



*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



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Look to Claisse for:

- further information on Claisse fluxes
- worldwide sales addresses
- free flux samples
- free consultation on sample preparation techniques

Please call or write

the fusion experts:

350, rue Franquet, Suite 45

Sainte-Foy (Quebec)

CANADA G1P 4P3

Telephone: (418) 656-6453

Fax: (418) 656-1169

E-mail: support@claisse.com

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Peroxide

Instrument specifications

Electrical:	100, 115, 230 V; 150W; 50/60 Hz
Propane:	Input pressure: 0.7 bars (9psi) Maximum consumption per burner: 6 g/min
Heat:	Maximum per burner: 25,000 BTU/hr Maximum recommended operating condition: 17,000 BTU/hr
Dimensions:	Main unit: 35 x 63 x 33 cm Controller: 20 x 38 x 12 cm
Weight:	Approx. 32 Kg (70 lb.)

Instrument functioning

During the fusion process, the crucibles rock back and forth to mix the contents, thus enhancing heating efficiency and ensuring homogenous melting.

When the fusion process is complete, the gas is automatically shut off, the crucibles return to their initial horizontal position and fans start working to speed up the cooling reaction. Crucibles can continue the rocking motion for a few minutes, if wanted.

The whole crucible is finally dunked into a suitable acid, which quickly dissolves the produced salts. The solution can now be diluted to the desired volume, and analysis can begin.

Instrument benefits

SUPERIOR ANALYTICAL ACCURACY

- Complete dissolution of the samples
- Consistent flame and 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
- All fusion parameters can be modified: heating & cooling duration, mixing speed & amplitude, gas flow
- High-performance at high altitudes

USER-FRIENDLY

- Fully automatic
- Individual burner selection
- Easy loading of crucibles
- 7 preset fusion programs available
- Product assistance: Claisse chemists are available for assistance with instrument maintenance and method development

ECONOMICAL

- Time saving: 5 to 10 minutes to prepare a solution
- High throughput: 6 samples at a time with 40 to 60 samples per hour
- One-burner-per-sample design
- Uses propane or LPG gases only
- No compressed air and no oxygen required
- Low power consumption and no special outlet required
- Allows fusion of a wide array of samples
- Operates free of supervision
- Low maintenance and repair costs