environmental express®
katanax

X-600

x-fluxer®

Six-Position Electric Fusion Fluxer

High Throughput Electric Fusion Fluxer

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Technology for your success
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Sample Preparation for XRF and ICP Analysis


Soil

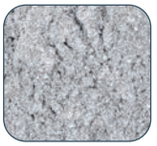

Alloys


Slag


Minerals


Ceramics


Glass


Cement

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SCAN ME

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

The Katanax X-600 X-Fluxer® is the next generation in electric fusion offering enhanced features for unparalleled results. Our fluxers combine exceptional fusion accuracy with all the advantages of electric power with speed, simplicity and a robust design for the experienced or novice user.

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 heating, melting and standby.
4. Easy clean, ceramic 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.

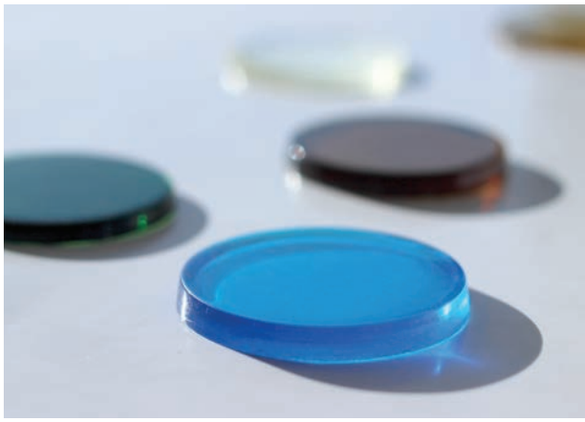
Specifications

- Voltage: 205-250 VAC single phase
- Maximum Power: 4000 Watts
- Maximum temperature: 1200 °C
- Frequency: 50-60 Hz
- Breaker: Built in (16A)
- Weight: 95 kg (210 lbs)
- Height: 56 cm / 22 in
- Width: 105 cm / 41 in
- Depth: 69 cm / 27 in

Heavy Duty | Simple | Versatile



X-600 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-600. This unit allows you to run up to 6 samples at a time achieving a throughput of up to 30 samples per hour. Since the molds are in the furnace with the crucibles, you also have optimum conditions for pouring.

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 dynamic temperature profile (DTP) and individual element compensation (patents pending). Analysts will benefit from temperature homogenization across all six 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-600 to produce solutions for ICP/AA analysis in up to six beakers simultaneously.



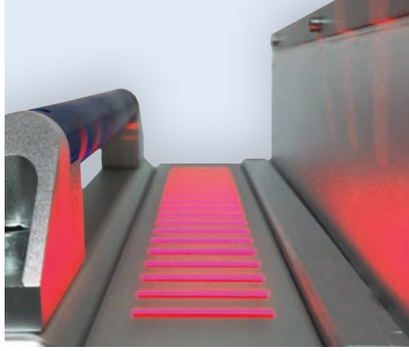
Connectivity – Connects remotely on the system to monitor or interact with the interface via smartphone, computer or a tablet. When connected, the user can activate an option to let a Katanax engineer inside the system for diagnostic/ debugging purposes.

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.

Safe | Accurate | Easy Installation







Advantages of the X-600

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.

Furnace:

- **Individual element compensation; allows uninterrupted operation even if one element is failing**
- Dynamic Temperature Profile (DTP) control to maintain uniform temperature
- Fast heat-up
- Use of ceramics eliminates metal contamination

Other Features:

- **Low noise during heating, melting and standby**
- Industrial PLC interface; does not depend on Windows updates
- Single phase power; no need for 3-phase
- No external supplies required; no power supply box, no cooling fluids, no compressed air

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

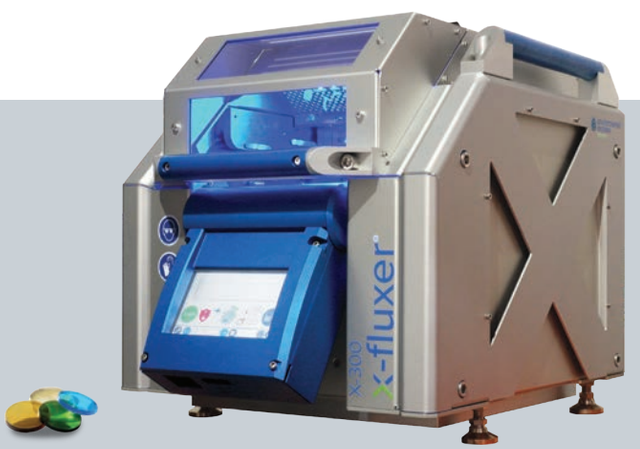
The X-Fluxer units are designed to be operated with limited maintenance. Servicing these units is made simple with easy component access, backed up with support from our dedicated service team.

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X-300 x-fluxer®

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

This automated, heavy-duty, electric fusion machine has a throughput of up to 15 samples per hour. The X-300 can be pre-configured to your needs and allows the user to expand the unit to two or three positions. Used to prepare glass disks (beads) for XRF, solutions for ICP/AA and peroxide or pyrosulfate fusions. It combines speed, simplicity and a robust design ideal for the experienced or novice user.




Single Position


Dual Position


Triple Position

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