

Pre-Installation Site Requirements for HYBRID Trac

Thank you for choosing a CEM precision instrument.

This document should aid you in preparing your laboratory for quick installation and long-term use of your new CEM HYBRID Trac™ Rapid Fat and Moisture/Solids Analyzer.



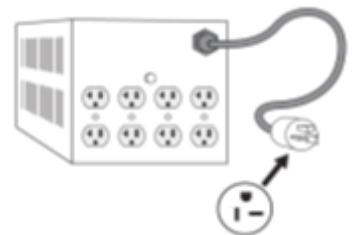
In preparation for the installation of your CEM HYBRID Trac please follow these guidelines.

The HYBRID Trac was designed to minimize its bench top footprint by separating the processor module from the rest of the system. The processor module can be placed separately under the bench or on a separate shelf up to 3 m (9 ft) away.

- The HYBRID Trac should be placed on a vibration free workbench in a draft free, dust free, and dry area without excessive walk-through traffic. Ideally the instrument should be sited in an air-conditioned room and out of direct sunlight.
- Locate the HYBRID Trac magnet away from varying magnetic field sources (such as power transformers, electric motors, etc.) as these may degrade the precision.
- The laboratory bench and its supports must be non-magnetic. Ensure that there are no iron or steel objects closer than 30 cm (12 in) to the magnet. For example, placing a pair of scissors or a folder with metal ring binders on top of the magnet or in drawers directly below the magnet will affect the field.

Caution - The HYBRID Trac should not be placed in a fume hood.

- The temperature of the room must be between 15 °C and 30 °C (59 - 86 °F). Ideally the temperature should not vary more than 5 °C/day (9 °F/day).
- Relative humidity of the room should not be more than 85%.
- The HYBRID Trac occupies a space of 150 cm (59 in) wide, 76 cm (30 in) deep, and 76.2 cm (30 in) high.
- The workbench should be able to support at least 92 kg (203 lbs).
- The HYBRID Trac includes a power conditioner. This device must be connected to a dedicated, grounded 120 VAC, 60 Hz outlet supplying 20 A at 120 VAC. This outlet should be no more than 1.5 m (5 ft) from the area provided for the HYBRID Trac. Connect the HYBRID Trac's line conditioner to a stabilized AC power supply providing a voltage that varies less than 10% of the specified level. Dimensions: 23.9 cm (14.8 in) x 16.1 cm (10 in) x 13.7 cm (8.5 in).



- The HYBRID Trac and all accessories are to be connected to the power conditioner.

Technical Specifications

Interfaces	RS232, USB, Ethernet
Instrument Dimensions	
SMART Turbo™	55.9 cm (w) x 59.1 cm (d) x 36.8 cm (h) 22.0 in (w) x 23.3 in (d) x 14.5 in (h)
HYBRID Trac Magnet	36 cm (w) x 36 cm (d) x 33 cm (h) 14.2 in (w) x 14.2 in (d) x 13 in (h)
HYBRID Trac Processor	30 cm (w) x 32 cm (d) x 41 cm (h) 11.8 in (w) x 12.6 in (d) x 16.1 in (h)
Weight	
SMART Turbo	25 kg (55 lbs)
HYBRID Trac Magnet	50 kg (110 lbs)
HYBRID Trac Processor	17 kg (37 lbs)
Ambient Air Temperature	Conditions typically found in laboratories, temperature must be between 15 °C (59 °F) and 30 °C (86 °F), for optimum stability and performance, the ambient temperature should not vary more than 5 °C/day (9 °F/day)
Voltage	100 - 240 V (50/60 Hz)
Current	
SMART Turbo	10 Amps (110 - 127 V, 60 Hz); 5 Amps (220 - 240 V, 50/60 Hz) 10 Amps (100 V, 50/60 Hz); 5 Amps (200 - 208 V, 50/60 Hz)
HYBRID Trac Magnet and Processor	6.3 Amps (100 - 240 V, 50/60 Hz)
Power Conditioner Requirements	
Included w/ HYBRID Trac	2.1 kVA 120 V, 60 Hz 1.8 kVA 240 V, 50 Hz

Additional Support

If you have additional questions for our staff please do not hesitate to contact us at 800-726-3331 or 704-821-7015.

