



## *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): 18.4 L/min (39 ft <sup>3</sup> /h) Maximum heat dissipation (propane): 29 kW/h (98,000 Btu/h)
Dimensions:	45 x 52 x 41 cm (18 x 20 x 16 in.)
Weight:	23 kg (50 lb)

## INSTRUMENT BENEFITS:

### Superior analytical accuracy

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| <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

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|--|---|
| <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 details 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

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|--|--|
| <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> <li>• Reliable</li> <li>• Compact design</li> </ul>   | <ul style="list-style-type: none"> <li>• Versatile</li> <li>• Low maintenance and repair costs</li> <li>• Takes up less space in the laboratory</li> </ul> |

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