



*Good analytical results
start with the weighing process*



**A NEW PARADIGM IN
WEIGHING ADVANCES
THE FUSION PROCESS**

TheAnt serves to automatically weigh the sample and dispense the flux in an extremely precise manner, to an accuracy of one tenth of a milligram

SPECIALLY DESIGNED FOR:

- Laboratories with high sample throughput for analysis by XRF, AA and ICP
- Perfect manipulation with Claisse borate fluxes

DISTINGUISHING FEATURES:

- Automatic weighing of sample
- Automatic dispensing of flux to maintain a constant sample/flux ratio
- Precision of 0,1mg
- Rapid installation
- No training necessary
- Low maintenance
- Robotics ready



The First and Finest in Fusion





INSTRUMENT SPECIFICATIONS

Electrical: 100/240 VAC; 50/60 Hz
Dimensions: Approx. 45 x 39 x 57 cm (18" x 15" x 23")
Weight: Approx. 23 kg (50 lb.)

INSTRUMENT MODES

Sample/Flux ratio option

TheAnt allows you to attain the sample/flux ratio automatically, and with high precision, each and every time. After introducing a crucible containing a fixed volume of sample, the instrument dispenses the flux automatically to reach the desired sample/flux ratio, to a precision of 0.1 mg

Absolute option

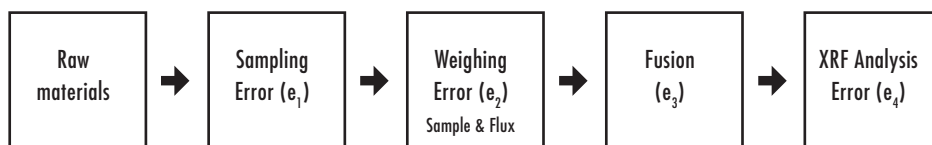
TheAnt dispenses the flux automatically to reach the flux weight with a precision of 0.1 mg

INSTRUMENT BENEFITS

Eliminates human error in the weighing step

The global error (e_3) associated with the concentration of an element to be measured is a function of the individual errors relating to the different stages in the analysis process

$$\%e_3 = \sqrt{(\%e_1)^2 + (\%e_2)^2 + (\%e_4)^2}$$



Since TheAnt eliminates the weighing error (e_2), then it reduces significantly the global error (e_3) and consequently improves the accuracy and reproducibility of the analysis

Dramatically speeds up the weighing process

- No more loss of time related to the weighing of fluxes
- No more calculations for determining flux weight in relation to sample quantity

Eliminates human fatigue from the production process

- High throughput: 30 to 60 samples per hour
- Operates independently for approximately 200 weighings



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Look to Claisse for:

- further information on Claisse products
- worldwide sales addresses
- free flux samples
- free consultation on sample preparation techniques

Please call or write the fusion experts:

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