



## *The new standard in sample preparation by fusion*



### Prepares:

- glass disks for XRF
- solutions for AA and ICP analysis

### Processes:

- oxides,
- cement, ceramic, slag, glass, silica, carbonates,
- mining and geological samples,
- sulfides, fluorides,
- polymers, catalysts,
- pure metals, ferroalloys and other alloys,
- samples containing high volatile elements.

### Distinguishing features:

- Uses propane, LPG gases or natural gas only.
- Can be linked to a computer.
- Automatic spark ignition and flame watching system.
- Specially designed burners for uniform heating.



*The First and Finest in Fusion*





APPROVED



## Instrument specifications

Electrical:	100, 115, 230 VAC; 100 W; 50/60 Hz
Gas:	Propane, any other liquid petroleum gas (LPG) or natural gas
	Input pressure for propane: $62 \pm 7$ kPa = $9 \pm 1$ PSI
	Input pressure for natural gas: $69 \pm 7$ kPa = $10 \pm 1$ PSI
	Number of burners: 3
	Maximum gas consumption (propane): $39 \text{ ft}^3/\text{h} = 18.4 \text{ L}/\text{min}$
	Maximum heat dissipation (propane): $98,000 \text{ Btu}/\text{h} = 29 \text{ kW}/\text{h}$
Dimensions:	$45 \times 52 \times 41 \text{ cm} = 18 \times 20 \times 16 \text{ in.}$
Weight:	$23 \text{ kg} = 50 \text{ lb.}$

## Instrument benefits

### SUPERIOR ANALYTICAL ACCURACY

<ul style="list-style-type: none"> <li>The crucibles rotate while inclined.</li> </ul>	<ul style="list-style-type: none"> <li>Efficient agitation and superior homogenization of the melt in less time.</li> </ul>
<ul style="list-style-type: none"> <li>Specially designed burners.</li> <li>Consistent flame and temperature control (100 heating levels).</li> <li>No temperature booster required.</li> </ul>	<ul style="list-style-type: none"> <li>Stable flame, especially at high and low temperature.</li> <li>Uniform heating for reproducible results.</li> <li>Retention of volatile elements.</li> <li>High-performance at high altitudes.</li> </ul>
<ul style="list-style-type: none"> <li>All fusion parameters can be modified: gas flow, mixing speed and amplitude, function duration, crucible angle and cooling air flow.</li> </ul>	<ul style="list-style-type: none"> <li>Efficient development and optimization of fusion techniques.</li> </ul>
<ul style="list-style-type: none"> <li>Air/oxygen injectors in the crucibles (optional).</li> </ul>	<ul style="list-style-type: none"> <li>Enhanced sample oxidization in the case of carbon-bearing samples.</li> </ul>
<ul style="list-style-type: none"> <li>Non-wetting agent injector (optional).</li> </ul>	<ul style="list-style-type: none"> <li>Prevention of non-wetting agent evaporation during fusion process.</li> </ul>

### USER-FRIENDLY

<ul style="list-style-type: none"> <li>Ten independent and user-customizable fusion programs available.</li> </ul>	<ul style="list-style-type: none"> <li>Assistance with method development.</li> </ul>
<ul style="list-style-type: none"> <li>Can be linked to a computer.</li> <li>Easily adaptable software.</li> </ul>	<ul style="list-style-type: none"> <li>Creates, stores and recalls methods, notes and detailed sample information.</li> <li>999 recipes available via computer.</li> </ul>
<ul style="list-style-type: none"> <li>Fully automatic.</li> <li>New sturdy automatic ignition and flame watching system.</li> <li>Approved CSA Norms.</li> </ul>	<ul style="list-style-type: none"> <li>Operates free of supervision.</li> </ul>

### ECONOMICAL

<ul style="list-style-type: none"> <li>Easy installation.</li> <li>Uses propane, any other liquid petroleum gas (LPG) or natural gas only.</li> <li>Prepares 3 samples at a time.</li> <li>One-burner-per-sample design.</li> <li>Individual burner selection.</li> <li>No compressed air or oxygen required.</li> </ul>	<ul style="list-style-type: none"> <li>Low energy consumption.</li> <li>Low operation costs.</li> </ul>
<ul style="list-style-type: none"> <li>Allows fusion of a wide variety of samples.</li> <li>Prepares glass disks and solutions with one instrument.</li> </ul>	<ul style="list-style-type: none"> <li>Versatile.</li> </ul>
<ul style="list-style-type: none"> <li>Reliable.</li> <li>Compact design.</li> </ul>	<ul style="list-style-type: none"> <li>Low maintenance and repair costs.</li> <li>Takes up less space in the laboratory.</li> </ul>



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