

# FLUXANA®

XRF Application Solutions

## NEW: VITRIOX® GAS Fusion Technology



### Features:

- XRF / ICP/AAS / Peroxide Fusion Machine
- Full Microprocessor Control
- Compatible with VITRIOX® ELECTRIC
- Storage of Multiple Application Settings
- Optional Safety Housing



With easy-to-use  
**Touch Display**

Fusion technology is used to prepare samples to be analyzed with an X-ray fluorescence machine. It is also used to improve precision compared to pressed powder technology.

Using your VITRIOX GAS in combination with the extractor hood will ensure that every bead is produced under the same constant conditions!

## VITRIOX® GAS - XRF Fusion

- Cold to cold automation
- Touch display and USB port
- Full microprocessor control
- Compatible with VITRIOX® - Electrical Fusion Machine
- Storage of multiple application settings
- Storage of 10 different programs
- Safety housing
- Optional ICP/AAS and peroxide stations



ICP/AAS Option



Peroxide Option



Easy-to-use touch display

USB port for  
• application exchange  
• service connection

Technical Data	VITRIOX GAS 2XRF	VITRIOX GAS 4XRF	VITRIOX GAS 6XRF
Stations:	2 XRF	4 XRF	6 XRF
Voltage:	110 V/60 Hz 230 V/50 Hz	110 V/60 Hz 230 V/50 Hz	110V/60 Hz 230V/50 Hz
Power:	150 W	200 W	200 W
Temperatures:	0-1.450 °C	0-1.450 °C	0-1.450 °C
Permiss. air pressure:	4 bar	4 bar	4 bar
Permiss. natural gas pressure:	250 mbar	250 mbar	250 mbar
Permiss. propane gas pressure:	250 mbar	250 mbar	250 mbar
Permiss. oxygen gas pressure:	2 bar	2 bar	2 bar
Air consumption:	max. 1 m <sup>3</sup> /hr	max. 2 m <sup>3</sup> /hr	max. 3 m <sup>3</sup> /hr
Oxygen consumption:	max. 0.3 m <sup>3</sup> /hr at 3 bar	max. 0.8 m <sup>3</sup> /hr at 3 bar	max. 1.2 m <sup>3</sup> /hr at 3 bar
Natural gas consumption:	max. 0.48 m <sup>3</sup> /hr	max. 0.98 m <sup>3</sup> /hr	max. 1.44 m <sup>3</sup> /hr
Or LPG* liquefied petroleum gas	max. 0.33 m <sup>3</sup> /hr	max. 0.48 m <sup>3</sup> /hr	max. 0.61 m <sup>3</sup> /hr
Length:	500 mm	500 mm	500 mm
Width:	650 mm	650 mm	705 mm
Height:	300 mm	300 mm	300 mm
Weight:	~ 35 kg	~ 40 kg	~ 45 kg
Samples per h:	5 - 7	8 - 10	16 - 20

\* LPG, bottled gas

Other versions on request. Please ask for installation requirements!

## Safety Housing with Safety Glass

Customer-specific safety housing for **VITRIOX® GAS** fusion machine with safety glass. Prevents any hot surface contact by the user and creates a stable environment.

## Fume Hood

Fume hood made of high-grade steel

- Motor (230 V/50 Hz/90 mA) continuously variable to 2760 r.p.m. 110 V version also available.
- Height 300 mm, width 840 mm, depth 640 mm

## The Table

- Together with the VITRIOX® GAS and the hood, this table forms a professional setup
- Height 769 mm, width 810 mm, depth 760 mm
- The table has an integrated drawer for all required accessories
- Manufactured of robust steel



## Flux

Borate flux with guaranteed purity from in-house production. All fluxes are delivered with specifications of analysis.

Anhydrous homogeneous pre-fused fluxes with a low loss on ignition and defined granulometry.

With these fluxes, the sample is totally dissolved in a borate glass with a perfect surface.



- Non-hygroscopic
- Dust < 1%
- Special fluxes on request
- > 99.98%

Item No.	Description	Quantity in kg
FX-X100-2	Lithium tetraborate	2
FX-X100-25N	Lithium tetraborate	25
FX-X80-2	Lithium tetraborate : Lithium metaborate 80:20	2
FX-X80-2LiBr	Lithium tetraborate : Lithium metaborate 80:20 +0.4 % LiBr	2
FX-X65-2	Lithium tetraborate : Lithium metaborate 66:34	2
FX-X65-25N	Lithium tetraborate : Lithium metaborate 66:34	25
FX-X50-2	Lithium tetraborate : Lithium metaborate 50:50	2
FX-X50-25N	Lithium tetraborate : Lithium metaborate 50:50	25
FX-X20-2	Lithium tetraborate : Lithium metaborate 20:80	2
FX-X20-25N	Lithium tetraborate : Lithium metaborate 20:80	25
FX-X35-2	Lithium tetraborate : Lithium metaborate 35.3:64.7 1.2:2.2	2
FX-X00-2	Lithium metaborate	2

## Platinum Ware

We supply platinum ware made from platinum/gold 95/5 for fusion machines and laboratory needs.  
Your old platinum will be recycled as credit for your next order.

