



A GLO-QUARTZ Company

FLANGED HEATERS

INSTALLATION, OPERATING & MAINTENANCE INSTRUCTIONS

BEFORE INSTALLING HEATERS PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO ENSURE SAFE AND PROPER OPERATION!

VERIFY THE FOLLOWING:

- Check to make sure that the heater received is the same as ordered.
- Available voltage and phase agree with nameplate ratings – Do **NOT** install especially if on-site voltage exceeds rated voltage.
- Heater element material and Watt density rating must be compatible with chemistry of environment – Consult with Heatmax or Chemistry provider’s (MSDS) as necessary.
- Heater terminal enclosure rating (NEMA) must be appropriate for the environmental situation.
- Thermostatic, high limit (over temperature) and liquid level controls are in place as required.
- Installation is performed by qualified personnel in accordance with National Electric Code and other electrical codes as they apply.
- That operational personnel are adequately trained in all key safety facets surrounding the use and maintenance of electric immersion heaters and controls.

Failure to verify these installation criteria may result in premature heater and equipment failure and may present a HAZARD to personnel and/or property as electric heaters are an ignition source in certain situations. Consult with Heatmax Heaters with any questions.

INSTALLATION:

- Flanged heaters must be mounted in the correct orientation: either horizontally or vertically (CONSULT THE FACTORY IF USED VERTICALLY).
- Exercise reasonable care in handling of heater – Do not drop or hammer.
- Use Gasket on Flange.
- Use high-quality bolts and nuts on Flanges and avoid overtightening.
- Wire in accordance with National Electrical Code and secure terminal covers and conduit connections.

OPERATION:

- **In Wet Chemistry** (direct immersion) applications **NEVER** energize or operate heater unless solution covers the entirety of the heating elements.
- If equipped with a thermostat: Set thermostat to desired operating temperature. If equipped with HIGH LIMIT control, set below maximum operating temperature for particular chemistry. (Consult MSDS).
- **In Wet Well Applications** (water, oil or heat transfer fluids) **NEVER** energize or operate heater unless solution covers the entirety of the heating elements.
- **In Dry Well Applications** if equipped with HIGH LIMIT thermocouple control, set temperature at 1000 degrees F or lower. Heater must be rated at 10 watts per square inch or lower.
- Test all safety interlocks at start-up to assure they deactivate power.

MAINTENANCE:

- **ALWAYS** disconnect power when performing any maintenance or service.
- Scale build-up or sludge on elements must be periodically removed to prevent element overheating and premature failure.
- Periodically inspect electrical connections for tightness and any signs of deterioration.
- Periodically inspect for leaks and re-tighten accordingly.
- Remove any corrosion in terminal enclosure and **NEVER** operate a heater that exhibits any sign of physical or electrical damage. Consult with Heatmax Heaters for recommendations

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