



*The best results  
require the best solution*



#### PREPARES:

- Solutions for AA, ICP, and wet chemistry analysis

#### SPECIALLY DESIGNED FOR:

- Fusing samples in sodium peroxide, sodium carbonate, and potassium pyrosulfate

#### PROCESSES:

- Highly refractory compounds such as chromite, magnetite, ilmenite, rutile, silicon, and silicon carbide
- Materials with high sulfide contents
- Noble metals



*The First and Finest in Fusion™*



### Look to Claisse® for:

- Further information on Claisse® products
- Worldwide sales addresses
- Free flux samples
- Free consultation on sample preparation techniques

### Please call the fusion experts or visit our website:

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## INSTRUMENT SPECIFICATIONS:

Electrical:	115/230 VAC; 150 W; 50/60 Hz
Fluxer input pressure:	62 ± 7 kPa (9 ± 1 PSI) (propane or LPG) 69 ± 7 kPa (10 ± 1 PSI) (natural gas) Max. regulator input pressure: 1720 kPa (250 PSI) Mean consumption* (propane): 30 g/sample (1 oz./sample)
Heat:	Max. calorific power per burner (propane): 9.6 kW (33,000 Btu/h)
Dimensions:	Fluxer: 35 x 63 x 40 cm (14 x 25 x 16 in.) Control unit: 20 x 38 x 12 cm (8 x 15 x 5 in.)
Weight:	Approx. 32 kg (70 lb)

\*gas consumption depends on the fusion program.

## INSTRUMENT OVERVIEW:

The Claisse® Peroxide™ Fluxer is a sample preparation instrument used to transform powders of pure metals, alloys, noble metals and high refractory materials into diluted acid solutions. Solutions are prepared for analysis by Atomic Absorption (AA), Inductively Coupled Plasma (ICP) or conventional wet chemistry.

Up to six samples may be placed into zirconium crucibles, clipped over gas burners. Sodium peroxide is typically added to the samples, but a wide variety of fluxes can be used. The Peroxide™ Fluxer uses propane, any other liquid petroleum gas (LPG) or natural gas to heat the samples while agitating them. An entirely programmable interface is designed to launch each step in proper order to obtain a completely dissolved sample.

The samples can finally rest in still air and be rapidly cooled down by fans. They are then ready to be acidified and analyzed.

## INSTRUMENT BENEFITS:

### Superior analytical accuracy

- Complete dissolution of the samples
- Flame consistency (new burners specially designed by Claisse®)
- Temperature control (100 heating levels)
- Uniform heating for reproducible results
- Retention of volatile elements
- Reduction of acid impurities
- Efficient agitation and superior homogenization of the melt
- Editable fusion parameters: heating and cooling duration, mixing speed and amplitude, gas flow
- Productive at high altitudes

### User-friendly

- Fully automatic
- New automatic spark ignition and flame watching system
- Individual burner selection
- Easy loading of crucibles
- 7 available preset fusion programs
- Remote assistance: Claisse® chemists are available to assist you with the maintenance of your instrument and method development

### Economical

- Time saving: 5 to 10 minutes to prepare a solution
- High throughput: 6 samples at a time for up to 40-60 samples per hour
- Increases life length of crucibles
- One-burner-per-sample design
- Uses propane, LPG or Natural gas
- No compressed air or oxygen required
- Low power consumption and no special outlet required
- Capable of fusing a wide array of samples
- Operates free of supervision
- Low maintenance and repair costs