

PRODUCT INFORMATION AND SPECIFICATIONS

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ACCU-TROL INDUSTRIES

Phone 352.513.3276

Fax 866.733.1836





Your source for Controls and Accessories for Cooling Towers



Manufacturer and supplier of cooling tower controls and accessories, supplies directly to all the leading cooling tower manufacturers and their representatives in the industry.

BEST REASONS -

► No long lead time for shipments and low cost mean a higher profit for control panels, immersion heaters, water level controls and valves, scru-tite hubs, contactors, relays and associated equipment. Standard items always in stock for quick shipments. Give us the arrival date of your cooling towers and the controls and accessories will be there on time. Replacement items are just a phone, fax or email away. Technical support always available for you and your customer. We invite you to review our enclosed specification sheets and compare quality and pricing against any other manufacturer.

BEST PRODUCTS -

► ATI Water Level Controls—use a plug in relay for ease of replacement if ever required. No hard wiring to remove and replace, just unplug and plug back in. Several models available, inside tower or outside tower, with or without alarms or custom units produced per your specifications.

Making your tomorrow better with smarter solutions...

FOR ALL COOLING TOWERS—BASIN HEATER CONTROL PANELS FREEZE PROTECTION at a COMPETITIVE PRICE



ACCUTROL INDUSTRIES immersion heater systems are designed to provide freeze protection for your cooling tower, evaporative condenser, or closed circuit cooler. They require minimum wiring, "no" field control wiring and are designed for safe reliable, long lasting operation. The control panel cabinet is molded of glass reinforced polyester resin which is resistant to corrosive atmospheres. The hinged cover is provided with a silicone sealing gasket and stainless steel cover screws. The float-less low level cut-off protection features a B/W induction type relay and stainless steel electrode and well holder. Panels are available in a variety of voltages, single or three phase.

SPECIFICATIONS:

Enclosures: NEMA 4X Glass Reinforced Polyester. Stainless Steel Captive Screws. Hinged Silicone Gasketed Cover. Flammability Rating meets 4L94V-O. Heat Distortion Temperature of 350°F. Back Panels - Marine Grade Aluminum. (Metal Enclosure Available)

Contactor: 50AMP Resistive Silver Cadmium Oxide Contacts 1,000,000 Mechanical Cycles. 3 Pole Open Chassis.

Low Water Relay: Inductive
120V, 208/230V, 460V, 575V Primary. 220V Secondary (other voltages available).

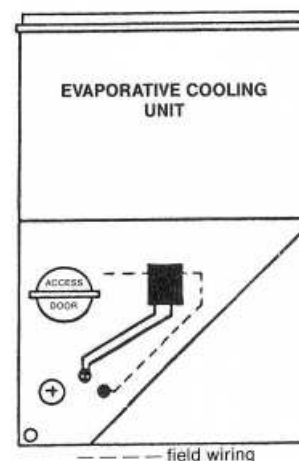
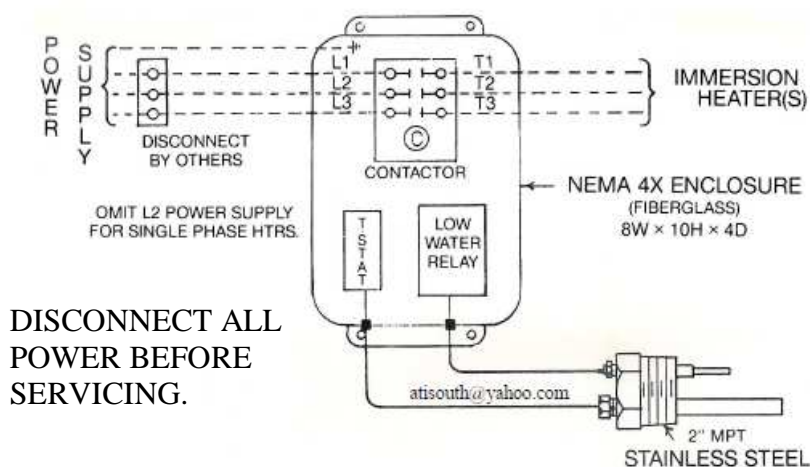
T'stat2 SPDT Snap Acting. Range -22 TO 86 °F. Differential 5°. SS Capillary Length 60"

Sensors: Stainless Steel Low Water Probe. Stainless Steel Stat Well. Stainless Steel 2" MPT Plug for Sensor and Well.

(Electrode and Bulb Well Assembly Included with each Control Panel.)

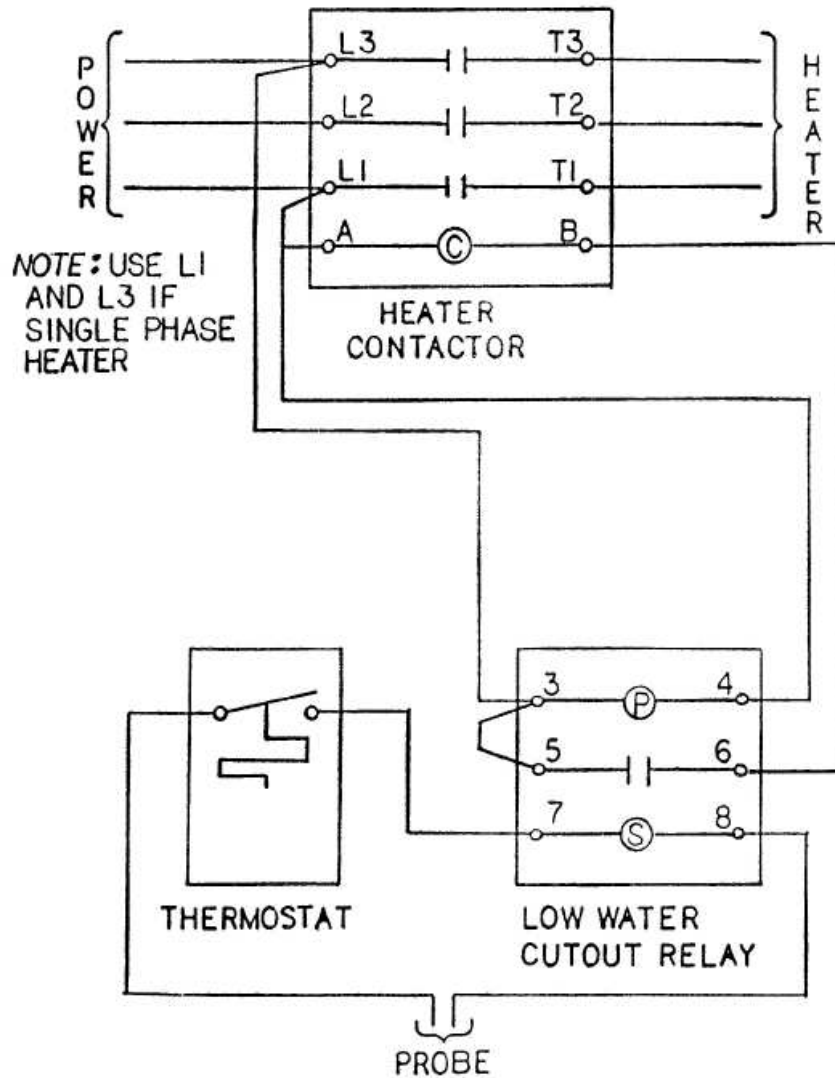
WHEN ORDERING INDICATE →

BHCP - VOLTAGE - PHASE - KW



STANDARD COOLING TOWER BASIN HEATER CONTROL PANEL DISCONNECT ALL POWER BEFORE SERVICING

480V/3/60



Voltage...480....Phase...3....KW.....

Date..... Drawing #.....

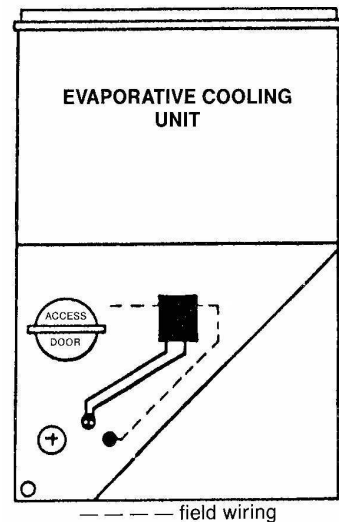
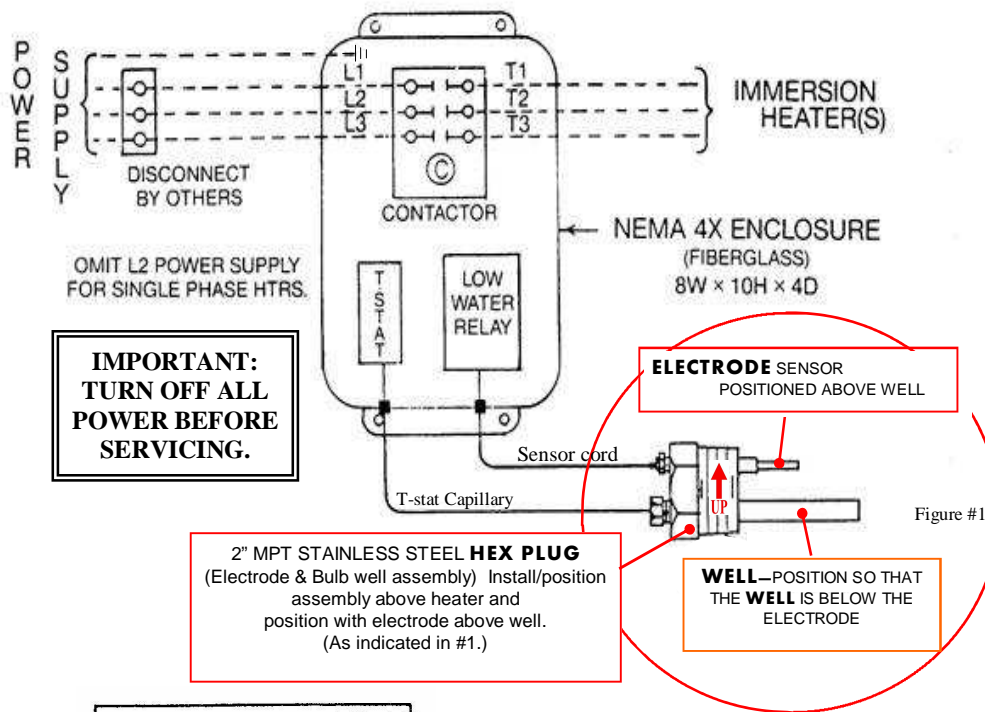
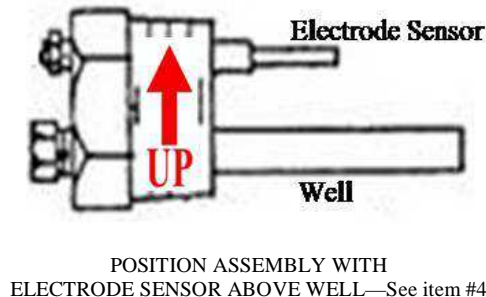


Figure #1



INSTALLATION INSTRUCTIONS BASIN HEATER CONTROL PANEL

Basin Heater Control Panels manufactured by Accu-Trol, Inc. are self contained and require no control wiring. The panel should be mounted at the cooling tower. Two inch hubs can be used to insert the heater and control panel combination level sensor and thermostat well provided. Installation to be as follows:

DISCONNECT ALL POWER BEFORE SERVICING

1. DISCONNECT ALL POWER BEFORE SERVICING,

Using a 2" electrical knockout punch or 2-3/8" hole saw locate the heater access hole approximately one inch above the basin bottom. Locate a second hole approximately one foot or more from the heater access hole. This second hole should have its bottom located at the top level of the heater access hole. (The second hole elevation should be higher than heater access hole).

