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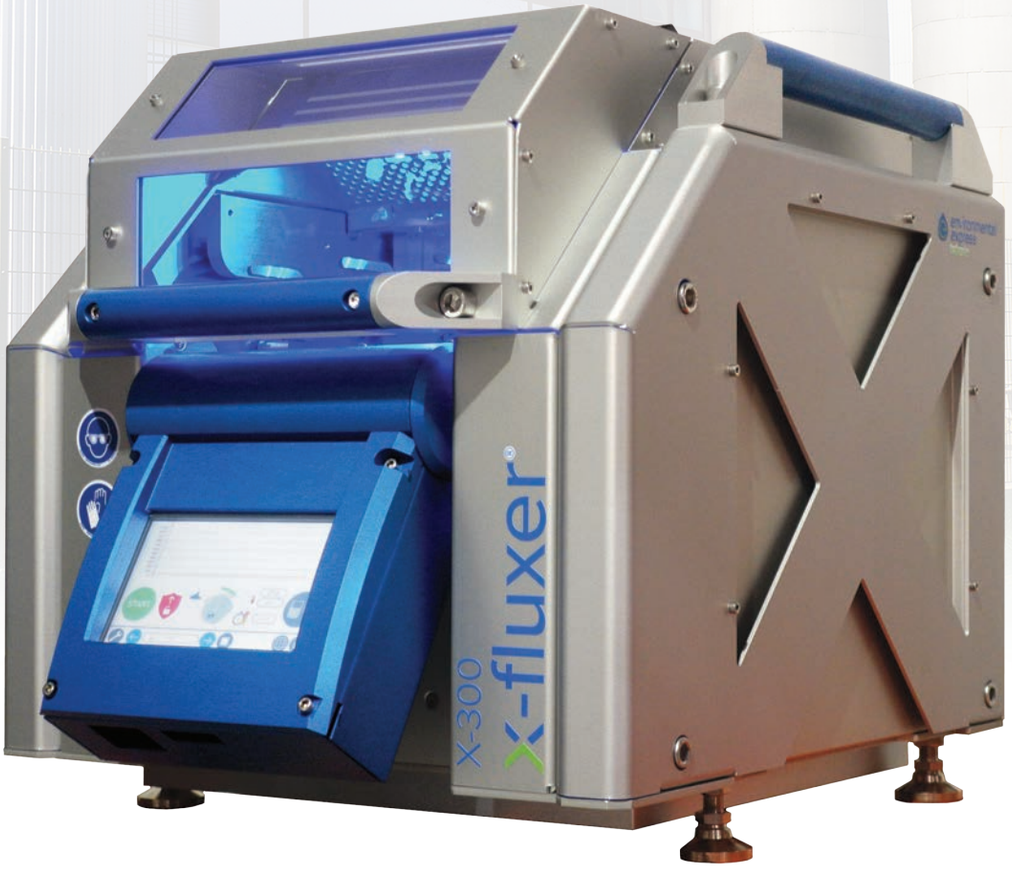
X-300 x-fluxer®

Multi-Position Fluxer

Electric Fusion Fluxer for XRF and ICP Analysis



Sample Preparation for XRF and ICP Analysis


Soil

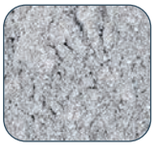

Alloys


Slag


Minerals


Ceramics


Glass


Cement

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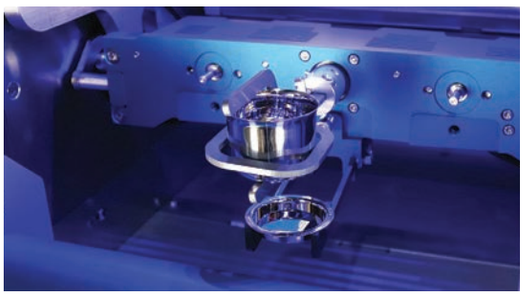
Versatile, Compact & Safe. It's the Fusion Fluxer that expands with your needs.

The Katanax X-300 Fusion Fluxer is an electric fusion fluxer available with one, two or three positions. Versatile and easily adaptable to the needs of today's modern laboratories.



Single Position (X-300M)

Dual Position (X-300D)

Triple Position (X-300T)

Features

1. High performance furnace
   - Heating elements impervious to flux
   - No exposed metal in furnace
   - Heats up quickly
2. Integrated auto-locking safety shield protects the user during the fusion process.
3. Low noise level during standby, heating, melting and cooling.
4. Easy clean, ceramic crucibles and mold holders inert to flux. Mold holder system is user-configurable to 30, 32, 35 or 40 mm molds.
5. Extraction chimneys allows for direct ventilation of halogens from each crucible position.
6. Control panel is adjustable to user's height and features a USB connection for firmware updates.

Specifications

- Voltage: 195-250 VAC single phase
- Maximum Power: 3000 Watts
- Maximum temperature: 1200 °C
- Frequency: 50-60 Hz
- Breaker: Built in (15A)
- Weight: 45 kg (99 lbs)
- Height: 51 cm / 20 in
- Width: 48 cm / 19 in
- Depth: 63 cm / 25 in

Heavy Duty | Versatile | Simple | Safe

X-300 Benefits

High Throughput – Used for preparing glass disks (beads) for XRF, or for preparing peroxide or pyrosulfate fusions. You can also do solid oxidations with the X-300. This unit allows you to run up to 3 samples at a time achieving a throughput of up to 15 samples per hour. Since the molds are in the furnace with the crucibles, you also have optimum conditions for pouring.

Expandable – This fusion fluxer can be pre-configured to your needs. It also allows the user to expand the unit to two or three positions.

