



autofluxer[®] plus

The automatic fusion machine with innovative features

This machine is especially designed for routine analysis, when reproducible melting conditions for various materials with specific fusion parameters are required, independent of the number of stations in use.

autofluxer[®] plus - 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

New option: Crucible lid, to allow a higher temperature in the crucible

- Temperature display: Separate for each station in all process stages
- Temperature stability: Reproducible operating with 1, 2, 3 or 4 stations
- Recipes: 1 + 9 individual programs with cycle times and temperatures
- Separate heating of moulds independent of fusion cycle – Pt life extension
- Independent setting of swirling, pouring and cooling cycles

Technical specifications:

| | |
|-----------------------------------|------------------------------|
| Electric power | 110-230 VAC, 50-60 Hz, 200 W |
| Instrument dimensions (L x W x H) | 47 x 47 x 26 cm |
| Mass | approx. 33 kg |



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Technical features:

- A fully automatic machine casting forward to prepare XRF beads with optional casting possibility backwards to prepare solution samples for ICP/AAS – 8 stations XRF + ICP in one machine.
- Mould sensors for each XRF station, preventing unintended start of melting cycle on a station without mould in place, takes 32 or 40mm moulds*
- Advanced agitation function – circular, slightly vertical, forward, backward, pausing, time and speed adjustable.
- Automatic and reproducible computer controlled flame temperature setting from 800°C to 1650°C with digital temperature display of each station during the complete process.

The autofluxer^{® plus} fusion machine is the latest development of the proven standard machine in the same compact design and with additional technical features.

- Operational safety by minimum of movable parts, emergency shut off, gas leakage shut off, overheating shut off, lockable flame control unit, XRF function stop via mould sensors, flame control by temperature sensors, protected start button.
- Automatic shut down at over-temperature to protect Pt-ware and against unintended high temperature setting
- Simple self-locking crucible holder – no repair of any mechanism or pneumatics
- Restricted access capability for different technical levels of expertise – for the operator and the expert
- Defined positioning of crucible over burner – for melting and pouring into mould or centre of beaker
- ICP/AAS solution module with up to 4 stations easily attachable to XRF unit without any tools
- Solution module with integrated individual speed controlled magnetic stirrers, waterproof, all stainless steel with 150ml PTFE beakers and stirrers
- Possibility of manual program override during operation - program reset any time via start/stop button
- Operational safety by minimum of movable parts, emergency shut off, gas leakage shut off, overheating shut off, lockable flame control unit, XRFstation shut off via mould sensors, flame control by temperature sensors, LED status display, full text display information of gas and oxygen bottles running low.

*several technical details of the autofluxer fusion machines are protected under DE 203 12180.5 dated 04.01.15.

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