2. Install 2" hubs in both holes (by others).

3. Install heater in lower hole.

4. **Important:** Install (EBW) stainless plug with thermostat well and level sensor in upper hole **above** heater. The (electrode) low water electrode sensor final position should be above thermostat-well after tightening of plug assembly as shown in diagram and as indicated in Figure #1.

5. Mount control panel so thermostat and level sensor cord will reach thermostat well and level sensor.

6. Insert thermostat bulb in well and secure with retainer supplied in well.

7. Plug sensor cord onto stainless steel sensor (DO NOT ALLOW MOISTURE TO ENTER CAP BEFORE INSTALLING ON SENSOR. USE SILICONE SPRAY TO DISBURSE MOISTURE AND EASE INSTALLATION IF REQUIRED). The sensor cord boot plug sensor must be pressed securely onto the electrode head for secure and complete connection.

8. Using suitable wire connect heater to panel on "T" terminals (located on right side of contactor in panel).

9. Using suitable wire from a overload protected disconnect device, connect to the "L" terminals of the panel contactor (located on left side of contactor in panel).

10. Set thermostat in panel to meet your requirements.

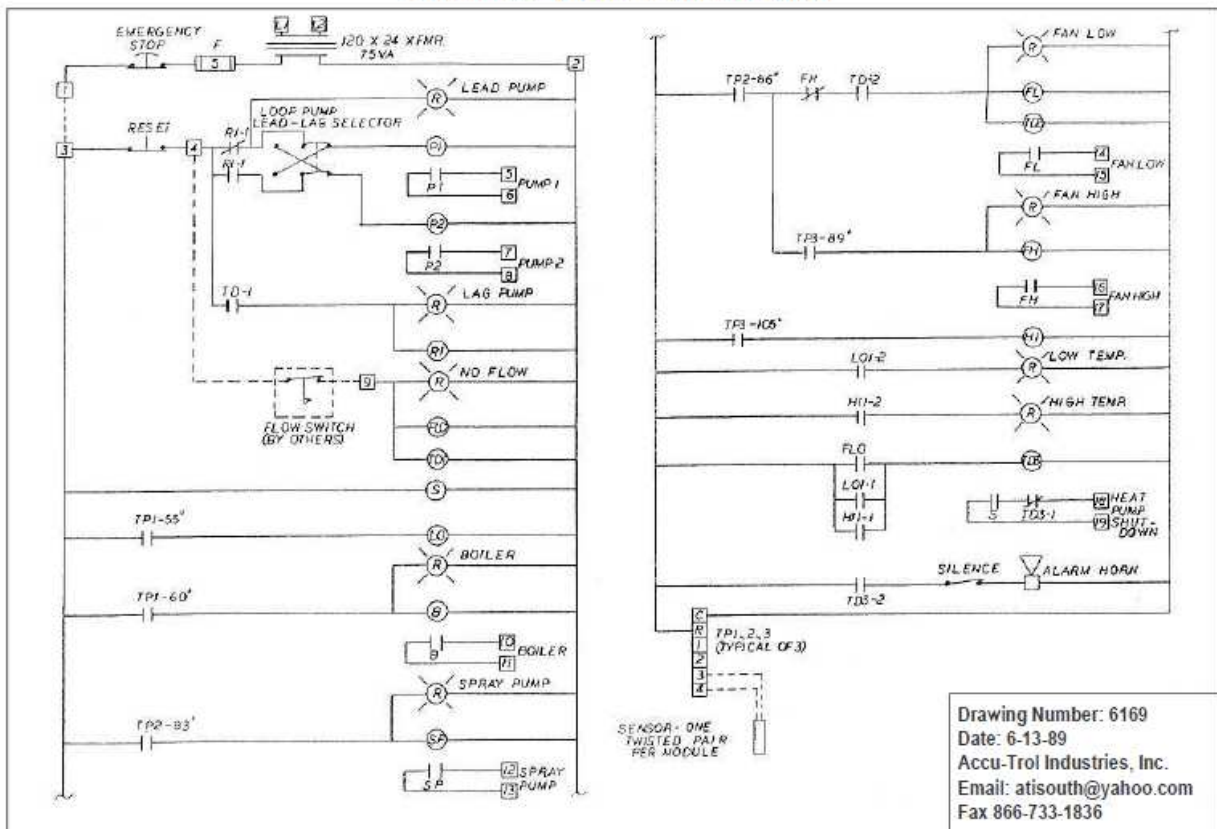
The heater will energize if the temperature of the basin water falls below the thermostat set point and the water level is above the sensor level.

EXAMPLE OF CUSTOM SERVICES FOR STARTER PANELS

ACCU-TROL offers a wide range of services to meet your control system panel requirements. Single or multiple starter, 2 speed starters, deceleration timers, interlocks, sequencers, liquid level controls, low water or high water level safety devices and alarms, send us your requirements for a quotation. Design and build capabilities available to meet your needs large or small. Some options available are as follows:

- **Enclosure** - All NEMA rated enclosures available whether fiberglass, Polycarbonate, aluminum, steel, stainless steel or galvanized steel. Custom colors available if required.
- **Switches** - Single, multiple, ganged, two through four position, illuminated, oil tight as required.
- **Transformers** - Fusible primary and / or secondary.
- **Disconnects** - Panel mounted fused or non-fused with door interlock. Circuit breaker also available.
- **Wiring** - Terminal block with clear designations for field connections.
- **Thermostats** - Mechanical and Electronic, temperature indication and control.
- **Starters** - NEMA or IEC rated as specified. Auxillary contacts, overload protected, time delay interlocks.
- **Relays** - Closed or open chassis, plug in or panel mounted.
- **Diagrams** - Complete wiring diagrams supplied with every panel.
- **Applications** - Cooling tower, water level, temperature control and / or monitoring, pumps, dry coolers, water source heat pump loops.

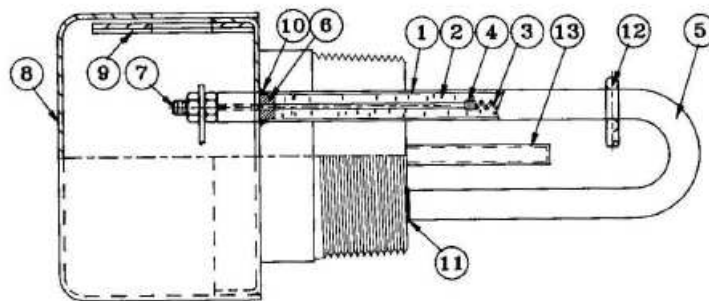
SAMPLE WIRING DIAGRAM



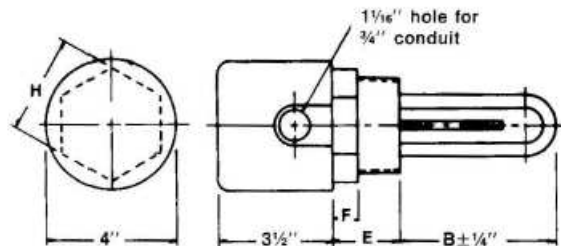


FOR ALL COOLING TOWERS-HIGH QUALITY INDUSTRIAL GRADE SCREW PLUG IMMERSION HEATERS

1. 304 Stainless Steel sheath standard on all items—allow for the widest coverage of applications and temperatures, plus gives a margin of safety should there be any unknown corrosives or contaminants in the solution.	9. Fixed conduit support bracket. Supply conduit is not disturbed when cover is removed.
2. High purity MgO powder compacted to provide maximum heat conductivity and optimum dielectric strength.	10. Welded construction between elements and plugs on steel and stainless steel headers to give maximum corrosion protection and strength at elevated temperatures.
3. Type "A" 80/20 resistance wire sized to provide lowest wire watt density for maximum life.	11. Silver braze construction on elements with brass plugs. 2" NPT.
4. Fusion welded junction between pin/resistance wire to provide a 360° circumferential joint, giving superior strength and life.	12. Spacer supports on multiple element units where immersed length exceeds 18". This feature prevents adjacent elements from touching and overheating plus allows for easier assembly and disassembly from the coupling.
5. Recompact bends to restore MgO density in bend areas.	<ul style="list-style-type: none"> • 100% inspected for: <ul style="list-style-type: none"> A. Dielectric or Hi-Pot between conductors and sheath. B. Insulation resistance. C. Wattage Hydrostatic pressure testing done on all steel and stainless steel plugs also insures the sheath is defect free. • Over-the-side heaters also available on special order. Brass, steel and stainless steel. • 2" Scru-tite hubs available— order separately.
6. Moisture sealed to prevent the entrance of contaminants during storage and service. Silicone end seals on heaters for oil, air and corrosive applications. Epoxy seals for water applications.	
7. #10-32 terminals for wiring connections.	
8. Nema 4/7 housings on all items.	



2" NPT



WATER LEVEL CONTROLS AND STILLING CHAMBERS FOR ALL COOLING TOWERS



▶ **ATI Water Level Controls** use plug in relays for ease of replacement if ever required. No hard wiring to remove and replace, just unplug and plug back in. Several models available, inside tower or outside tower, with or without alarms or custom units produced per your specifications.

▶ **Stilling Chambers** are designed to minimize wave action, eliminating rapid cycling of the makeup valve.



Water level alone (3 probe)

Water level with hi alarm (4 probe)

Water level with low alarm (4 probe)

Water level with hi and low alarm (5 probe)

Hi and low alarm - no level control (3 probe)

Hi alarm only - no level control (2 probe)

Low Alarm only - no level control (2 probe)

Custom controls built to your specifications

▶ **Solenoid Valves—**

Brass construction in all sizes and styles.





