

PYRIS 1 TGA : SITE READINESS

LAB SPACE REQUIREMENTS:

Instrument Size:

TGA: 67 cm (27 in) H x 28 cm (11 in) W x 51 cm (20 in) D
Computer: 49 cm (19 in) H x 42.5 cm (17 in) W x 49 cm (19 in) D

Instrument Weight:

TGA: 40 kg (90 lb)
Computer: 21.8 kg (48 lb)

Bench Space:

A bench top of 100 cm (39.4in) W x 65 cm (24 in) D will accommodate a TGA system with no accessories.

With accessories (printer, TAGS) additional bench space will be required. An option is to place the TAGS on top of the TGA. This will save bench space.

Peripherals, Accessories or PCs:

TAGS 8cm(3in)H x 25cm(10in)W x 26cm(10in)D 5kg(11 lb)

POWER REQUIREMENTS:

Power Consumption:

TGA standard furnace: 1200 Watts Maximum
TGA high temperature furnace: 1200 Watts Maximum
Computer: 500 Watts Maximum

Power Specifications:

TGA: 100/115 VAC, 12 Amps or 230 VAC, 12 Amp
Computer: 100/115 VAC, 4.6 Amps or 230 VAC, 2.3 Amp
TAGS 100/115 VAC, 1 Amp or 230 VAC, 0.5 Amp

Power Outlets:

Each system component (TGA, , Computer, Printer etc) requires a separate power outlet. All outlets should share a common earth ground.

Other:

This equipment is designed to operate within 10% of the selected line voltage. The supply must be smooth, clean and free of transient voltages over 40 volts.

Earth grounding: less than 1 ohm resistance between the grounds of any 2 components of the system

GAS REQUIREMENTS:

NOTE: ALL GASES AND REGULATORS MUST BE SUPPLIED BY CUSTOMER

A Nitrogen balance purge of 40- 60 cc is required . Regulator Outlet Pressure **40-60 psi**

Sample (Sheath) purge gas can be: dry argon, air, or oxygen, with a minimum purity of 99.9%.
The regulator shutoff valve should have a 1/4" NPT male thread on the outlet side. Regulator Outlet Pressure **20-30 psi**

Furnace Lift

House or cylinder air is required for the furnace lift mechanism.
Regulator Outlet pressure **25 psi**

ENVIRONMENTAL REQUIREMENTS:

Laboratory Environment:

Temperature range 15 to 40°C
Humidity <50%
Clean and dust-free
Level, vibration-free work surface

SAFETY REQUIREMENTS:

Gas Cylinders and Gas Delivery Lines:

Lock down straps should be present on all gas cylinders

Ventilation:

As required

Sample Preparation:

All reference materials required for installation check-out are shipped in the instrument start-up kit.