



**CLAISSE**  
THE FIRST AND FINEST IN FUSION®

# KEEPING AHEAD THROUGH CLAISSE EXPERTISE IN SAMPLE PREPARATION BY FUSION

**Safe, simple, high performance**



**EAGON 2**

# HOW TO REACH EFFICIENCY WITH CLAISSE EXPERTISE?



## EAGON 2

Claisse offers a global solution in sample preparation by fusion to improve efficiency in the laboratory. Our knowledge and experience combined with the reputation of PANalytical allow us to constantly innovate to fulfill our customers' needs as well as to help them obtain accurate and precise analytical results.



Consumables

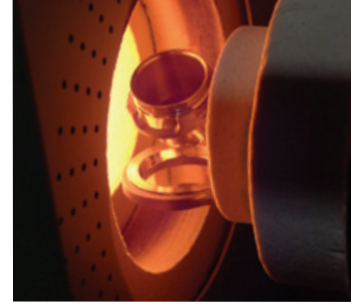


Services



Expertise





# CLAISSSE

THE FIRST AND FINEST IN FUSION®

The Eagon 2® is a fully automatic fusion instrument that prepares glass disks for XRF analysis. Its innovative patented design ensures performance, operator safety and ease of use. The concept of the Eagon 2 instrument makes fusion and the consequent benefits of accurate XRF analysis easily reachable.

## PROCESSES

- Mining and geological samples
- Bauxites, alumina
- Chromites, cobaltite, dolomite, ilmenite, rutile, molybdenite
- Rare earth elements
- Potash, phosphates, fertilizers
- Cements, lime, limestone, carbonates, clay
- Catalysts, zeolites
- Cosmetic, pharmaceutical and environmental samples
- Sulfides, fluorides
- Hematite, magnetite, iron ores
- Refractories, silica, silicates, glass, ceramics
- Coal, ashes
- Steel, ferroalloys, slags
- Pure metals, non-ferrous alloys, silicon carbides
- Polymers, pigments, synthetic rubbers

# EAGON 2

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# WHY INVEST IN THE EAGON 2 INSTRUMENT?

## HIGH ANALYTICAL PERFORMANCE

- Reproducible
- Fully automatic operation that guarantees a perfect repetition of fusion cycles
- Superior quality ceramic holders for crucibles and molds to ensure the lowest contamination
- Optimized fusion conditions for all materials

## ULTIMATE SAFETY

- Cold-to-cold operation
- The operator is protected against hot material and surfaces by interlocked doors during the entire fusion cycle

## PROGRAMMABLE FUSION PARAMETERS

- Temperature setting
- Duration
- Oxidation steps
- Non-wetting agent injection
- Agitation
- Cooling

## OPTIMIZED METHOD DEVELOPMENT

- Pause and inspection function to visualize the fusion process during the fusion cycle

## EASY TO USE

- One-touch operation
- Library of predefined fusion methods
- Definition of customizable fusion method

## QUICK RETURN ON INVESTMENT

### Low cost of ownership

- Casting dish sensors  
Ensure safe and reliable operation – no possible damage of the instrument related to pouring without the platinum mold
- Crucible and mold holders can easily be dismantled for cleaning
- Platinumware friendly, no damaging temperature gradient

### Minimal infrastructure required

- Simple electrical connection
- No O<sub>2</sub>, compressed air or water cooling system needed
- The optional exhaust adapter limits the infrastructural requirements



# TECHNICAL SPECIFICATIONS

# EAGON 2

## PRODUCTIVITY

- Fully automatic fusion instrument that prepares glass disks for XRF analysis
- **Two fusion positions** with independent **synchronous** or **asynchronous** operation

## HEATING

- Temperature operation range: 300 – 1200°C
- Temperature monitored by a type R thermocouple inside the heating chamber
- Resistance-based heating system

## ELECTRICAL

- Voltage: 220-230 V
- Current: 32 A
- Frequency: 50-60 Hz

## DIMENSIONS

- Height: 56.5 cm (22.2 in.)
- Depth: 68.5 cm (27 in.)
- Width: 64.5 cm (25.4 in.)

## WEIGHT

- 78 kg (172 lb.)

## PROGRAMMABLE FUSION PARAMETERS

- Ramp-dwell steps (temperature/time)
- Full temperature range solid phase oxidation
- Crucible angle and agitation speed
- Non-wetting agent injection
- Crucible pouring angle
- Passive or forced cooling (2 speeds)

## CONTROL AND OPERATION

- One-touch operation
- Precise temperature control ( $\pm 5^\circ\text{C}$ )
- Full microprocessor control
- **Pause and inspection function** to visualize the fusion process during the fusion cycle
- Alarm when the cycle is completed

## SOFTWARE AND COMMUNICATION

- Front panel operation
- Optional alpha/numeric programming via a PC for additional convenience
- Up to 32 user-defined methods

## SAFETY

- Certified CE and machinery directive 98/37/EC compliant
- **Outer doors are interlocked during fusion cycle to enhance safety**
- Maximum external temperature of 70°C
- **Casting dish sensors** ensure safe and reliable operation
- User operation levels are protected by password



Scan this QR code to obtain more information on the Eagon 2 instrument.



claisse.com

**Claisse Headquarters**  
350 Franquet St., suite 45  
Québec City, Québec  
G1P 4P3 CANADA

Tel: +1 418-656-6453  
Fax: +1 418-656-1169