WLC-3 3 Probe Water Level Control and Stilling Chamber

Our systems are self contained to provide a reliable means of basin water level control in your cooling tower, evaporative condenser or closed circuit cooler. The ease of service is accentuated by the plug in control relay and slip connection for mounting. It is no longer necessary to disconnect wiring to remove the controller for electrode inspection or control relay replacement.

A spare plug in control relay can be stocked by the customer for instant replacement in event of relay failure. Minor level adjustments are accomplished by simply loosening the mounting collar set screw and sliding the controller to the proper level. Offering inside mount or outside mounted stilling chambers, the SC-T (outside the tower mount stilling chamber) is designed to minimize the wave action that is in the basin water, therefore eliminating rapid cycling of the make-up valve. Easily mounted to the basin with two 1/2" scru-tite hubs the chamber installation is extremely cost effective. A 1/2" MPT drain plug is utilized in the bottom of the chamber to facilitate flushing and cleaning if required. The SC-N (inside the tower) is mounted with a stainless steel 'L' bracket.

4 and 5 probe units with high and low alarm contacts available.



SPECIFICATIONS—WATER LEVEL CONTROLLER

- Enclosure: NEMA 4X
Constructed of Glass-Filled Polycarbonate.
Flammability rating of U194V-1.
Fully Gasketed Cover.
1/2" Electrical Conduit Connection.
- Relay: Inductive Plug in Type.
Voltage Primary 120.
Mechanical Life: 30,000,000 Cycles.
Voltage Secondary 24V
Sensitivity Variable Between: 4.7K OHM & 100K OHM.
LED Operation Indicator.
- Electrodes: (3) 1/4" Stainless Steel (other materials available).
Common Ground Probe.
- Mounting: Lengths approximately 8-1/2", 10", (11" ground)
± 1" Vertical Adjustment

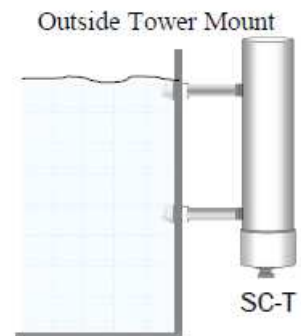
SPECIFICATIONS—STILLING CHAMBER SC-T and SC-N

- Construction: SC-T Outside Mount, SC-N Inside Mount
(SC-T and SC-N) 2" PVC Body.
(SC-T) 1/2" MPT SCHD/ 80 PVC Mounting Nipples
(SC-T) 1/2" MPT Drain Plug
- Mounting: (SC-T) (2) 1/2" Scru-Tite Hubs
(Option PVC hubs or Stainless Steel)
(SC-T and SC-N) 8" Centers.
(SC-N) Stainless Steel 'L' bracket

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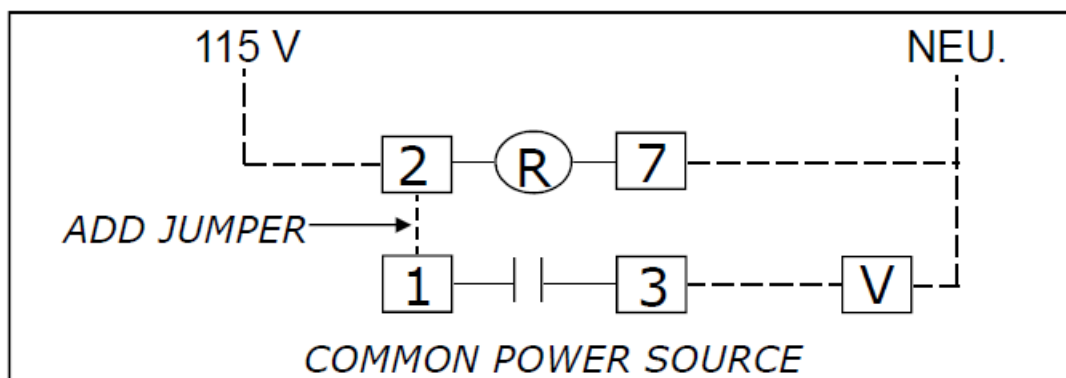
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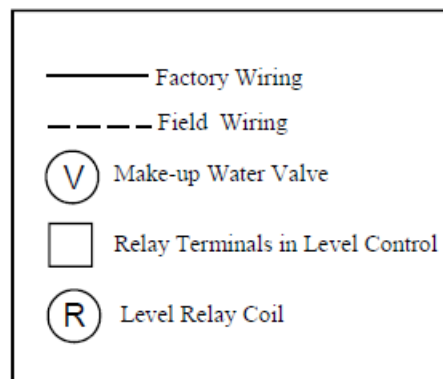
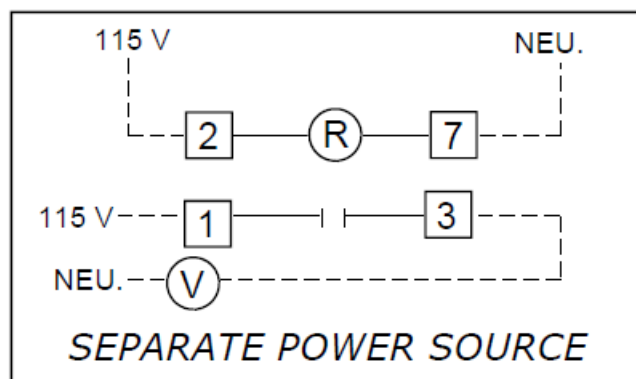
WLC-3 WIRING DIAGRAM—3-PROBE WATER LEVEL CONTROL

- 1) WLC-2—3 Probe Water level will be maintained between the upper two probes. Probes may be cut, if desired to meet your requirements, however all probes must maintain their original configuration.
- 2) Install controller in 2" stilling chamber (stand-pipe) PVC or Steel. We recommend the electrical flex to the controller have sufficient slack to remove controller from stilling chamber for electrode inspection/cleaning without disconnecting wiring.
- 3) The water level will be maintained by the two upper electrodes. Middle electrode determines the lowest water level.
- 4) Set screw in collar will allow for minor level adjustments and removal of controller for inspection and cleaning.
- 5) Clean all debris (chips and oil) from stilling chamber before installation of level controller.
- 6) Outside mount stilling chamber (SC-T): **If exposed to freezing temperatures the stilling chamber should be heat taped and insulated.**
- 7) **ONLY SELF REGULATING** heat tape should be used. Controller will not operate if electrodes are encased in ice.
- 8) **RELAY DIAL MUST BE SET AT #10 AT ALL TIMES !**

We strongly recommend that a slow opening and closing water valve be used in conjunction with this electronic level controller to minimize water hammer in the pipe system. We can provide a valve at a nominal charge.



RELAY CONTACTS ARE DRY - NO POWER



WLC-5 5 PROBE WATER LEVEL CONTROL WITH HI AND LO ALARM CONTACTS AND STILLING CHAMBER

Our systems are self contained to provide a reliable means of basin water level control in your cooling tower, evaporative condenser or closed circuit cooler. The ease of service is accented by the plug in control relay and slip connection for mounting. It is no longer necessary to disconnect wiring to remove the controller for electrode inspection or control relay replacement. A spare plug in control relay can be stocked by the customer for instant replacement in event of relay failure. Minor level adjustments are accomplished by simply loosening the mounting collar set screw and sliding the controller to the proper level.

The stilling chambers are designed to minimize the wave action that is in the basin water, therefore eliminating rapid cycling of the make-up valve. Easily mounted to the basin with two 1/2" scru-tit hubs; a 1/2MPT drain plug is utilized in the bottom of this chamber to facilitate flushing and cleaning if required or the 'L' bracket chamber installation is extremely cost effective.