All platinum ware are also available as FKS. This surface finishing increases the lifetime of your crucibles and molds.

Please ask for a quote.



Item No.	Description	OD mm	ID mm	Height mm	Bottom mm	Weight g
<b>FS-OT866</b>	Crucible VIT. GAS	34	20	38	0.5	45
<b>FS-OT867</b>	Crucible VIT. GAS	36	22.5	38	0.5	54
<b>FS-OA434</b>	Mould	31	29	3.8	0.8	31
<b>FS-OA877</b>	Mould	34	32	3.8	0.8	31
<b>FS-OA438</b>	Mould	36	34	3.8	0.8	45
<b>FS-OA439</b>	Mould	41	39	3.8	0.8	46

For your order in platinum FKS, just add „FKS“ to the part number! Other sizes on request.

## Tools

Item No.	Description	Quantity
<b>FS-OZ327</b>	Crucible tongs, platinum shoes, length 230 mm, ca. 5 g Pt	<b>1</b>
<b>VU-US1.9kit</b>	Ultrasonic bath with heating, Vol. ca. 1.9 l for cleaning	<b>1</b>
<b>WZ-0004</b>	Suction tool for beads and pellets	<b>1</b>
<b>VU-Tiegel_Al2O3</b>	Aluminum oxide crucible for determination of LOI (loss on ignition). Inexpensive and very robust alternative to platinum	<b>1</b>



## Applications

We offer ready-to-go calibration packages for X-ray fluorescence analysis. Please see our application flyer for further information.





# Sample Storage

It is important to keep reference materials, prepared as beads or pellets, in a dust free and dry environment.

There is a wide range of boxes and containers for single or multiple samples and standards for XRF.



Item No.	Description	Compartments	Qty/Set
<b>BX-0001-18</b>	Box 210 x 120 x 35 mm with lid	18x max 32 mm pellets/cup	1
<b>BX-0001-24</b>	Box 330 x 220 x 53 mm with lid	24x max 52 mm pellets/cup	1
<b>BX-0002-5</b>	Drawer cabinet with 5 drawers, each with 42 partitions for D max 34 mm, H 17 mm (ideal for pellets D max 34 mm)	210x max 34 mm pellets	1
<b>BX-0003-5</b>	Drawer cabinet with 5 drawers, each with 25 partitions for D max 42 mm, H 17 mm (ideal for pellets D max 42 mm)	125x max 42 mm pellets	1
<b>BX-0004-39</b>	Box for single pellet H 15 mm	max 34 mm pellets	100
<b>BX-0004-46</b>	Box for single pellet H 16 mm	max 42 mm pellets	100
<b>BX-0004-46-6</b>	Box for single pellet H 6 mm	max 46 mm pellets	100
<b>BX-0004-50</b>	Box for single pellet H 25 mm	max 50 mm pellets	100
<b>BX-0006-P</b>	Plastic tweezers for beads		1
<b>BX-0010</b>	Desiccator W350 x H334 x D410 mm incl. dry pearls, tray for dry pearls and hygrometer to combine with storage case 1x BX-0002-5 or 1x BX-0003-5 or 3x BX-0001-24		1
<b>BX-0011</b>	Desiccator W640 x H550 x D410 mm incl. dry pearls, tray for dry pearls and hygrometer to combine with storage case 4x BX-0002-5 or 4x BX-0003-5 or 12x BX-0001-24		1
<b>WZ-0004</b>	Handling tool for glass beads and pellets		1

Additional individual drawers to add to the cabinet are available in various colours.  
Other dimensions on request.

## For storing your beads and pellets, we would recommend

**BX-0001-18 / BX-0001-24:**

Boxes to store your individual samples.

**BX-0004-39 / BX-0004-46 / BX-0004-50 / BX-0004-46-6:**

Store 32 mm (40 mm) samples in these transparent boxes with sealed lid.

**BX-0002-5, BX-0003-5:**

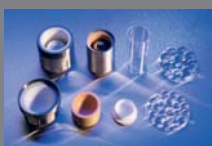
Cabinets with drawers suitable for storage of non-hygroscopic samples.

**BX-0010, BX-0011:**

Desiccators to store your sensible calibration and monitor samples.  
Ideal combination with BX-0002-5, BX-0003-5 or BX-0001-24.

**Tip:** Use our WZ-0004 tool to handle your pellets and beads and avoid finger contact.





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Official agent