

Katanax®

X-300

X-FLUXER®

ELECTRIC FUSION FLUXER FOR XRF AND ICP ANALYSIS



MULTI-POSITION FLUXER



SOIL



ALLOYS



SLAG



MINERALS



CERAMICS



GLASS



CEMENT

SPEX® SamplePrep®
WWW.SPEXSAMPLEPREP.COM

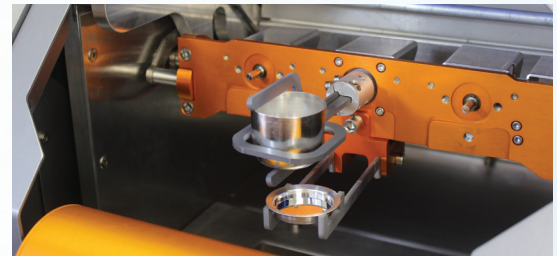
VERSATILE, COMPACT & SAFE. IT'S THE FUSION FLUXER THAT EXPANDS WITH YOUR NEEDS.

The **Katanax X-300 Fusion Fluxer** is the next generation in electric fusion offering new enhanced features for unparalleled results.

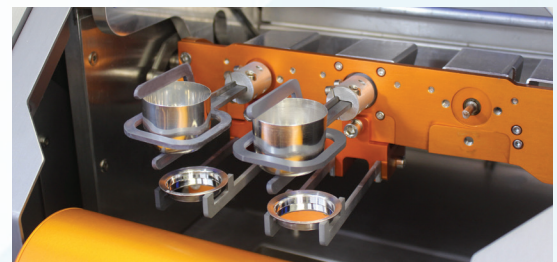
This multi-position fluxer is available as a 1, 2 or 3 position unit, it's versatile and easily adapts to the needs of today's modern laboratories.



Triple Position (X-300T)



Single Position (X-300M)



Dual Position (X-300D)

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 40mm 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: 120 lbs (54 kg)
- HEIGHT: 51 cm / 20"
- WIDTH: 48 cm / 19"
- DEPTH: 63 cm / 25"

HEAVY DUTY • COMPACT • 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.

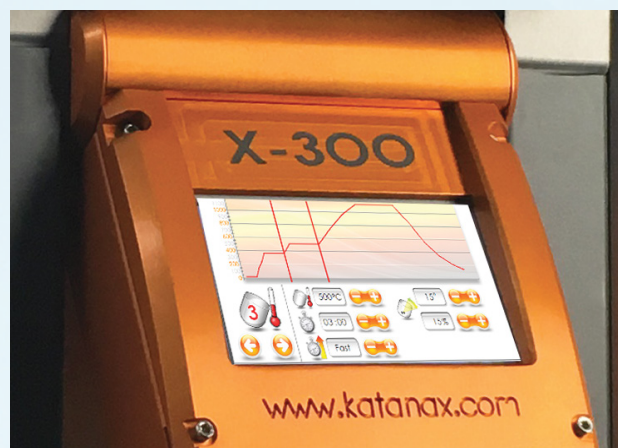
SAFETY - Electric fluxers are safer than gas units because gas leaks are impossible. Only a standard laboratory ventilation hood is required.

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 3 sample positions in the furnace offering better reproducibility and more precise analysis.

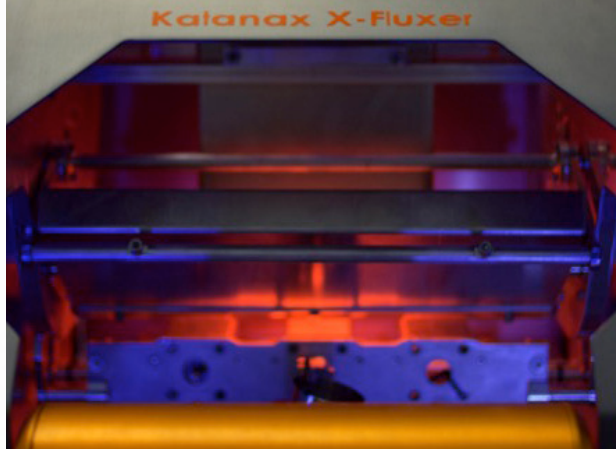
RELIABILITY - Built with the most demanding lab in mind. Its design incorporates robust heating elements, platinumware holders, industrial grade motors and electronics that withstand continuous usage.

SIMPLICITY - Sleek, intuitive, LCD touch-screen interface with icons and menus that makes the 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 3 beakers simultaneously.



Scan the QR code for more information or visit www.youtube.com/sampleprep



ADVANTAGES OF THE X-300

HEATING ELEMENTS:

- Impervious to flux and other additives.
- Robust and non-brittle. (Instrument can be moved without element damage)
- Automatic power calibration maintains uniform position to position temperature.
- Cartridge type. (Quick replacement, 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. (Patent pending)
- 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 method development program allows you to send your samples to us and our application chemists will develop a fusion protocol for you. Contact your local Katanax representative for more information.



FUSION FLUX

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

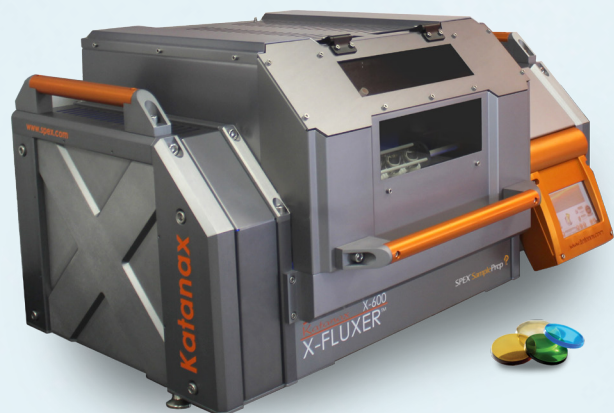


PLATINUMWARE

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

SERVICE & MAINTENANCE

The X-300 is designed to be operated with limited maintenance. Servicing this unit is made simple with easy component access, backed up with support from our dedicated service team.



Katanax X-600 X-FLUXER®



Scan the QR code to watch the video.

Built with the most demanding lab in mind, the Katanax X-600 Fluxer is the next generation in electric fusion offering new 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 6 samples at the same time achieving a throughput of up to 30 samples per hour.

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