Safety – Electric fluxers do not use gas, so there is no risk of gas leakage or open flames.

Accuracy – Precise electric temperature control achieved by our proprietary dynamic temperature profile (DTP) and individual element compensation. Analysts will benefit from temperature homogenization across all three sample positions in the furnace offering better reproducibility and more precise analysis.

Reliability – Built with the most demanding lab in mind. Its design incorporates robust heating elements, full ceramic platinumware holders, industrial grade motors and electronics that withstand continuous usage.

Simplicity – Sleek, intuitive, LCD touch-screen interface with icons and menus makes operation easy and efficient. It is entirely automated and comes pre-loaded with various fusion programs that can be used as is or customized for your particular protocol. Pre-loaded programs include Oxide, Solution, Metal Peroxide and Ramping. All programs can be saved, renamed, deleted or copied, just like computer files. The software is also pre-installed with multiple languages.

Solutions Module – Optional solutions stirrer with variable speed allows the X-300 to produce solutions for ICP/AA analysis in up to three beakers simultaneously.

Connectivity – Connects remotely on the system to monitor or interact with the interface via smartphone, computer or a tablet. When connected, the user can activate an option to let a Katanax engineer inside the system for diagnostic/ debugging purposes.

Data Logging – Allows sample tracking using the screen keyboard or a barcode reader. Data can be retrieved manually using a USB key, or remotely by FTP over ethernet as well as integrated to an automated LIMS system.

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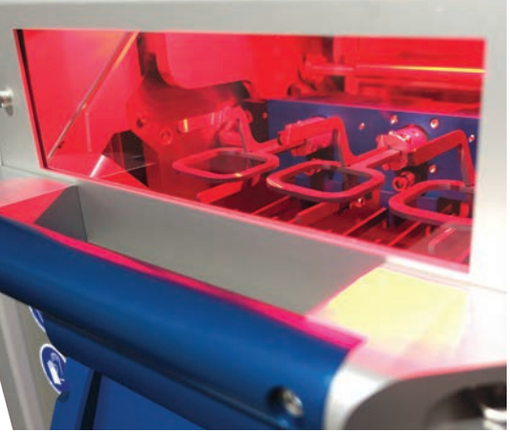
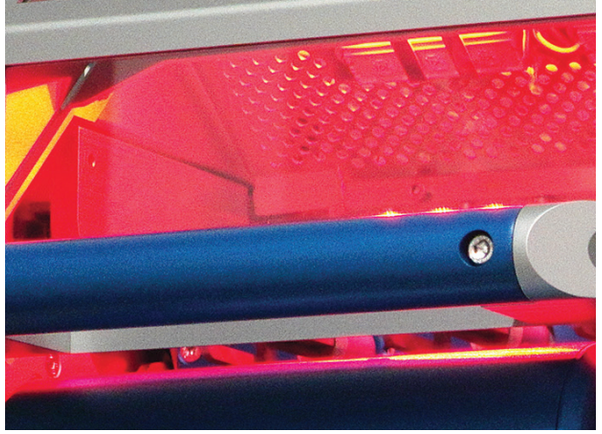
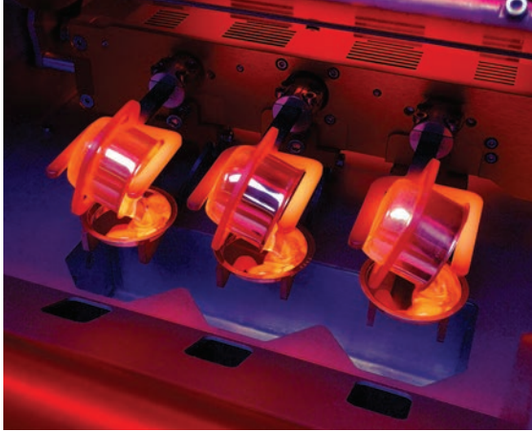
SCAN ME

Scan the QR code to watch the X-300 informational video

Advantages of the X-300

Heating Elements:

- **Impervious to flux and other additives**
- Robust and non-brittle; unit can be moved without damaging the elements
- Automatic power calibration maintains uniform position to position temperature
- Cartridge type is simple to replace; no need for conditioning procedures
- Elements can be changed individually; no need to change all at once

Furnace:

- **Individual element compensation; allows uninterrupted operation even if one element is failing**
- Dynamic Temperature Profile (DTP) control to maintain uniform temperature
- Furnace heats up quickly
- Use of ceramics eliminates metal contamination
- Configurable to single, dual or triple position

Other Features:

- **Low noise during standby, heating, melting and cooling**
- **No external supplies required; no power supply box or cooling fluids**
- Industrial PLC interface; does not depend on Windows updates
- Single phase power; no need for 3-phase
- Ambient status light; red when processing, blue when completed

Method Development Program

Our free method development program allows you to send your samples to us and our application chemists will develop a fusion protocol for you. Contact us for more information.

Fusion Flux

Superior micro-bead and pre-fused. Available with or without integrated non-wetting agents (LiBr or LiI).

Platinumware

Platinum crucibles and molds are available in standard or reinforced varieties.

Service & Maintenance

The X-Fluxer units are designed to be operated with limited maintenance. Servicing these units is made simple with easy component access, backed up with support from our dedicated service team.

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X-600 x-fluxer®

Scan the QR code to watch the X-600 informational video

Built with the most demanding lab in mind, the Katanax X-600 Fluxer is the next generation in electric fusion offering enhanced features for unparalleled results. It is used to prepare glass disks (beads) for XRF analysis and solutions for ICP/AA analysis or for preparing peroxide and pyrosulfate fusions. This unit allows you to run up to six samples at the same time.

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Your local disbributor in the DACH region:

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