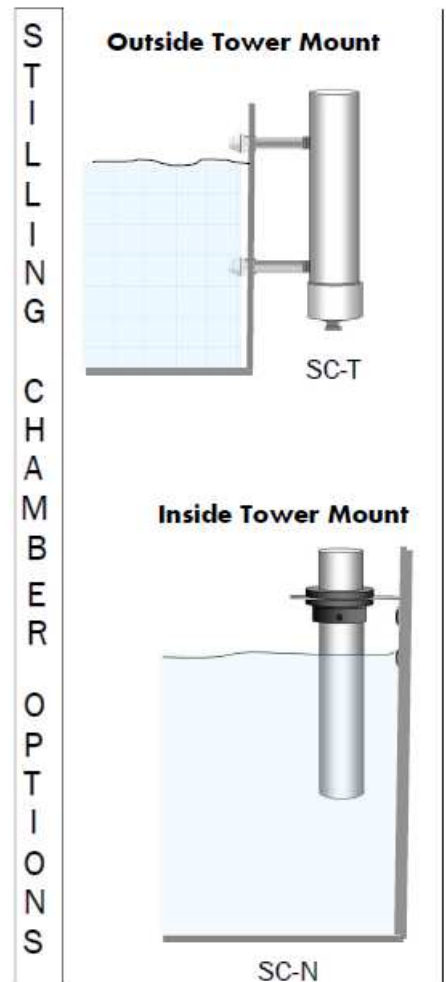
WLC-5

SPECIFICATIONS—WATER LEVEL CONTROLLER

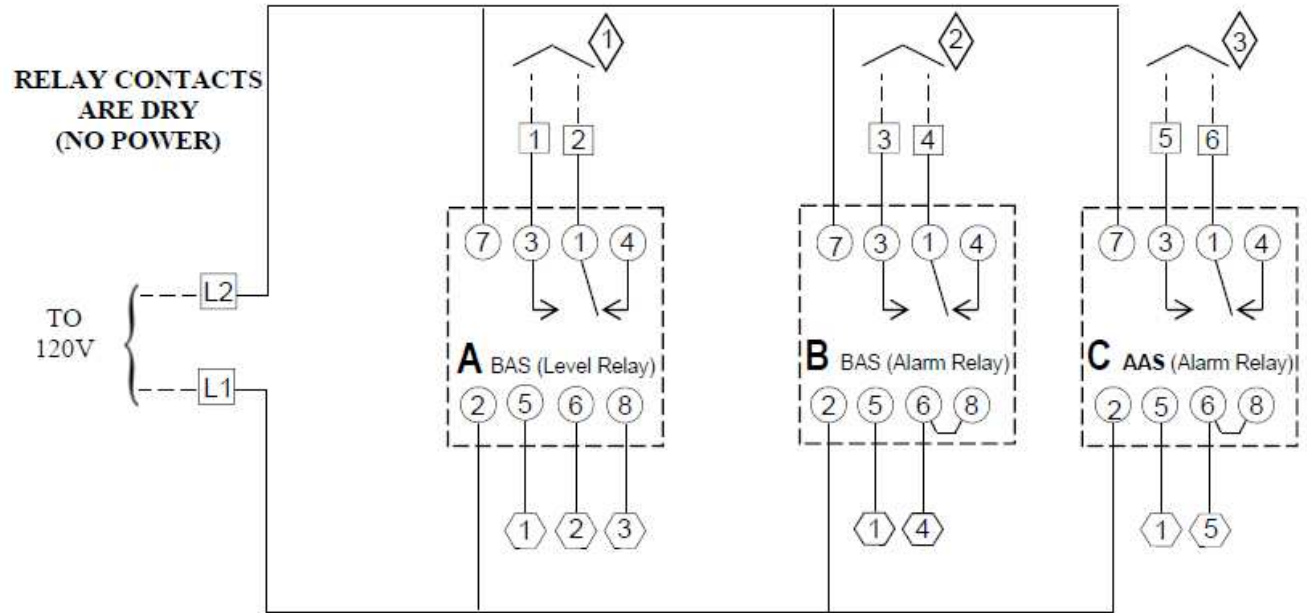
- Enclosure: NEMA 4X
Constructed of Glass-Filled Polycarbonate.
Flammability rating of U194V-1.
Fully Gasketed Cover.
1/2" Electrical Conduit Connection.
- Relay: Inductive Plug in Type.
Voltage Primary 120.
Mechanical Life: 30,000,000 Cycles.
Voltage Secondary 24V
Sensitivity Variable Between: 4.7K OHM & 100K OHM.
LED Operation Indicator.
- Electrodes: (5) 1/4" Stainless Steel (other materials available).
Common Ground Probe.
- Mounting: Lengths approximately 8-1/2", 10", 11" ground.
± 1" Vertical Adjustment

SPECIFICATIONS—STILLING CHAMBER SC-T and SC-N

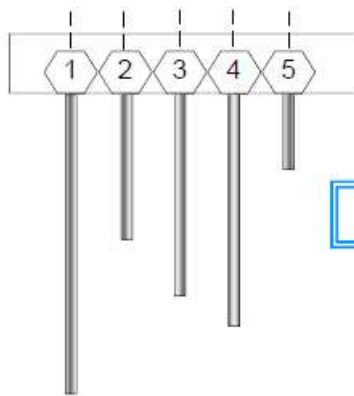
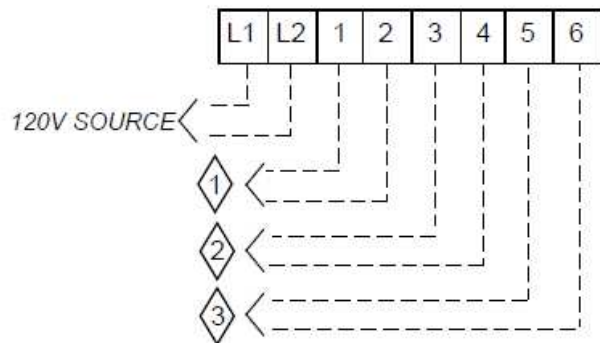
- Construction: SC-T Outside Mount, SC-N Inside Mount
(SC-T and SC-N) 2" PVC Body.
(SC-T) 1/2" MPT SCHD/ 80 PVC Mounting Nipples
(SC-T) 1/2" MPT Drain Plug
- Mounting: (SC-T) (2) 1/2" Scru-Tite Hubs
Zinc Hubs standard
(SC-T)—Option Hubs: PVC Hubs or Stainless Steel, Call
(SC-T and SC-N) 8" Centers.
(SC-N) Stainless Steel 'L' Bracket



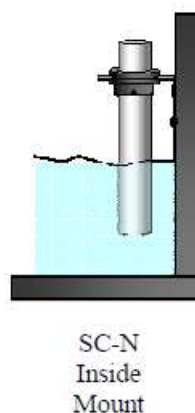
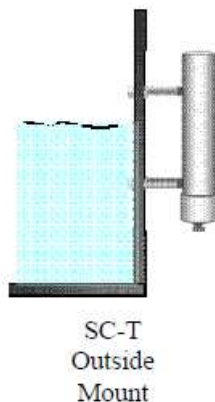
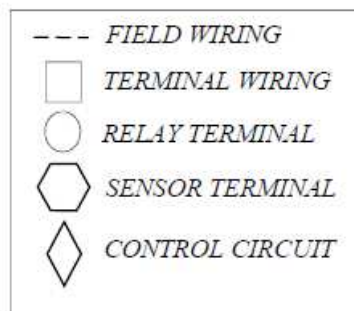
WLC-5 Wiring Diagram -5 PROBE WATER LEVEL CONTROL WITH HI AND LO ALARM CONTACTS AND STILLING CHAMBER



- 1 TO MAKE-UP WATER CIRCUIT
- 2 TO LOW WATER ALARM CIRCUIT
- 3 TO HIGH WATER ALARM CIRCUIT



RELAY CONTACTS ARE DRY - NO POWER





The "G" System

Freeze Protection with **G-3**

3-Probe Water Level Control, Sensor Head and Stilling Chamber mounted inside tower for freeze protection and Remote Relay Panel mounted outside tower away from wet environment.

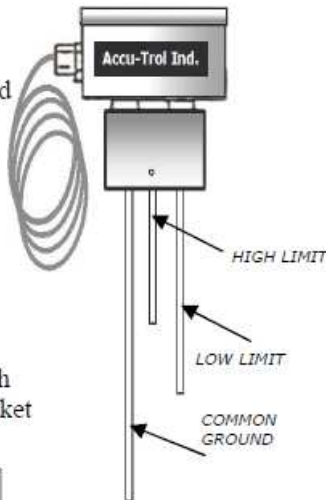


Remote Relay
Panel with
stainless steel
bracket
3 probe system
RP-3G



Cord
Adaptor
"P" Cap

Sensor Head
3 probe, 10' cord
SH-3G

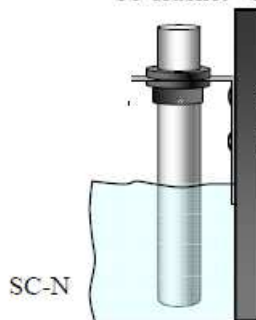


Stilling Chamber with
stainless steel "G" bracket
for Evapco Towers
SC-G



SC-G

Stilling Chamber
SS bracket SC-N



SC-N

Accu-Trol systems are self contained to provide a reliable means of basin water level control in your cooling tower, evaporative condenser or closed circuit cooler. The ease of service is accented by the plug in control relay and slip connection for mounting. It is no longer necessary to disconnect wiring to remove the controller for electrode inspection or control relay replacement. A spare plug in control relay can be stocked by the customer for instant replacement in event of relay failure. Minor level adjustments are accomplished by simply loosening the mounting collar set screw and sliding the controller to the proper level.

The stilling chamber is designed to minimize the wave action that is in the basin water, therefore eliminating rapid cycling. Easily mounted to the basin with a clip on stainless steel bracket the chamber installation is extremely cost effective.

G-4, and G-5 probe systems available.



3 PROBE **G** SYSTEM LEVEL CONTROL AND STILLING CHAMBER

Accu-Trol systems are self contained to provide a reliable means of basin water level control in your cooling tower, evaporative condenser or closed circuit cooler. The ease of service is accentuated by the plug in control relay and slip connection for mounting. It is no longer necessary to disconnect wiring to remove the controller for electrode inspection or control relay replacement. A spare plug in control relay can be stocked by the customer for instant replacement in event of relay failure. Minor level adjustments are accomplished by simply loosening the mounting collar set screw and sliding the controller to the proper level. The stilling chamber is designed to minimize the wave action that is in the basin water, therefore eliminating rapid cycling. Easily mounted to the basin with a clip on stainless steel bracket the chamber installation is extremely cost effective. Level controllers and stilling chambers are available for quick delivery.

Also available in a 5 probe system, level control, hi and low alarm contacts.

SPECIFICATIONS - LEVEL CONTROL

Enclosure:

NEMA 4X
Constructed of Glass-Filled Polycarbonate.
Flammability rating of U194V-1.
Fully Gasketed Cover.
1/2" Electrical Conduit Connection.

Relay:

Inductive Plug In Type.
Voltage Primary 120.
Mechanical Life: 30,000,000 Cycles.
Voltage Secondary 24V.
Sensitivity Variable Between: 4.7K OHM & 100K OHM.
LED Operation Indicator.

Electrodes:

(3) 1/4" Stainless Steel
(other materials available).
Common Ground Probe.

Mounting:

Clip on SS Bracket

Optional:

