

SKORPION™ OPERATING MANUAL

Supplement 10/15/07

SKORPION™ Model with Blower					
	F075615	1.5kW	120V~	50/60 Hz	1 Ø 12.5A
CE	F075616	3.0kW	230V~	50/60 Hz	1 Ø 12.5A
SKORPION™ Model without Blower					
	F075869	1.5kW	120V~	50/60 Hz	1 Ø 12.5A
CE	F075835	3.0kW	230V~	50/60 Hz	1 Ø 12.5A

A. Environmental Conditions

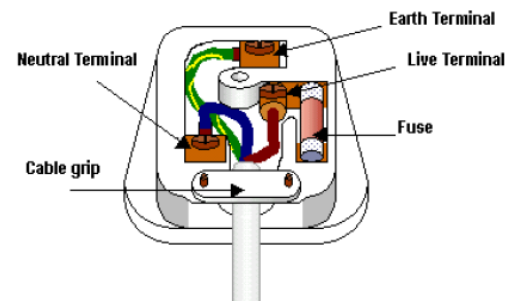
Temperature	0°C to 38°C (32°F to 100°F)
Humidity	0% to 90% R.H.
Pressure	0.8 to 1.2 Bar (11.8 psia to 17.6 psia)

B. Ventilation - Product should be used in a well-ventilated area away from excess dust, dirt, and moisture.

C. Cleaning - With unit OFF and unplugged, exterior surfaces may be wiped clean using a damp cloth.

D. Attaching 230V (European style) plugs (see diagram):

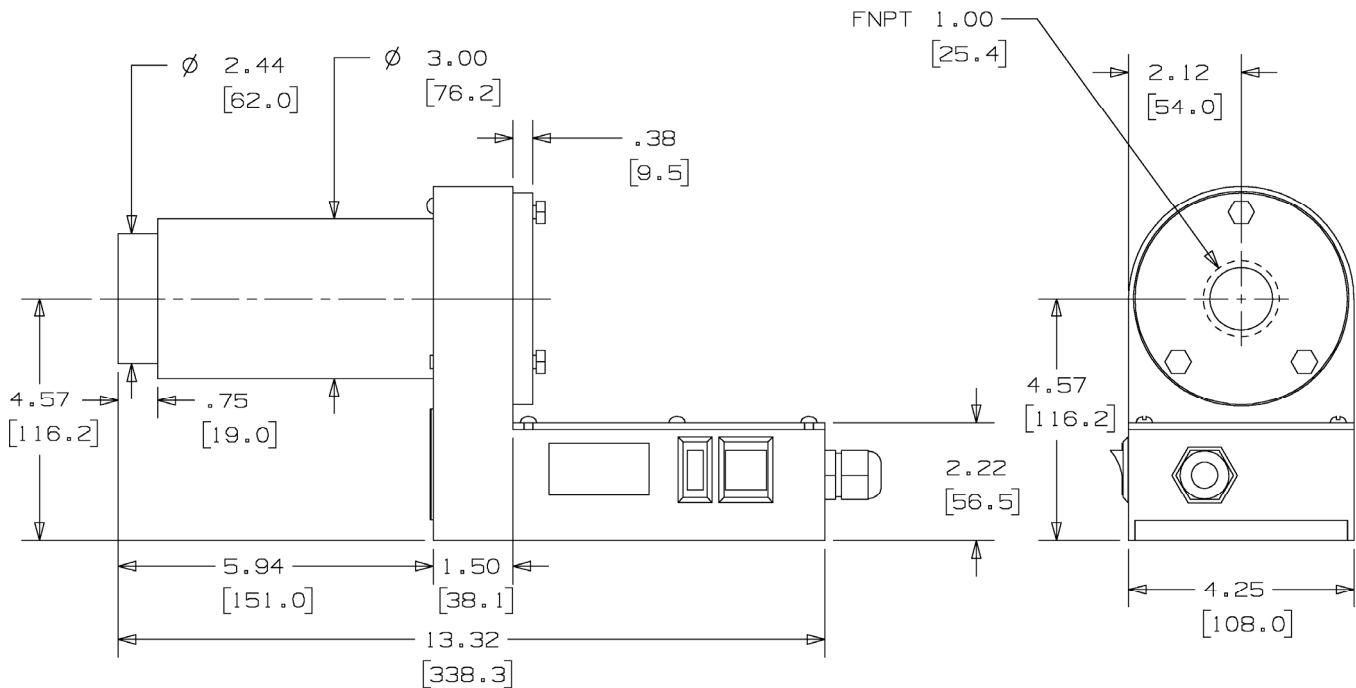
NOTE: Use plug appropriate for local area and codes. Only qualified personnel should perform this assembly in accordance with local electrical codes. Overcurrent protection should be provided external to the heater unit via plug type shown or similar fusing.



E. Protective Earthing

Any screw terminal on either the stainless housing tube or the aluminum base plate may be used for a protective earth point in conjunction with the supplied ground wire (green/yellow). The ground wire is attached directly to these metal structures internal to the heater.

New Model – SKORPION without Blower



MAXIMUM AIR TEMPERATURE

	120V 1.5kW	230V 3.0kW
<i>Open ended or with flare</i>	1000°F (540°C)	1400°F (760°C)
<i>With high-flow nozzle</i>	1300°F (730°C)	1400°F (760°C)
With external air source (Skorpion without Blower)	See note*	See note*

*Note: For models without Blower, the maximum temperature capability of heater will depend entirely on flowrate produced by external air source. The Skorpion blower produces approx. 10 SCFM (283 SLPM) with no additional piping or manifolds attached to heater exit. Higher flowrates than this will result in lower maximum temperatures.

SPECIAL NOTES:

- Threaded 1" female NPT port is provided for convenient air connection to external air source such as regenerative blower or compressed air.
- **WARNING: External air supply must be turned ON prior to turning heater ON.**
- Inlet air pressure must not exceed 5 PSI (.3 Bar) or else air leaks will be noticed in the unit.
- For best flow conditions, use min. ¾" NPT size incoming air line.