

Type "AQ" Series

The type "AQ" Series is our Quartz Heaters. These heaters work on the principle of Infrared Heating. The open coil element emits infrared radiation through the quartz tube. The infrared then exits the tube, while the radiation heats the solution in contact with the outer quartz tube. The Quartz heaters are recommended for applications that are:

- Chemical baths with 1 to 7 pH level
- Chemically resistant to all acid solutions except hydrofluoric.
- Ideal for Sulfuric Acid baths.

AQ Series Features:

- Only heater with a Replaceable Element.
- 1/8" thick x 1-3/4" (nominal) OD dia. Quartz Tube with a screw-off plastic top.
- Polypro Plastic square cage designed for maximum protection against abuse.
- Black Indicating Line on cage to divide hot and cold zone, serving as a minimum liquid level indicator.
- Standard 3' long non-metallic conduit with 16" lead wire. Optional lengths to 6' are available.
- Corrosion resistant plastic housing for maximum protection of wire connections.
- The standard electrical configuration is 1 Phase.
- Ground wire is provided.

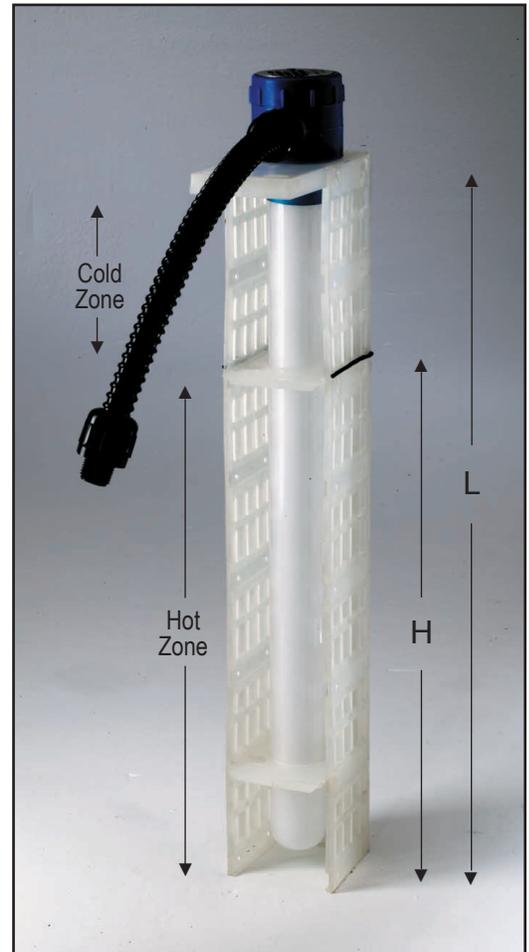
See the Control Section for level safeties and Manual Reset Controls.

WIRING: These heaters come only in single phase. Three heaters can be purchased for wiring in three phase.

MODEL SELECTION: Purchase these heaters by tank depth first, and then buy multiple units for kW requirements.

PRECAUTIONS: Quartz is glass and is fragile. Handle with care. Do not bump the heater with parts. Wear gloves, goggles and other safety equipment.

NOTE: You must use liquid level controls and manual resets with this product. See the control section for the related products.



| Watts | Volts | L | H | Cat. No. |
|-------|-------|-----|------|----------|
| 1,000 | 120 | 12" | .6" | AQ-120* |
| 1,000 | 240 | 12" | .6" | AQ-122* |
| 1,500 | 120 | 16" | .8" | AQ-160* |
| 1,500 | 240 | 16" | .8" | AQ-162* |
| 2,000 | 120 | 19" | .8" | AQ-190* |
| 2,000 | 240 | 19" | .11" | AQ-192* |
| 3,000 | 240 | 22" | .13" | AQ-222* |
| 3,000 | 480 | 22" | .13" | AQ-224* |
| 3,000 | 240 | 24" | .13" | AQ-242* |
| 3,000 | 480 | 24" | .13" | AQ-244* |
| 4,000 | 240 | 26" | .17" | AQ-262* |
| 4,000 | 480 | 26" | .17" | AQ-264* |

