



At Claisse, innovation is where vision and technology intersect the needs of our customers. From developing new products to performing fundamental and applied research, our chemists and engineers are focused on open innovation, exploration and discovery so you always benefit from the best products, services and solutions.



[A]

The **rFUSION Weighing Station** performs the weighing of flux according to a preset absolute mass or to a preset sample-to-flux ratio. It contains the robot and the control panel, so it is the core of each workstation. A mixing device ensures good homogenization of sample with flux before fusion.

• **Electrical Requirements/Power:**
Single phase 240 VAC, 50/60 Hz, 20 A
Power = 1450 W

• **Dimensions (HxDxW):**
213 cm (28") x 135 cm (53") x 190 cm (75")

• **Weight:** 600 kg (1325 lb)

• **Component Modules:**

- i. **Robotic Arm:** A six-axis electro-servo-driven industrial robot equipped with optic-fiber sensors for crucible detection.
- ii. **Claisse TheAnt:** An automatic flux dispenser with a maximum accuracy of 0.1mg equipped with a high performance analytical balance with a maximum precision of 0.1mg and an overload protection for vertical and horizontal loads. Can be used as a stand-alone.
- iii. **Claisse VortexMixer:** A homing mixer with programmable speed.

[B]

The **rFUSION M4 Fusion Station** is an add-on for the rFUSION Weighing Station. It performs the preparation of glass disks for XRF analysis with up to two, three positions gas burner type fluxers.

• **Gas Requirements:**
Propane or LPG 9 psi (± 1), 62 kPa (± 7)
Natural gas 10 psi (± 1), 69 kPa (± 7)

• **Electrical Requirements/Power:**
Single phase 240 VAC, 50/60 Hz, 20 A
Power= 1450 W

• **Dimensions (HxDxW):**
244 cm (96") x 82 cm (32") x 254 cm (100")

• **Weight:** 575 kg (1275 lb)

• **Component Modules:**

- i. **Claisse M4 Fluxer:** A 3-position gas fusion instrument with programmable heating and agitation by rotation on an inclined axis. Capability for multi-temperature fusion cycles of up to 15 steps. Doesn't require the use of compressed air and oxygen. Can be used as a stand-alone. Two M4 Fluxers can be installed in the station for a total of 6 positions. Capability to shut down fusion positions to save operating costs.
- ii. **Artificial Vision:** 10000 3D profiles per second smart camera for advanced and tough industrial environments.

[C]

General Specifications

• **Control**

- i. HMI touch screen control panel
- ii. Capability to store 10 automated programs
- iii. Parameter editing rights management through 3 levels protected by passwords

• **Communication**

- i.i. Ethernet
- ii.i. LIMS ready
- iii.i. Remote troubleshooting via Internet connection



The First and Finest in Fusion

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