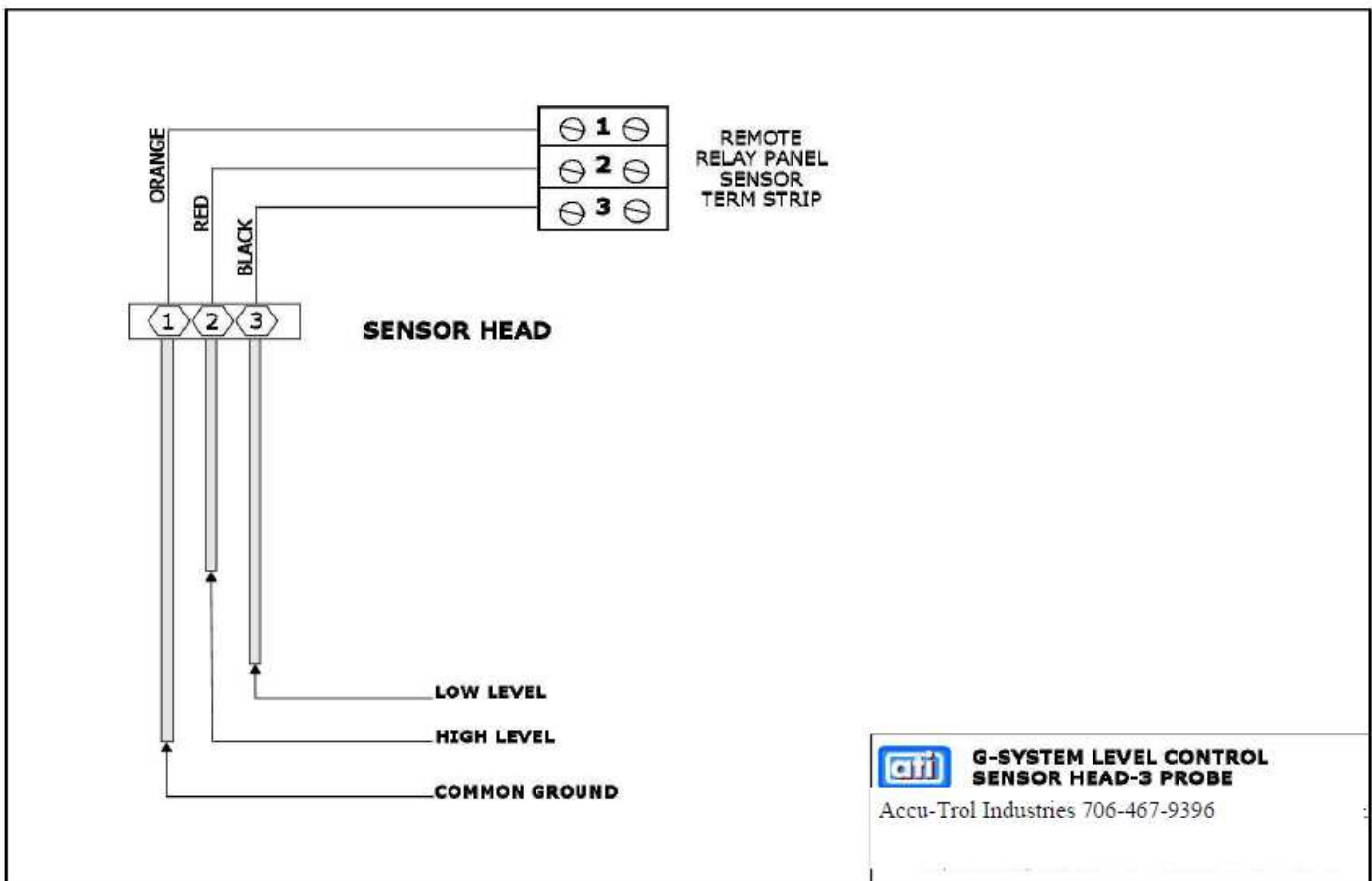
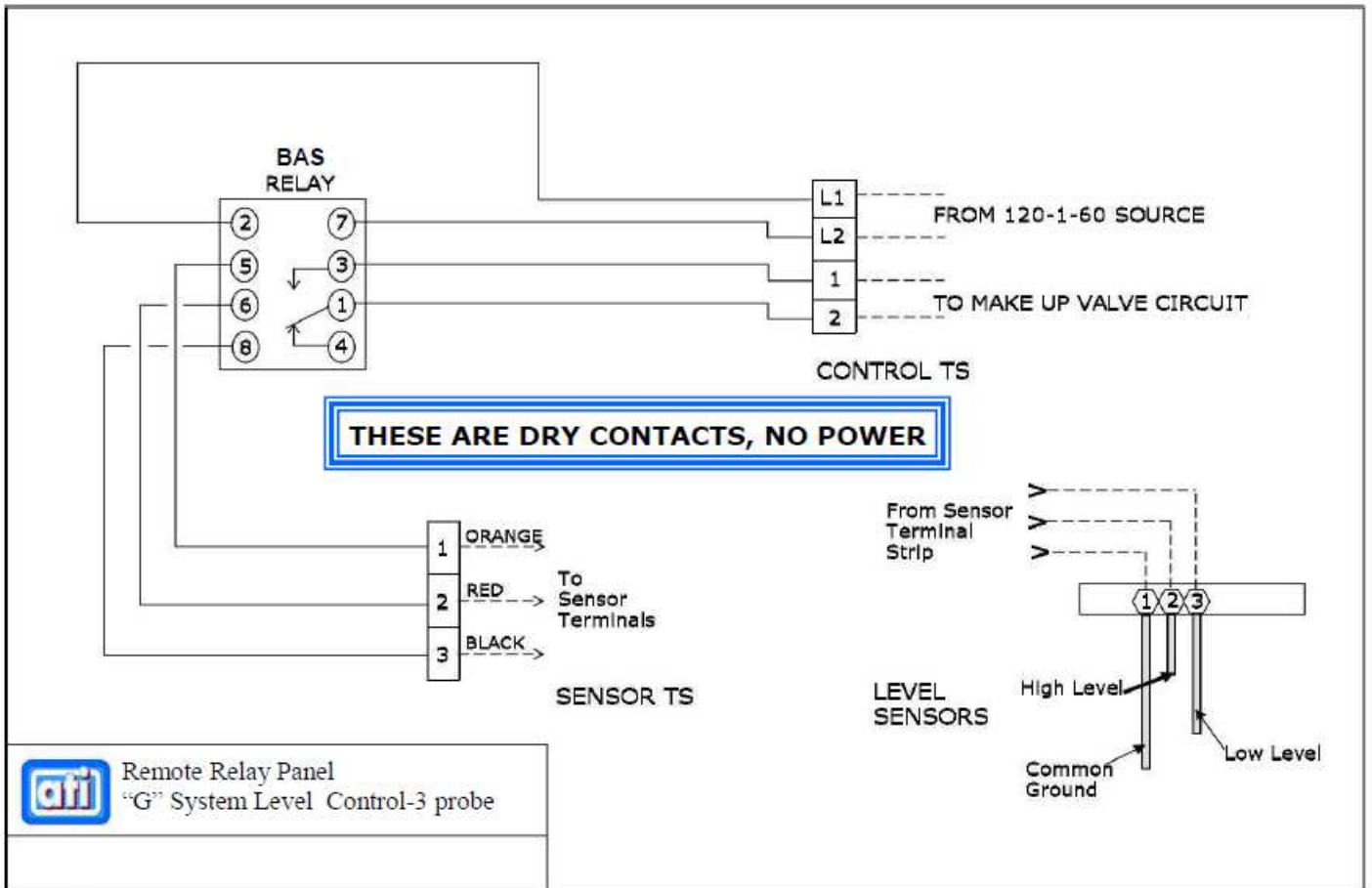
"B" bracket, Universal Adaptor Bracket



SPECIFICATIONS - Stilling Chamber

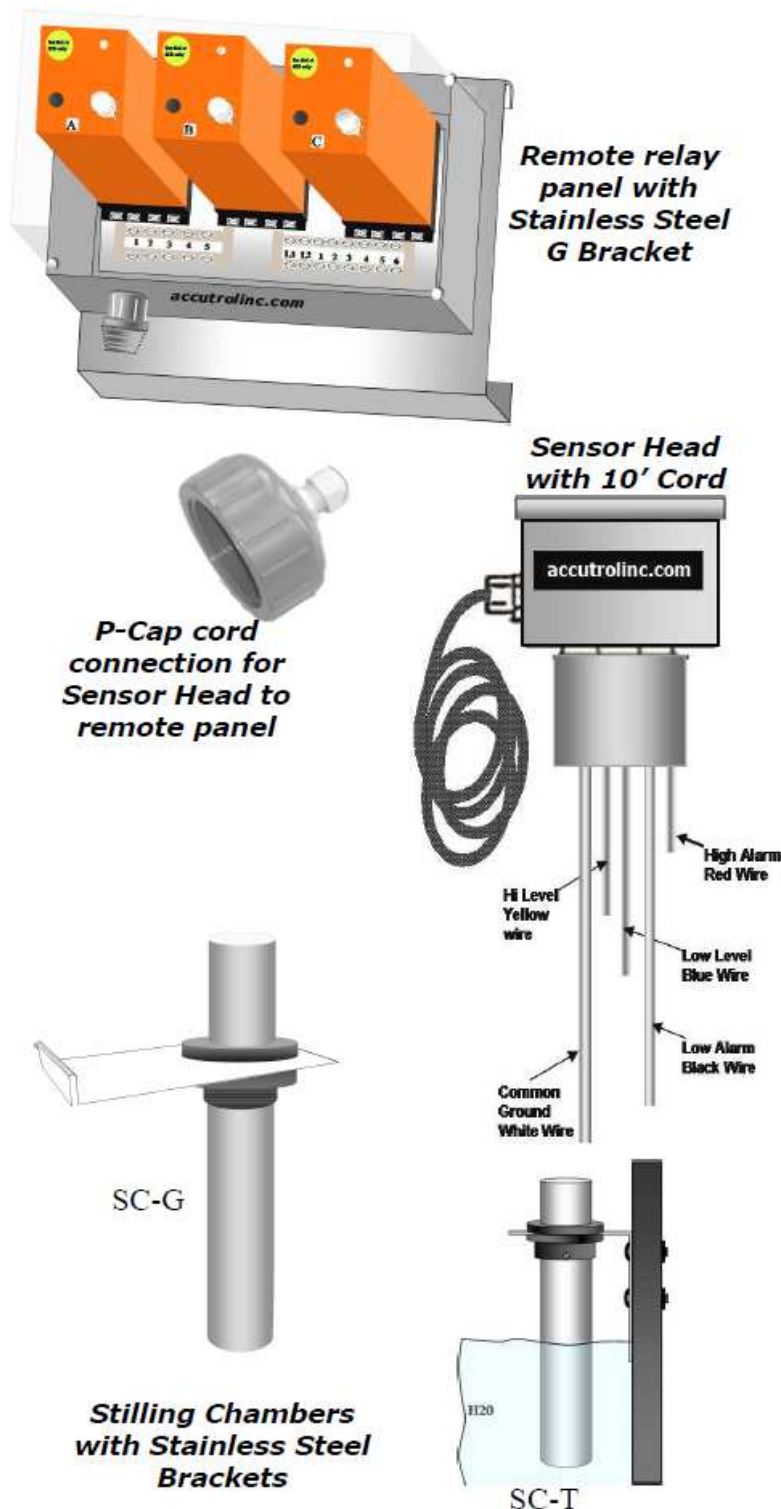
Construction: 2" PVC Body.

