

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.



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 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 W
- WEIGHT: 120 lbs (54 kg)
- WIDTH: 48 cm / 19"
- FREQUENCY: 50-60 Hz
- BREAKER: built in (15A)
- HEIGHT: 51 cm / 20"
- DEPTH: 63 cm / 25"

## 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](http://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 LiI).



### 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.

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