

2. www.meshulspecial.wordpress.com

Antibody labeling (fluorescence, DAB or colloidal gold) reduced to <60 min.

2. www.meshulspecial.wordpress.com
4. www.cbs.umn.edu/ic/protocols

Microwave-assisted formaldehyde fixation improves morphology and antigenicity

3. www.cbs.umn.edu/ic/protocols