Mounting: Clip on Stainless Steel Bracket



Accu-Trol 5 Probe "G" System Water Level Control with High and Low Alarm Contacts

THE BEST SYSTEM FOR FREEZE PROTECTION



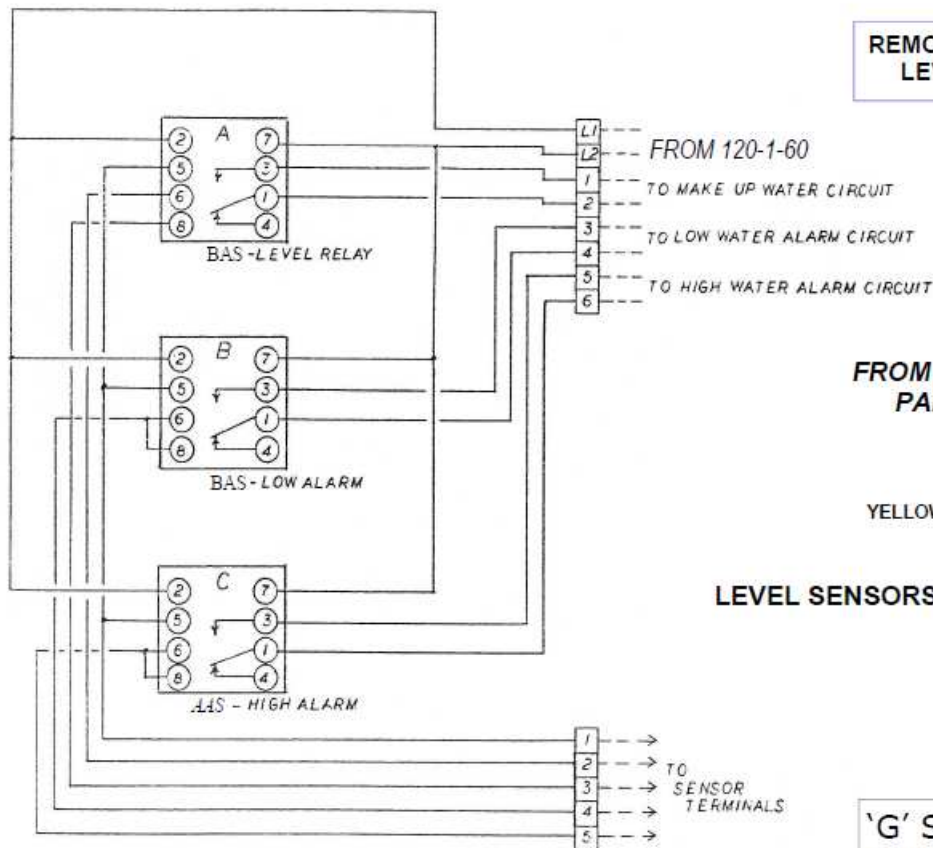
The G systems are self contained to provide a reliable means of basin water level control in your cooling tower, evaporative condenser or closed circuit cooler. The ease of service is accented by the plug in control relay and slip connection for mounting. It is no longer necessary to disconnect wiring to remove the controller for electrode inspection or control relay replacement. A spare plug in control relay can be stocked by the customer for instant replacement in event of relay failure. Minor level adjustments are accomplished by simply loosening the mounting collar set screw and sliding the controller to the proper level.

The stilling chamber is designed to minimize the wave action that is in the basin water, therefore eliminating rapid cycling. Easily mounted to the basin with a clip on stainless steel bracket the chamber installation is extremely cost effective.

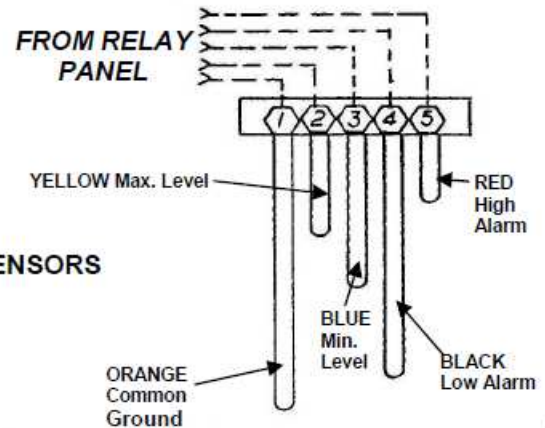
Level controllers and stilling chambers are in stock for quick delivery. Ask about our 3 and 4 probe systems.

accutrolinc.com Ph. 706.467.9396

**REMOTE RELAY PANEL G-SYSTEM 5 PROBE
LEVEL CONTROL WITH HI & LO ALARM**

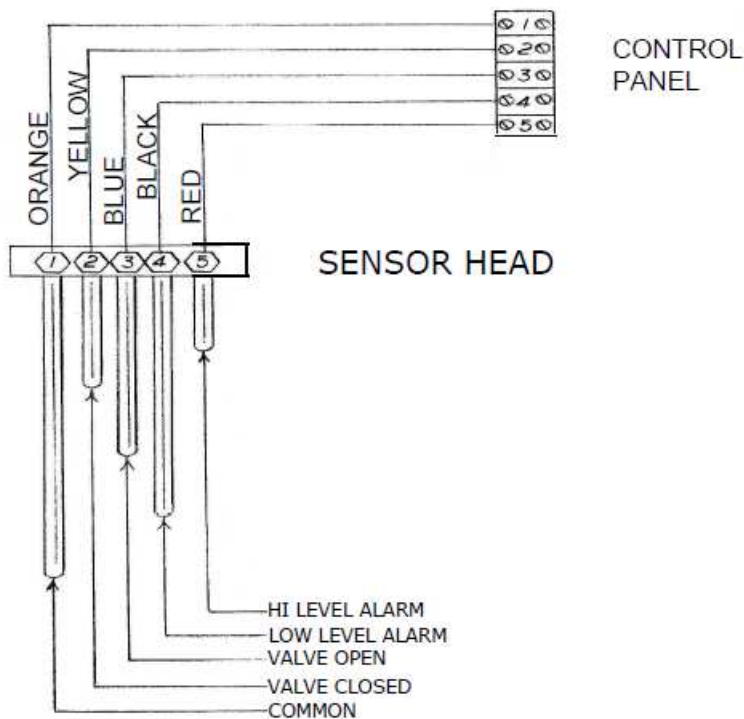


DRY CONTACTS
NO POWER



LEVEL SENSORS

**'G' SYSTEM REMOTE RELAY PANEL
5 PROBE
ACCU-TROL INC. Ph.706.467.9396**



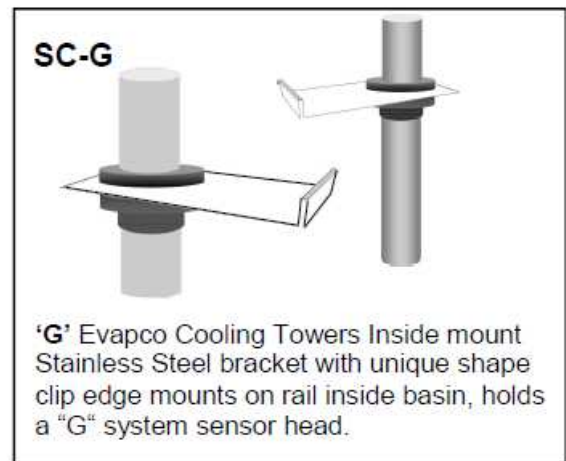
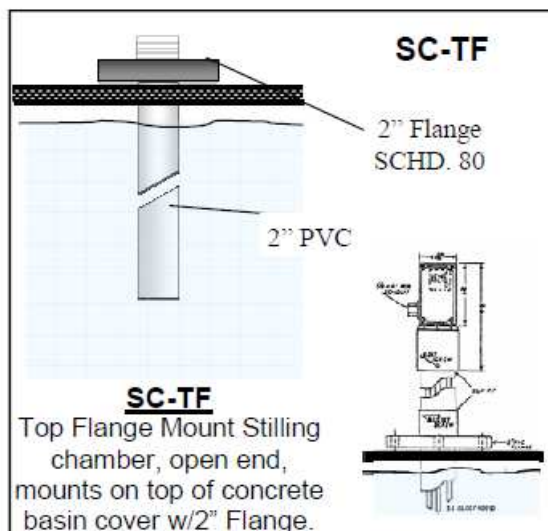
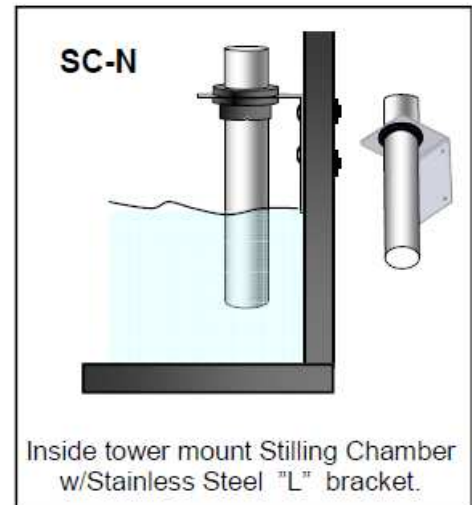
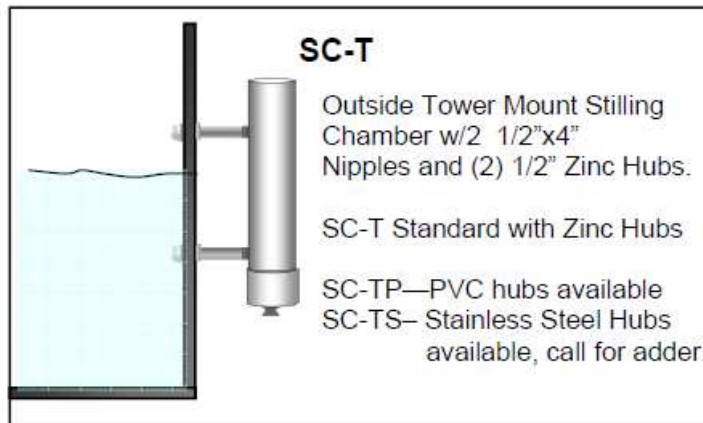
**SENSOR HEAD
G-SYSTEM 5 PROBE LEVEL CONTROL
WITH HI & LO ALARM**

**'G'-SYSTEM SENSOR HEAD
LEVEL CONTROL-5 PROBE
ACCU-TROL INC. Ph.706.467.9396**

STILLING CHAMBERS

Designed to minimize wave action, eliminating rapid cycling of the makeup valve.

<u>P/N</u>	<u>DESCRIPTION</u>
SC-T	Stilling Chamber, Outside Mount with 2-1/2" X 4 nipples and 1/2" Zinc hubs
SC-N	Stilling Chamber, Inside Mount w/Stainless Steel "L" Bracket (May also be used with "G" systems)
SC-TF	Stilling Chamber Top Flange Mount, Open End
SC-G	"G" System Stilling Chamber w/Stainless Steel Bracket featuring special U shape edge for mounting sensor head inside Evapco Towers
SC-C	Stilling Chamber Custom Quoted per Custom Specifications.



NOTE: (T) Outside Mount style, one 1/2" zinc hub on enclosure for conduit connection.
(N) Inside Mount style, with 10' power cord connection.



