

BREITLÄNDER
Eichproben + Labormaterial GMBH

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autofluxer®

autofluxer

An automatic fusion machine with innovative features



AUTOFLUXER

- **Compact automatic fusion machine for XRF, ICP + AAS**
up to 4 stations XRF and 4 stations ICP/AAS within a footprint of only 18.5 square inch
- **Most simple operation**
few, clearly arranged controls, function display, status indicator in field of vision on top panel

The application range of the autofluxer stretches from the mining to the processing industry of minerals, cements, glasses, ceramics, slags, and many other inorganic products

Technical Features

autofluxer[®]

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One automatic machine for XRF beads and additional solution samples for ICP/AAS

Restricted access capability for different technical levels of expertise for the operator or the expert

Computer controlled pre-warming, pre-melting, agitation, main-melting and cooling cycles

Manual program override during operation for flexibility in new sample preparation methods

Fixed parameter setting for any routine applications by individual memory chips possible



Individually controlled gas burners, oxygen enriched for temperature range of 800-1600°C

Mould sensors for each station, preventing unintended start of melting cycle without mould, takes 32 or 40mm moulds

Simple self locking crucible holder - no mechanism, no pneumatics

Advanced agitation function - circular, slightly vertical, forward, backward, pausing, time and speed adjustable

Defined positioning of crucible over burner for melting and pouring into mould or beaker



Lockable temperature control unit prevents of unintentional or non-authorized manipulation

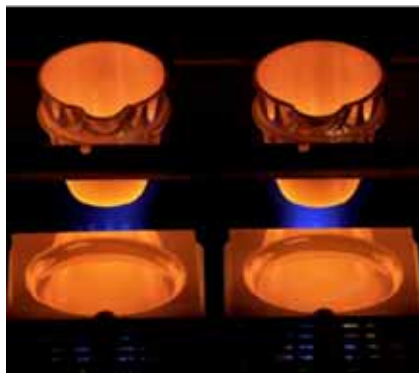
ICP/AAS solution module with up to 4 stations easily attachable to XRF unit without any tools

Solution module with integrated individual speed controlled magnetic stirrers, waterproof, 150ml PTFE beakers and stirrers

Program reset any time via start/stop button - independent of power or emergency stop

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 flame control unit, XRF-function stop via mould sensors, flame control by temperature sensors, protected start button



Technical data: 110-230VAC, 50-60Hz, 150W, mass 29kg, 18.5x18.5x9.8" (47x47x25cm) supply: LPG 50mbar, alternative natural gas 25-50mbar, air 6bar, oxygen 5bar

The autofluxer fusion machine refines with technical innovations the principles of the classical German Schoeps machines with several hundred successful applications

Because of its high versatility for fusion as solid or liquid samples the autofluxer is the right choice for laboratories with changing applications or for research working in the open mode. On the other hand the autofluxer settings can easily be restricted in operational interference, which is a clear advantage for the routine laboratory or for non-expert handling

Made in Germany by
BREITLÄNDER GmbH
Founded 1972

Base models: **autofluxer 2** with 2 stations XRF
autofluxer 4 with 4 stations XRF

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Solution module add on for base models available with 1, 2, 3 or 4 solution stations
Later upgrading for up to 4 solution stations possible anytime