

# The Vulcan 1000D

## INSTALLATION PREPARATION GUIDE



**LOCKFORMER**





## ELECTRICAL REQUIREMENTS

### Drive System and Controller

230 volts AC single phase, 60 Hz, 15 Amps (dedicated line to be terminated into the drive amplifier box- see *machine space drawing*.)

### Line Voltage Disconnect Box

A line disconnect box for each power supply should be used to enable the operator to turn the power supply off quickly in an emergency. The switch should be located on a wall near the power supply and should be easily accessible. The interrupt level of the switch must be equal to or exceed the continuous rating of the fuses. Use slow-blow fuses according to the power requirements listed on the charts below for your plasma unit

#### PowerMax 1000

Input Voltage	Phase	Input Current (Amps) at 8.4 KW Output
200-208	1	50
230-240	1	44
480	1	22
200-208	3	30
230-240	3	26
400	3	15
480	3	12
600	3	11

#### For PowerMax 1000 Users

*Fuse in accordance to local and national electrical codes. (Use slow-blow fuses.)*

#### PowerMax 1250

Input Voltage	Phase	Input Current (Amps) at 8.4 KW Output
200-208	1	70
230-240	1	60
480	1	30
200-208	3	40
230-240	3	36
400	3	21
480	3	17
600	3	16.5

#### For PowerMax 1250 Users

*Fuse in accordance to local and national electrical codes. (Use slow-blow fuses.)*

## GROUNDING REQUIREMENTS

The power supply must be properly grounded through the power cord according to local code electrical power requirements. The power supply cabinet is electrically conductive and can present a shock hazard if it is not properly grounded through the line voltage disconnect box. A 3-wire service (4-wire for 3-phase) must be used with a green/yellow wire for protective earth ground, in compliance with local electrical requirements.

Your company must also provide an earth ground rod. The ground rod should be made of 1/2" to 3/4" copper, 8' length with no more than 1' exposed. The ground rod should be near the ground lug connection on the table and connected with #2 gauge wire within 4' from the grounding lug. Do not use a water pipe or any ground other than a ground rod.

*Note: See machine space drawing for ground rod location.*

Your company must run Cat 5 cable enclosed in 1" conduit. **Warning:** Do not pull on the cable ends. Cable ends are not covered under warranty, if broken during installation. The conduit should be run to the back of the control console.

## VULCAN TECHNICAL SUPPORT

To provide the best service possible under warranty or on a service plan, Lockformer provides Remote Customer Service Assistance (RCSA) and a bulletin board service (BBS).

Through RCSA, Lockformer representatives can connect to your computer via modem and obtain a view into your system or update software for you. Because a representative can watch your actions, make suggestions, or even operate your computer as you observe, problems are always resolved quickly. Additional support is available through our BBS, which enables you to download patches or software enhancements and upload files required by customer service representatives. Both support options help ensure that your Vulcan system will achieve the highest possible uptime.

In order to take full advantage of Lockformer's Vulcan technical support, we suggest installing a dedicated phone line connected to your office computer's internal modem. This will enable you to use our on-line support. If a dedicated phone line is not available, the use of a fax line or another outside line may be used. The computer is provided with a standard RJ-11 jack.

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