ELECTRIC DIAPHRAGM GLOBE VALVE

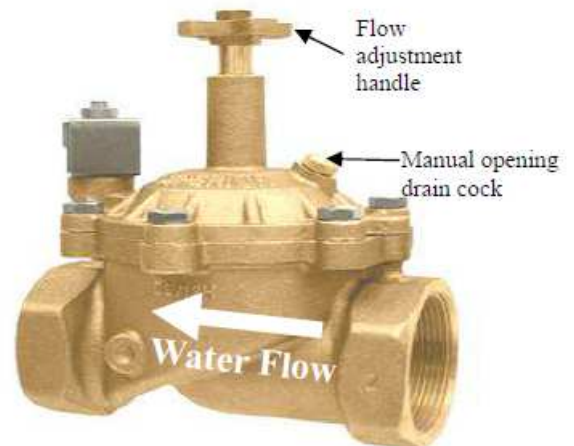
MODEL 975

ELECTRIC DIAPHRAGM

BRASS GLOBE VALVE

Normally Closed

Available in 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" & 3"



FEATURES

- Recommended Operating pressure: 50psi
- Max. operating pressure: 200psi.
- Solid brass construction.
- Water-proof solenoid coil.
- Coil can be rotated 360° and easily removed without removing solenoid operator.
- Normally Closed, Slow Closing, Slow Opening. No water hammer, surge or noise.
- Manual operation in the event of power failure with a solid brass heavy duty drain cock.
- Manual flow control standard on all sizes.
- 24 or 110 volts standard with conduit solenoid housing.
- Self-cleaning orifice.
- Minimum differential pressure required 15 PSI

Diaphragm of one-piece molded construction with integral O-ring seal reinforced with 600 lb. test fabric. Three year warranty against defective parts and workmanship.

IPS SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"
Height	4"	5 1/4"	5 1/2"	7"	7 1/4"	10"
Length	3 5/8"	4 3/8"	"	5 5/8"	5 5/8"	Length 11 5/8" Width 11"

VALVE FLOW RATE (GPM)				
IPS SIZE	PRESSURE DIFFERENTIAL IN PSI			
	15#	20#	30#	40#
3/4"	26	28	39	40
1"	52	60	78	85
1 1/4"	75	95	120	137
1 1/2"	110	125	164	169
2"	160	200	231	250

PART NUMBERS AND DESCRIPTIONS

Part Numbers and Description.....	20-28
Notes and Add Items.....	29

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Phone 352.513.3276



Fax 866.733.1836



CONTROL PANELS

PART NUMBERS AND DESCRIPTION



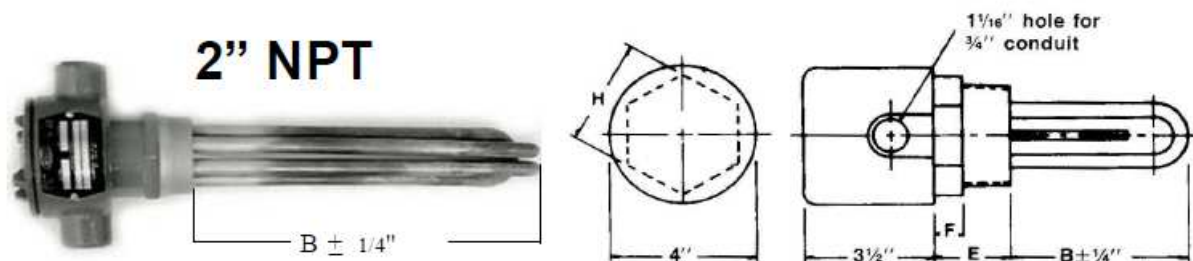
P/N	DESCRIPTION
BHCP - 208V or 480V Voltage - Phase - KW	208V, 220V, 240V or 480V Basin Heater Control Panel (includes Electrode and Bulb Well Assembly)
BHCP - 277V Voltage - 1 Phase - KW	277V Single Ph Basin Heater Control Panel (includes Electrode and Bulb Well Assembly)
BHCP - 575V Voltage - Phase - KW	575V Basin Heater Control Panel (includes Electrode and Bulb Well Assembly)
<i>The Phase, Voltage and KW will determine the amperage. Accu-Trol standard panel capacity is up to 50 amps. For higher amp call for pricing.</i>	
BHCP-DIS - Voltage - Phase - KW	Disconnect Basin Heater Panel (includes Electrode and Bulb Well Assembly)
BHCP-DIS-FUSE - Voltage - Phase - KW	Disconnect and Fusing Basin Heater Panel (includes Electrode and Bulb Well Assembly)
PNL-C	Custom panels per customers specifications, quoted on request.
 86 deg.	Tstat2 Replacement thermostat, SPDT Snap acting, Range -22 to F, Differential 5 degree, SS Capillary Length 60".
 EBW	Replacement Electrode and Bulb Well assembly, SS Hex Plug, Electrode and SS Well.

<u>ZINC SCR-U-TITE HUBS</u>		<u>PVC SCR-U-TITE HUBS</u>	
Size	P/N	Size	P/N
1/2"	Hub-050	1/2"	PVC-050
3/4"	Hub-075	3/4"	PVC-075
1"	Hub-100	1"	PVC-100
2"	Hub-200	2"	PVC-200

STAINLESS STEEL HUBS AVAILABLE, CALL FOR PRICING

SCREW PLUG IMMERSION HEATER**Part # and Size**

KW	VOLTAGE	PHASE	"B" DIM	PART NO.
2.82	208	3	9 1/2"	H-300-15
3	480	3	8 1/16"	H-300-13
4	208	3	10 1/8"	H-400-29
4	480	3	10 3/8"	H-400-07
5	208	3	12 5/8"	H-500-09
5	480	3	12 5/8"	H-500-01
6	208	3	19 5/16	H-600-16
6	480	3	17 5/16"	H-600-02
7	208	3	24 1/2"	H-700-12
7	480	3	18 1/2"	H-700-03
7.5	208	3	19 1/16"	H-750-32
7.5	480	3	19 1/4"	H-750-33
8	208	3	26 5/8"	H-800-11
8	480	3	19 1/2"	H-800-04
9	208	3	32 1/8"	H-900-21
9	480	3	24 7/16"	H-900-05
10	480	3	26 5/8"	H-100-08
12.5	208	3	43 1/8"	H-120-44
12	480	3	32 1/2"	H-120-06
15	208	3	51 3/8"	H-152-17
15	480	3	40"	H-150-23
16.7	480	3	43 1/8"	H-167-38
18	480	3	47 1/2"	H-180-46
20	480	3	51 3/8"	H-200-64



WATER LEVEL CONTROLS

PART NUMBERS AND DESCRIPTION

(STILLING CHAMBERS SOLD SEPARATE FROM CONTROL, SEE SEPARATE PAGE)

SEE CORRESPONDING IMAGES FOR WATER LEVEL CONTROLS

P/N	DESCRIPTION
WLC-3	3 Probe Water Level Control (No Stilling Chamber)
WLC-3-T	3 Probe Water Level Control Outside Mount, 1/2" conduit hub opening(1 relay)
WLC-3-N	3 Probe Water Level Control Inside Mount w/10' cord (1 relay)
WLC-5	5 Probe Water Level Control (No Stilling Chamber)
WLC-5-T	5 Probe Water Level Control, 1/2" hub opening for conduit (3 relays)
WLC-5-N	5 Probe Water Level Control, 10' cord, (3 relays)
WLC-4-HA-	Water Level Control with High Alarm Contact only, 4 Probe (2 relays)
WLC-4-LA- ^{\bar{T} or \bar{N}}	Water Level Control with Low Alarm Contact only, 4 Probe (2 relays)
HLA-3- ^{\bar{T} or \bar{N}}	High and Low Alarm Contacts Only, No water level, 3 Probe (2 relays)
HA-2- ^{\bar{T} or \bar{N}}	High Alarm contact Only, No water level, 2 Probe (1 relay)
LA-2- ^{\bar{T} or \bar{N}}	Low Alarm Contact Only, No water level, 2 Probe, (1 relay)
^{\bar{T} or \bar{N}}	

STILLING CHAMBER—See Stilling Chamber Sheet

(T) Outside Tower Mount style, one 1/2" zinc hub on enclosure for conduit connection.

(N) Inside Tower Mount style, with 10' power cord connection.

Water Level Control Relays:

RLY-BAS-110V.....Makes on a fall in water level (24V Available)

RLY-AAS-110V.....Makes on a rise in water level (24V Available)

CRD - Cord—For Inside mount WLC Standard 10' Cord, additional length available, call for adder.

EPSS - Electrodes / probes, stainless steel, (3 pr standard lengths 9-1/2, 11, 12")

(5 pr standard lengths 9-1/2, 10-1/2, 12, 13, 13") longer lengths available, call for adder.


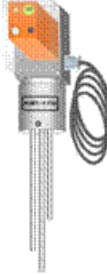
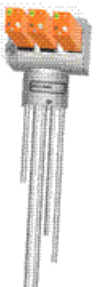
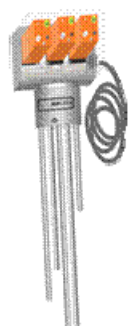
HDC—HOLD DOWN CLIPS SET (Available—Set of two hold down clips to secure relay in place for excessive vibration environment.

Customized controls available. Built to customers specification, call for quote.

WATER LEVEL CONTROLS

PART NUMBERS AND DESCRIPTION

(Stilling chambers not included, see Stilling Chamber Sheet)

P/N	DESCRIPTION	
WLC-3	3 Probe Water Level Control (No Stilling Chamber)	
WLC-3-T	3 Probe Water Level Control, mounted outside tower, 1/2" conduit hub opening(1 relay)	
WLC-3-N	3 Probe Water Level Control mounted inside tower w/10' cord (1 relay)	
WLC-5	5 Probel Water Level Control (No Stilling Chamber)	
WLC-5-T	5 Probe Water Level Control with High and Low Alarm contacts, mounted outside tower, 1/2" hub opening for conduit (3 relays)	
WLC-5-N	5 Probe Water Level Control with High and Low Alarm contacts, mounted inside tower, 10' cord, (3 relays)	

NOTE: (T) Outside Mount style, one 1/2" zinc hub on enclosure for conduit connection.
(N) Inside Mount style, with 10' power cord connection.

CRD - Standard 10' Cord, Additional length available, call for adder.




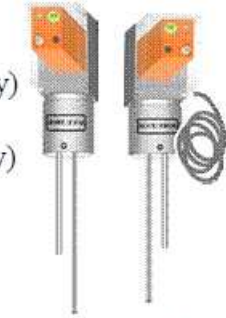
EPSS - Electrode/probes, stainless steel, (3 pr standard lengths 9-1/2, 11, 12")
(5 pr standard lengths 9-1/2, 10-1/2, 12, 13, 13"), longer lengths available, call for adder.

Customized controls available. Built to customers specification, call for quote.

