FOX-50 Heat Flow Meter



Site Preparation Guide



Revision A Issued September 2016

Table of Contents

Table of Contents 1
Ideal Setup2
System Components
Instrument Measurements 4
Utility Requirements
Power
Gas6
Water
Computer Requirements
Site Preparation Checklist
TA Instrument Offices



Ideal Setup

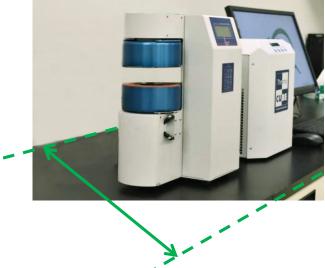


IDEAL PLACEMENT AND BENCH MEASUREMENTS

Select a location with adequate floor space and a rigid laboratory bench that is level and is in a vibration-free environment.

Bench length: 1.4 m (4.5 ft)

Bench depth: 45 cm (18 in)





Allow at least 15 cm (6 in) of **additional** clearance to the right of the instrument for wires, tubing, etc.



System Components



MAIN SYSTEM COMPONENTS



- A. Gas Source
- **B.** Instrument
- C. Coolant Source
- D. Computer (Controller)



Instrument Measurements



MAIN INSTRUMENT



Height: 38 cm (15 in)

Width: 30 cm (12 in)

Depth: 18 cm (7 in)

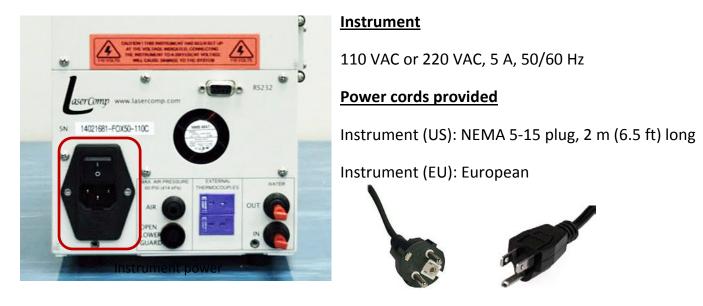
Weight: 11 kg (25 lbs)





Utility Requirements







NEMA 5-15 plug



Use power cords with plugs appropriate for your circuit.

CAUTION

Supply voltages lower than indicated may result in a degradation of performance.



Ensure that the mains assigned do not also supply power to noise generating equipment nearby, such as motors, welders, transformers, etc.



An independent heavy GROUND wire must be provided through the power hookup. Improper grounding may cause severe damage for which the supplier will not accept responsibility. All power strips must be fully grounded and carry the ground through to the sockets into which the computer is plugged.



Utility Requirements

GAS

	Requirements
Conditions	Must be dry
Туре	Must be nitrogen , air, or argon
Source	Must be from a gas cylinder, Grade 5 purity
Inlet Pressure	60 psig (4.15 bar)
Fittings	Instrument fitting is 5/32". 5/32" tubing is supplied with the instrument.
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Regulator to monitor pressure



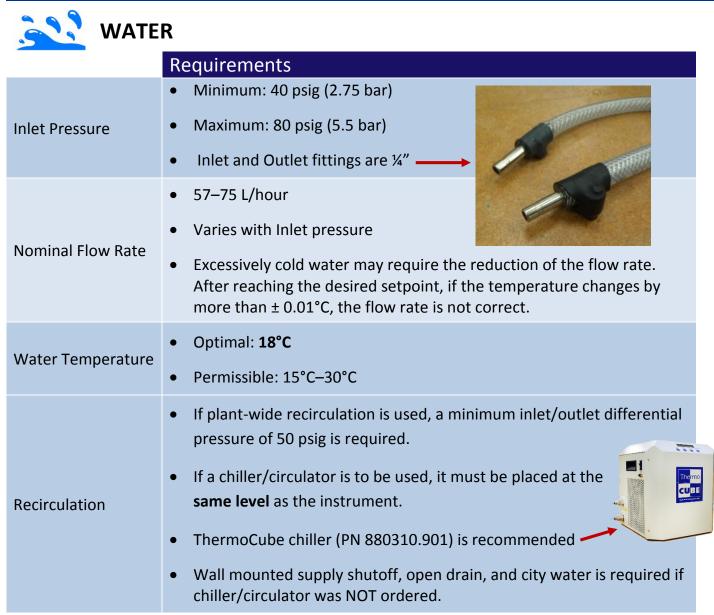
Nitrogen/Air port



Venting inert gases into small rooms may reduce the oxygen content of the air and become hazardous to personnel.



Utility Requirements





Outlet and Inlet ports

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Computer Requirements

HARDWARE REQUIREMENTS

The FOX-50 must have a PC in order to operate, and requires an unused RS-232 (serial) port OR unused USB port if RS-232 is converted to USB.



Instrument drivers, software, and calibrations are provided on a CD.

NOTE

Computer should not be attached to other analytical instruments or LAN.



SOFTWARE REQUIREMENTS

ltem	Requirement
Network	 TA Instruments is not responsible for resolving issues associated with connections to your corporate network. Network cards and/or certain network operation frequently interfere with the operation of the instrument and software.
Conflicts	TA Instruments is not responsible for resolving hardware/software conflicts created by the addition of third party hardware or software to the computer.



Site Preparation Checklist

FOX-50

	Sufficient bench space for instrument, computer, and recirculator (if needed): Width: 1.40 m (4.5 ft) Depth: 45 cm (18 in)
×	□ Instrument power is 115–220 VAC, 5 A, 50/60 Hz
Ö	Air/Gas Input – Dry nitrogen, air, or argon Grade 5 purity cylinder Regulator set to 60 psi (4.15 bar)
	 Water Circulation Nominal inlet pressure of 60 psig (4.0 bar) Nominal flow rate of 57–75 L/hour Optimal coolant temperature of 18°C Filtered or clean and debris-free ThermoCube chiller OR wall-mounted supply shutoff, open drain, and city water
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I hereby acknowledge that all utility requirements have been met per the checklist above and that they will be ready at the agreed time of installation.

If all utility requirements are not met at the agreed time of installation, additional charges may be incurred for a return Service trip.

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Customer	DD	MM	ŶŶŶŶŶ	
 Company	City			Country
Please send a signed copy of the completed checklis	t to your	local Service	e representati	ve.



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