FX Series
the future in fusion units

The new FX fusion units by induction have been especially developed to streamline and ease the process of preparing glass beads for analysis by **XRF** and solutions for **AA** and **ICP**.

They prepare, with accurateness and speed, beads and dissolutions using classic flux (borates) as well as great quality fusions of non oxidized elements using peroxide. Very efficient both in low and high temperatures. The **FX Series** is a modular unit, therefore you can design your working station from a single module up to three, controlled all by the same computer thanks to our powerful software, from which you are able to set up and manage all the fusion processes.

FX1

FX2

FX3

The **FX Series** represent a technological breakthrough in fusion units as it heats up via electrical induction in an homogeneous, quick and efficient way. These are highly automated units able to control and display in real time the fusion process of one or two samples individually and separately. Together with its innovative heating system by induction you may find a constant temperature check up system, and a great software. The result is a unit that can control and modify comprehensively and at all times the fusion process of each of the samples, in real time.

Better features

- The heating by induction is noticeably quicker, more accurate, cleaner, and dependable. It allows you to reach very high temperatures in seconds and to control them easily.
- An optical pyrometer pointing to the base of the crucible carries out a constant check up of the fusion temperature.

- The programmable crucible stirring mechanism allows you to obtain a higher homogenization of the samples during the heating process.
- A programmable cooling system for crucibles and molds speeds up the cooling of crucible and mold most effectively.
- A programmable stirring system for solutions.
- An exclusive gas extraction system allows for the unit to be installed without exhaust hoods.
- As safety measure, the door is blocked during the time when the temperature inside represents a risk for the user.
- The coil is cooled down via a closed water circuit with a small cooling system (300W) – no water consumption or refrigerant fluids -, able to maintain up to 2 modules/4 coils working simultaneously.
- Each of the fusion modules can work syncronized with the others or independently, they can even carry out a different program each.
- The induction system speeds up the heating process with a very moderate electrical consumption.

Technical specifications:

Method:	fusion, stirring, mixing and homogenization
Applications:	geological samples, cements, minerals, slags, ceramics, oxides, glass, metals, ferroalloys, sulphides, fluoruros, alloys, etc.
Produces:	• Glass disks for XRF • Peroxide or Pyrosulphate solutions • Samples for AAs and ICP
Programs:	50 editable independent programs
Maximum consumption:	3000W (when heating 2 crucibles and 2 molds)
Power:	230V - 15A
Control:	PC control or Touch Screen 7,5" custom control
Cooling system:	a - Closed circuit / minichiller 300W / minichiller 500W b - Open circuit / External circuit 1,5 LPM
Working frequency:	130..160 KHz

Programmable features:	crucible stirring system / crucible stirring angle / pouring speed and angle / solutions stirring system crucible and mold cooling down system by ventilation
Temperature control:	400 to 1200ºC limited by software
Software:	intuitive, with graphics. Screens for diagnosis and settings
Accesories:	admits crucibles and molds of platinum, zirconium and nickel

FX1
Dimensions:	45cm (height) x 31cm (width) x 60cm (deep)
Approximate weight:	20kg

FX2
Dimensions:	45cm (height) x 89,5cm (width) x 60cm (deep)
Approximate weight:	39kg

FX3
Dimensions:	45cm (height) x 92,1cm (width) x 60cm (deep)
Approximate weight:	58kg

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