

autofluxer[®] classic

The automatic fusion machine with innovative features

The autofluxer is an automatic fusion machine for XRF and ICP/AAS with up to 4 stations arranged on a compact footprint of only 18.5 square inch.

With simple, clearly arranged controls, function display and status indicator the Autofluxer classic offers the most simple to use flux machine available. Applications range from mining to the process industry of minerals, cements, glasses ceramics, slags, and many other inorganic products.

autofluxer[®] classic - new and unique features

- Slow movement of the crucible during the whole melting process protects valuable platinum crucibles and enables homogenous heating of samples
- Cooling-Delay: A break between pouring and cooling is available for special applications
- Counter provides a memory function of the fusion processes to estimate gas consumption

The autofluxer fusion machine follows the principles of the classical German Schoeps machine with refinements following several hundreds of successful applications and technical innovations.

Flexible for fusion both as solid or liquid samples, the autofluxer is the right choice for laboratories with changing or research applications. Autofluxer settings can be easily set in position for non-expert handling.

Base models: autofluxer[®] classic with 2 stations XRF
autofluxer[®] classic with 4 stations XRF

Upgrading for up to 4 ICP/AAS solution stations is possible at any time.



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Technical features:

Fully adjustable

- Single machine can produce beads for XRF and solution samples for ICP/AAS
- Computer controlled pre-warming, pre-melting, agitation, main-melting and cooling cycles
- Manual program override provides flexibility for sample preparation method development
- Advanced agitation function - circular, slightly vertical, forward, backward, pausing, time and speed adjustable
- Solution module with integrated individual speed controlled magnetic stirrers, waterproof, 150 ml PTFE beakers and stirrers

Easy to use

- Fixed parameter setting for any routine applications
- ICP/AAS solution module with up to 4 stations easily attachable to XRF unit without any tools
- Restricted access capability for different levels of expertise - basic or expert
- Individually controlled gas burners, oxygen enriched for temperature range of 800-1600°C
- Simple self-locking crucible holder - no mechanism, no pneumatics
- Defined positioning of crucible over burner for melting and pouring into mould or beaker

Safe

- Mould sensors for each station, preventing unintended start of melting cycle without mould, takes 32 or 40 mm moulds
- Lockable temperature control unit prevents unintentional or non-authorised manipulation
- Built in air pressure regulator with integrated water trap and visible pressure gauge
- Operational safety by minimum of movable parts, emergency shut off, gas leakage shut off, overheating shut off, lockable

Technical specifications:

| | |
|-----------------------------------|------------------------------|
| Electric power | 110-230 VAC, 50-60 Hz, 150 W |
| Instrument dimensions (L x W x H) | 47 x 47 x 25 cm |
| Mass | 29 kg |

| Supply | |
|-------------------------|------------|
| LPG | 50 mbar |
| Alternative natural gas | 25-50 mbar |
| Air | 6 bar |
| Oxygen | 5 bar |



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