WATER LEVEL CONTROLS

PART NUMBERS AND DESCRIPTION

(Stilling chambers not included, see Stilling Chamber Sheet)

P/N	DESCRIPTION	
WLC-HA-4-___ T or N	Level Control with High Alarm only Contact 4 Probe, 1/2" conduit hub opening, (2 relays)	Style T Style N
WLC-LA-4-___ T or N	Level Control with Low Alarm only Contact 4 Probe, 1/2" conduit hub opening, (2 relays)	 Style T Style N
HLA-3-___ T or N	High and Low Alarm Only Contacts, No water level control, 3 Probe (2 relays) 1/2" conduit hub opening, (2 relays)	 Style T Style N
HA-2-___ T or N	High Alarm Contact Only, No water level control, 2 Probe (1 relay)	
LA-2-___ T or N	Low Alarm Contact Only, No water level control, 2 Probe, (1 relay)	

NOTE: (T) Outside Mount style, one 1/2" zinc hub on enclosure for conduit connection.

(N) Inside Mount style, with a 10' power cord connection.

CRD - Standard 10' Cord, Additional length available, call for adder.

EPSS - Electrode/probes, stainless steel, (3 pr standard lengths 9-1/2, 11, 12")

(5 pr standard lengths 9-1/2, 10-1/2, 12, 13, 13") Longer lengths available, call for adder.

Customized controls available. Built to customers specification, call for quote.

Sensor head installed inside the tower in G stilling chamber and the remote relay panel installed outside the tower away from wet environment, freeze protection.

(G-3) 3 PROBE "G" SYSTEM CONSISTS OF:

P/N

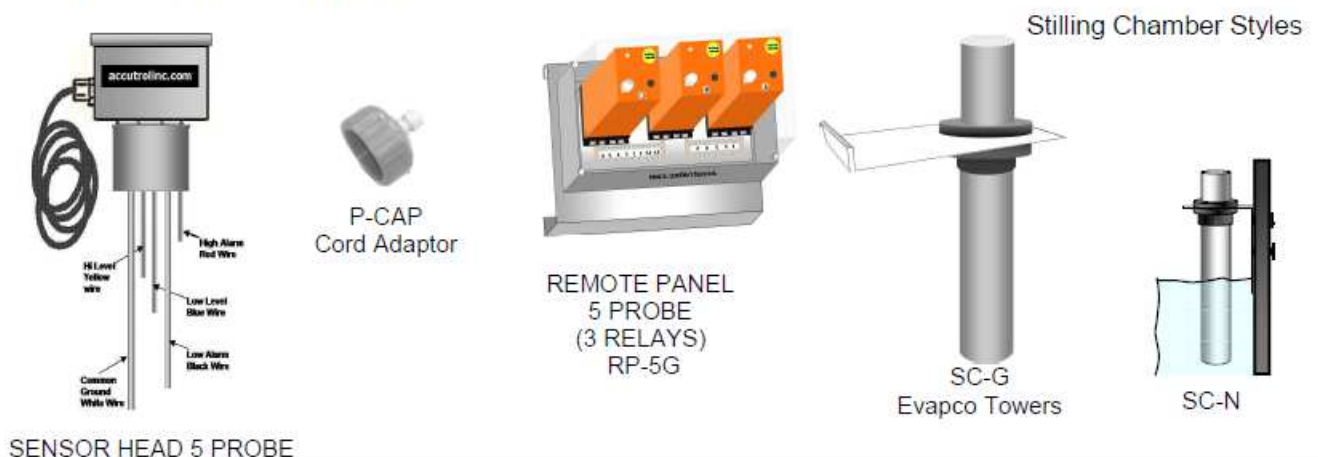
- SH-3G** SENSOR HEAD, 3 ELECTRODES 10-1/2, 12, 13", 10' CORD, W/2" THREADED CAP
- RP-3G** REMOTE RELAY PANEL FOR 3 PROBE SYS., STAINLESS STEEL G BRACKET, 1 RELAY (Adaptor "B" bracket available for installation for other make cooling towers if required).
- SC-G** STILLING CHAMBER WITH STAINLESS STEEL "G" BRACKET FOR SENSOR HEAD AND REMOTE PANEL SYSTEM



(G-5) 5 PROBE "G" SYSTEM CONSISTS OF:

P/N

- SH-5G** SENSOR HEAD, 5 ELECTRODES 9-1/2", 10-1/2, 12, 13, 13", 10' CORD, W/2" THREADED CAP
- RP-5G** REMOTE RELAY PANEL FOR 5 PROBE SYS., STAINLESS STEEL "G" BRACKET, 3 RELAYS (Adaptor "B" bracket available for installation for other make cooling towers if required).
- SC-G** STILLING CHAMBER WITH STAINLESS STEEL "G" BRACKET FOR SENSOR HEAD AND REMOTE PANEL SYSTEM



STILLING CHAMBERS

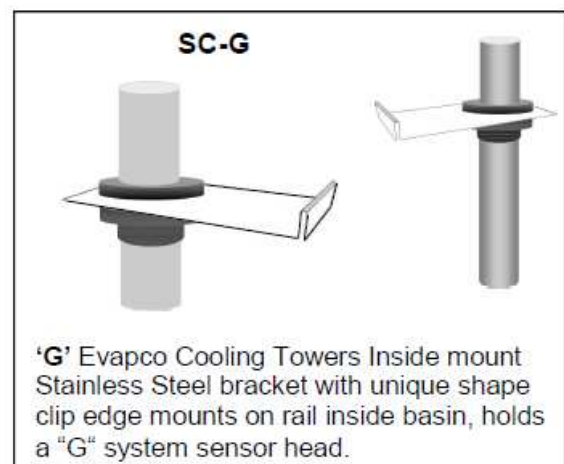
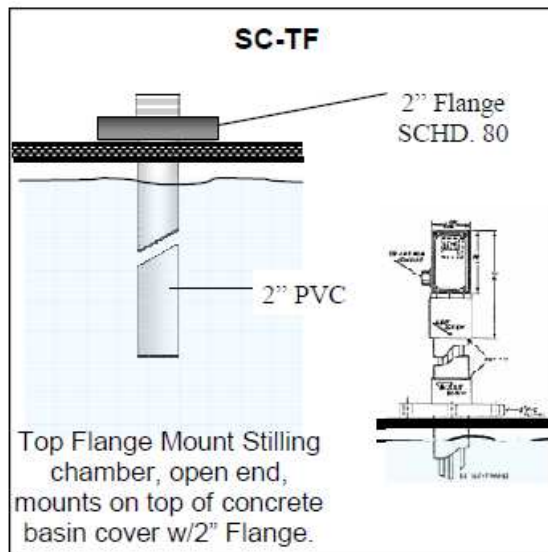
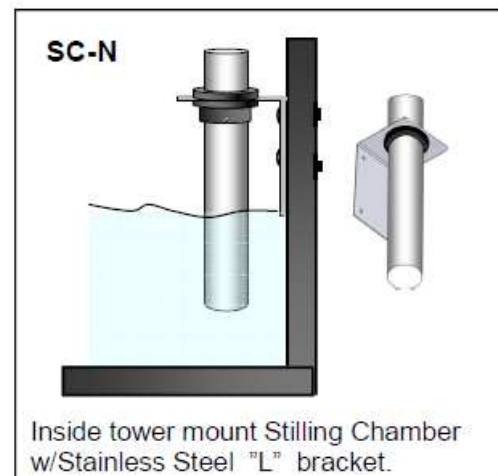
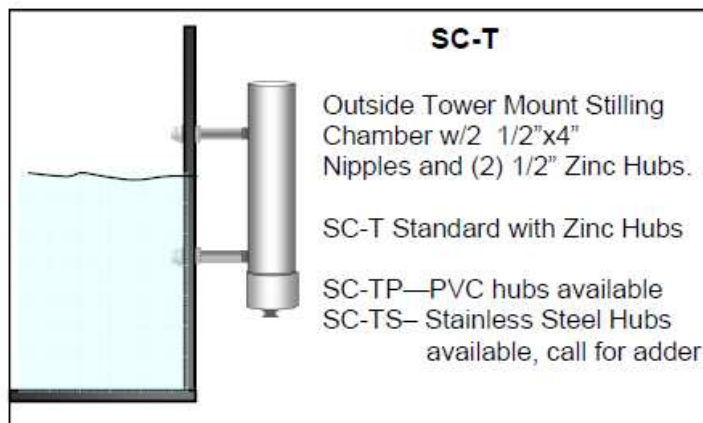
PART NUMBERS AND DESCRIPTION

Designed to minimize wave action, eliminating rapid cycling of the makeup valve.

P/N

DESCRIPTION

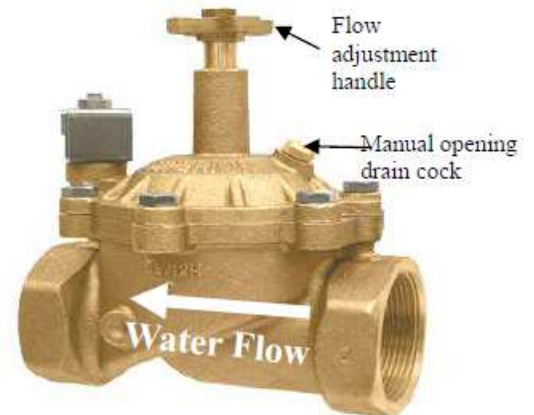
- SC-T Stilling Chamber, Outside Mount with 2-1/2" X 4 nipples and 1/2" Zinc hubs
- SC-N Stilling Chamber, Inside Mount w/Stainless Steel "L" Bracket
(May also be used with "G" systems)
- SC-TF Stilling Chamber Top Flange Mount, Open End, 2" SCH.80 Flange
- SC-G "G" System Stilling Chamber w/Stainless Steel Bracket featuring special U shape edge for mounting sensor head inside Evapco Tower Basin.
- SC-C Stilling Chamber Custom Quoted per Custom Specifications.



NOTE: (T) Outside Mount style, one 1/2" zinc hub on enclosure for conduit connection.
(N) Inside Mount style, with 10' power cord connection.

MODEL 975 SOLENOID VALVE 110V
ELECTRIC DIAPHRAGM
BRASS GLOBE VALVE

Available in
3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" & 3"



NORMALLY CLOSED, SLOW OPEN, SLOW CLOSE

P/N	SIZE	wt/lb
975-075	3/4"	3
975-100	1"	5
975-125	1-1/4"	5
975-150	1-1/2"	8
975-200	2"	10
975-250	2-1/2"	33
975-300	3	33

24V Coil Available—Order P/N 975- -24V
See Size

Dirty Water Valves available (with filter installed) . Order P/N 975-DW-.....
See Size

TERMS AND CONDITIONS OF SALE Terms: Net 30 Prices subject to change without notice • Restocking Charge 40%. • Items returned must not have been installed. Items returned must have a RMA number issued by Accu-Trol before return • Special order Items: No restocking allowed No return on heaters Effective Feb. 15, 2013
ACCU-TROL INDUSTRIES • Ph. 352.513.3276 Fax 866.733.1836

Notes and Add Items: