

# THE COBRA SYSTEM HEATED TOWERS

412-872-4149

Thank you for purchasing "The Cobra System". Please read important information below:

## THE COBRA SYSTEM must be installed by a certified electrician and plumber. Warranty is rendered null and void if not following specific directions while installing THE COBRA SYSTEM.

\*NOTE:

- We recommend using Teflon tape for all pipe thread connections on all threaded fittings.
- Be sure there is no electric current going to The Cobra Towers until units are filled with presoak and coming out of bleeder plug.
- Do not make any adjustments to thermostats they are preset to the correct temperature.

### WARRANTY

Parts manufactured by The Cobra System are covered for a period of 90 days from the shipment date and 1 (one) year on labor. Other parts which are purchased by The Cobra System used to manufacture The Cobra System products are covered by their respective manufacture warranties.

### WARRANTY TERMS:

The Cobra System, warrants to the original purchaser to be free of Defective Parts and Workmanship for a period of 1 (one) year. This warranty begins on the date of original retail delivery or original use, whichever occurs first. Repairs or replacements und warranty will not extend the warranty coverage. No benefits or remedies are available under this limited warranty while the invoice for the unit or related services remains outstanding. This warranty is Non-Transferable. If any part of the Cobra System C.T.A. Fails in normal use because of defective parts or workmanship performed by the manufacturer and is returned to us, then it will be repaired or assembly replaced. The alleged defective part of the assembly MUST be returned to the manufacturer, at your cost properly supported by purchase receipt,

For inspection and credit consideration in order for the Replacement coverage to be applicable, As specified below.

ALL WARRANT\' REPLACEMENTS AND FIELD REPAIRS MUST BE PRE-APPROVED. AN IDENTIFICATION REFERENCE MUST BE OBTAINED BEFORE ANY SERVICE IS PERFORMED.

# COBRA TOWER INSTALLATION INSTRUCTIONS

Parts Inventory:

- (2) Pressure relief valves
- (2)  $\frac{1}{4}$ " ball valve (bleeder valves top of unit)
- (2) 6" PVC caps
- (2) TSW-150 Digital Control Thermostats

Installation:

- 1) Remove Towers from crates.
- 2) Place a Tower on each side in the desired location close or mounted onto your Presoak Arch so that your heated chemical travels the minimum distance to your spray manifold.
- 3) Take the Tower bottom off by removing the (3) 3/8" hex head bolts to expose thermostat cover. Heating elements are pre-set. DO NOT CHANGE. Remove (3) screws on side of cap, pull off cap to show element terminals. (After all connections are made you <u>MUST</u> spray all wire and terminal connections with an electrical sealer.
- 4) Once you have made your connections replace thermostat cover and screws.

DO NOT TURN POWER ON before filling both Towers with pre-soak or the elements will permanently burn-out.

- 5) Replace the Tower bottom and aligning both ½" FNPT Coupler and 1" pipe couple (electric) on Tower side.
- 6) Connect your presoak fluid line coming from pump to ½" FNPT coupler (lower fitting) presoak on driver and passenger side. Then connect the out-going (upper ½" FNPT coupler), to presoak fluid line back to your driver and passenger side spray arch manifold on the arch distributing presoak equally from each tower.
- 7) Install Pressure Relief valve. Adjust setting to 90 lbs.
- 8) Once the fluid line is connected, manually turn on your presoak pump to fill Towers until you see presoak coming out of ¼" ball valve, (bleeder), on Tower top. Turn pump off and turn the ¼" ball valve in closed position and replace orange PVC cap.
- 9) Car washes running 50 cars per hour or more be sure your hot water heater is sending 115-120 degrees presoak to Towers. Then the Towers will discharge 120-123 degrees to your arch. Car washes running 50 cars or less per hour do not require preheated presoak to Towers to sustain optimal temperature.

If you need any assistance or have any questions about installation please call 724-344-1492
thecobrasystem@comcast.net

 www.thecobrasystem.com

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Not Included:

- (2) Watertight service boxes for Digital Control Thermostats
- (2) Two Pole Contactor



# HEATER WIRING

Tower Wiring Diagram (Single Phase)

**Electrical Requirement**: 240v single phase, 50-amp breakers designated power to each Tower for 9kw heaters Other breaker sizes will be determined for smaller heaters

**TECH SUPPORT:** 

For <u>Heating Element Questions</u> call Durex Industries at 847-639-5600

For <u>TSW-150 Digital Control</u> <u>Thermostat Questions</u> call Dwyer Instruments at 219-879-8868



