

PART NUMBER: **W2C030**

DIAMETER: **1/4"**

WATTS: **400**

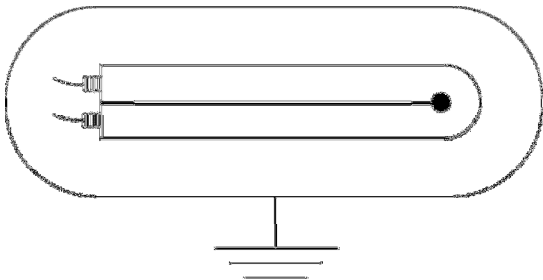
LENGTH: **3"**

VOLTS: **120**

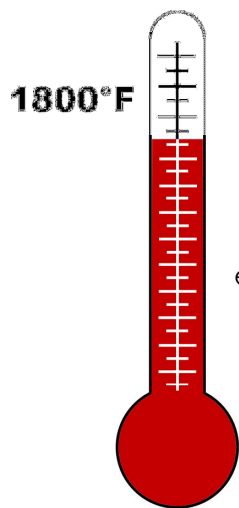
**IMPORTANT!**

Please read before installing  
or energizing these heaters.

## ELECTRICAL EQUIPMENT INSTALLATION MUSTS!

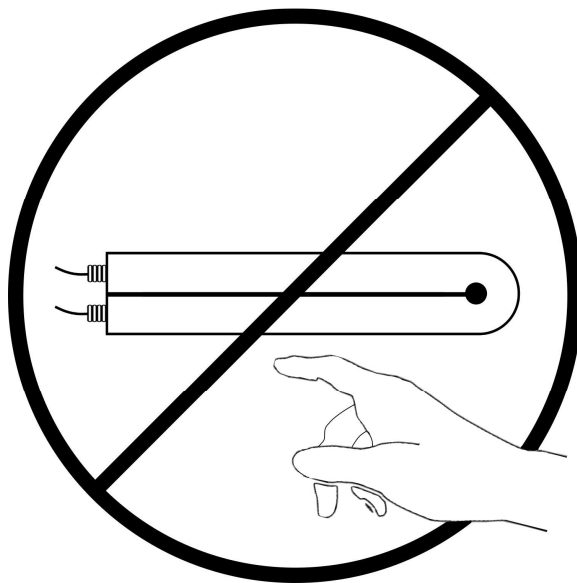


- Must be installed by a licensed electrician
- Must be grounded directly or indirectly

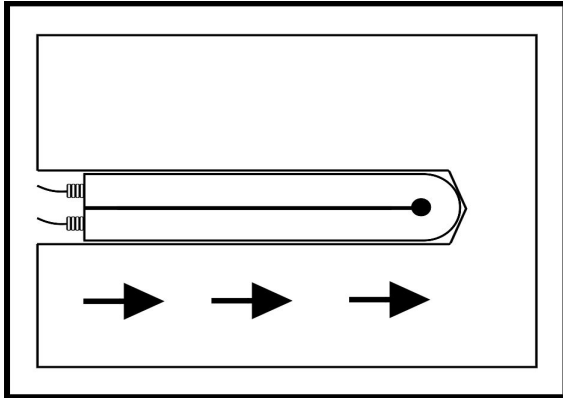


**BURN  
HAZARD!**

Do not touch  
energized heaters!



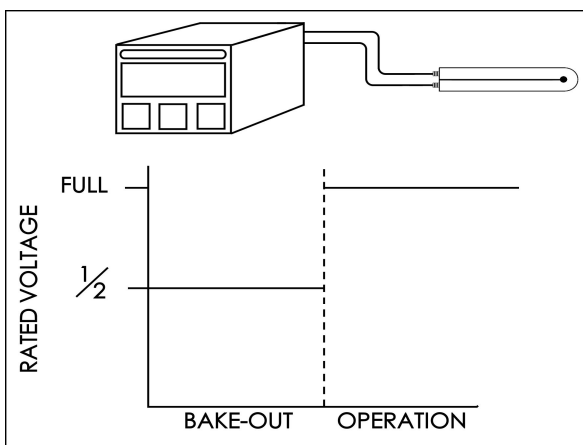
# HEATER INSTALLATION REQUIREMENTS



- Make sure heated section of heater is fully inside bore

## PROPER BORE SIZING

- Bores should be at least .005" larger than the diameter of the heater. The heater is designed to expand when energized for more effective heat transfer and contact when cool for ease for removal.



- Clean, dry bore**  
No heat transfer agents  
No anti-seize substances
- Do not cover terminals with tape**
- Protect terminals**  
From contaminants such as oil, water, etc  
From spraying or dripping substances
- Liquids**  
Use properly sized thermowell  
Keep heated length immersed in liquid
- Air or Gases**  
Maintain steady, unrestricted flow over energized heater

### RECOMMENDED BORE SIZES

STANDARD Ø	HEATER Ø	MINIMUM BORE Ø
1/4"	.245"	.252"
3/8"	.370"	.377"
1/2"	.495"	.502"
5/8"	.620"	.627"
3/4"	.745"	.752"

Metric Heaters: Minimum Bore Ø = Heater Ø + .18mm.  
High Watt densities and operational temperatures may impact recommended bore sizes.

*Please consult Thermal Solutions with questions.*

## HEATER OPERATION

- Avoid excessive flexing of lead wires
- Do not attempt to remove energized heaters. Allow cool down period.
- Connect heater to rated voltage
- Use temperature control for desired process temperature.
- Start-up voltage should be 1/2 rated voltage to bake-out moisture.