| Watts | Volts | L | H | Cat. No. |
|-------|-------|-----|------|----------|
| 4,000 | 240 | 28" | .17" | AQ-282* |
| 4,000 | 480 | 28" | .17" | AQ-284* |
| 5,000 | 240 | 30" | .20" | AQ-302* |
| 5,000 | 480 | 30" | .20" | AQ-304* |
| 5,000 | 240 | 34" | .24" | AQ-342* |
| 5,000 | 480 | 34" | .24" | AQ-344* |
| 6,000 | 240 | 40" | .30" | AQ-402* |
| 6,000 | 480 | 40" | .30" | AQ-404* |
| 8,000 | 240 | 44" | .34" | AQ-442* |
| 8,000 | 480 | 44" | .34" | AQ-444* |
| 8,000 | 240 | 46" | .34" | AQ-462* |
| 8,000 | 480 | 46" | .34" | AQ-464* |

| Watts | Volts | L | H | Cat. No. |
|--------|-------|-----|------|----------|
| 9,000 | 240 | 50" | .40" | AQ-502* |
| 9,000 | 480 | 50" | .40" | AQ-504* |
| 10,000 | 240 | 55" | .43" | AQ-552* |
| 10,000 | 480 | 55" | .43" | AQ-554* |
| 10,000 | 240 | 64" | .50" | AQ-642* |
| 10,000 | 480 | 64" | .50" | AQ-644* |
| 12,000 | 240 | 70" | .56" | AQ-702* |
| 12,000 | 480 | 70" | .56" | AQ-704* |

- * Include code from the following:
C = Complete Unit (tube, element & guard)
LG = Less Guard (tube & element)
E = Element Only (element)
QT = Quartz Tube (tube)

What You Need To Know Before Ordering Heaters And Controls

TITAN Heaters Information Check List

Tank Size: Length _____
Width _____
Depth _____
(Depth is important when ordering Bottom Heaters!)

Tank Material: Polypro
 Polyethylene
 Steel with PVC
 Stainless Steel
 Titanium
 Other _____

Chemical Composition: _____
If you are not certain, fax TITAN Heaters the MSDS Sheet.

Voltage: Available in 110 volts
 120 volts
 208 volts
 240 volts
 480 volts

Phase: _____
These heaters only come 1 phase. Purchase 3 units for 3 phase wiring.

PH of the Solution: _____

Desired Operating Temperature: _____

Ambient Temperature: _____

Heat-up Time Required: _____

A Complete Heating System Should Consist of the Following:

Plastic, Plastic Lined Tank, or Tank with Plastic Fume Reduction Balls

1. An electric immersion heater with an A.T.S. (except for quartz). A Bottom Type heater is preferred over an Over-The-Side type. If plastic fume suppression balls are used, a guard will be needed around the hot zone of the heater and the liquid level probes.
2. A liquid level safety device, which can be purchased with the temperature control system.
3. A temperature control system with a manual reset button.

Metal Tank:

Steel, Stainless Steel, Titanium, etc.

1. An electric immersion heater.
2. A temperature control system.
3. Liquid level safety, A.T.S., and manual reset capability.

SHOCK HAZARD !

All electric resistance heaters have a potential for a shock hazard. Be sure your system is properly grounded.

FLAMMABLE SOURCE !

All electric resistance heaters are a potential source of ignition. Do not use in, around or near flammable items.

Dry Area Grounding Notice

This heater may fail prematurely because of stray current grounding. Arid regions have a problem with moisture content on their ground rods. During the dry seasons it is a good practice to run water near the grounding rod in your building once or twice per week. This will reduce the chance of electrolysis taking place at your facility, causing heater failure.

TITAN is dedicated to giving you the confidence and peace of mind that you've made the right decision for your process heating needs. Over 75 years of industrial experience assures you the best in heating systems available for your unique system needs. Our extensive product line serves all of your heating and cooling applications: Electric Heaters, Steam or Water immersion Coils, Maximizer Exchangers, Shell & Tube Exchangers and Gas burners. TITAN's commitment to quality, service and design make us one of the premier manufacturer of Industrial Process Heating equipment throughout the world.