



OPERATING AND MAINTENANCE MANUAL

ENDURANCE E

6/13/24



-IMPORTANT-

Always reference the full model number and serial number when calling the factory.

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WARNING / CAUTION

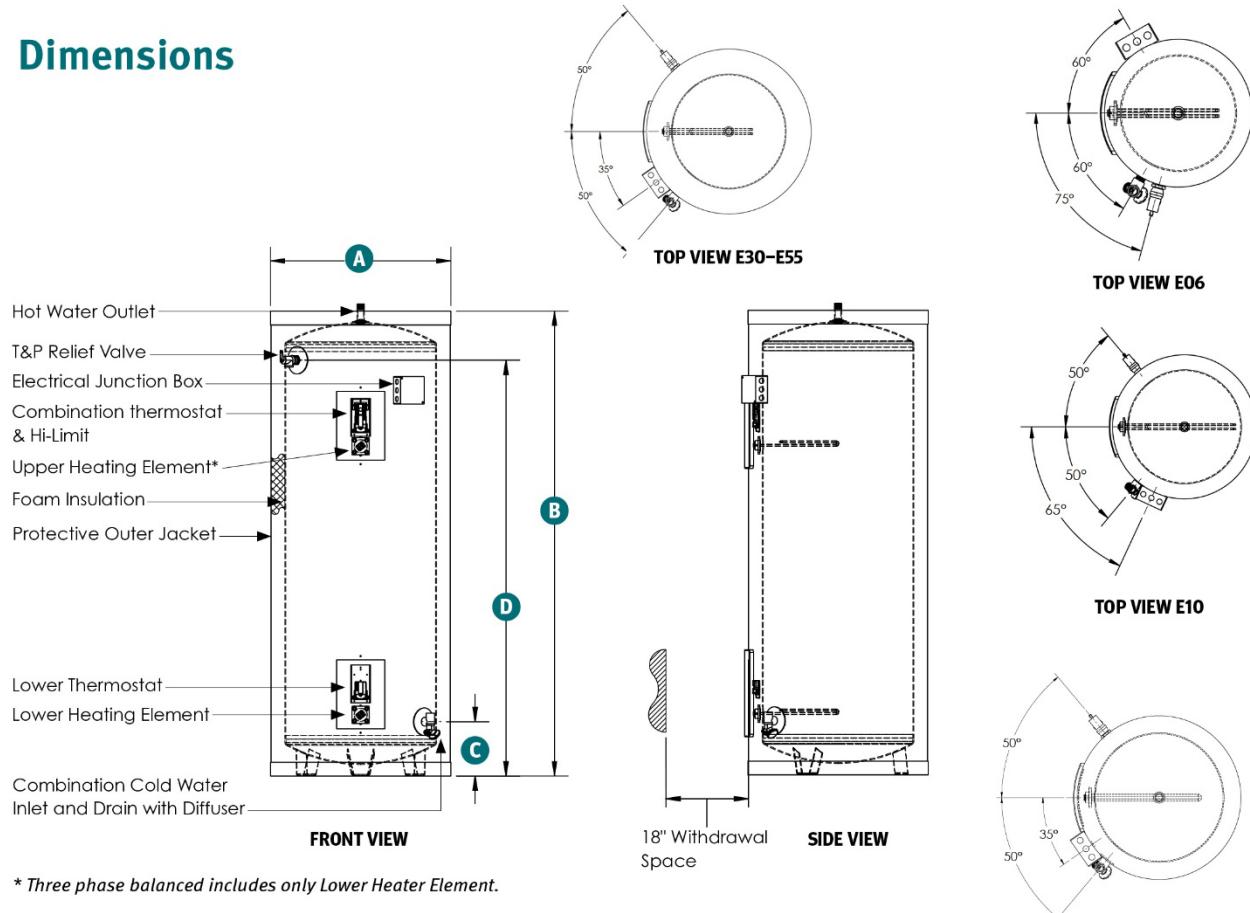
1. Tank is to be completely filled with water and all air is to be vented before energizing.
2. Due to the rigors of transportation, all connections should be checked for tightness before heater is placed in operation.
3. Safety relief valve must be installed in tapping provided.
4. The refractory material used in heating elements may absorb some moisture during transit, periods of storage, or when subjected to a humid environment. This moisture absorption results in a cold insulation resistance of less than one (1) megohms. If this heater has been subjected to the above condition, each heating element must be checked for insulation resistance before energizing. A low megohm condition can be corrected by removing the terminal hardware and baking the element in an oven at 300°F -500°F for several hours or until the proper megohm reading is obtained.
5. **KEEP AWAY FROM LIVE ELECTRICAL CIRCUITS.** Do not perform any maintenance, make any adjustments, or replace any components inside the control panel with the high voltage power supply turned on. Under certain circumstances, dangerous potentials may exist even when the power supply is off. To avoid casualties, always turn the power supply safety switch to **off**, discharge or ground the circuit before performing any maintenance or adjustment procedure.
6. The unit is designed to operate at pressure not more than 150 psi.
7. Generalized instructions and procedures cannot anticipate all situations. For this reason, only qualified installers should perform the installations. A qualified installer is a person who has licensed training and a working knowledge of the applicable codes and regulations, tools, equipment, and methods necessary for safe installation of an electric resistance water heater. If questions regarding installation arise, check your local plumbing and electrical inspectors for proper procedures and codes. If you cannot obtain the required information, contact the company.

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SECTION I - GENERAL DESCRIPTION AND CONSTRUCTION

Dimensions



Endurance E Dimensional Data

Storage Capacity (Gallons)	Base Model Number	Standard Configurations		Dimensions (inches)				Shipping Weight (lbs.)
		KW	Volts 1Φ	Overall Diameter "A"	Overall Height "B"	Floor to Inlet "C"	Floor to T&P "D"	
6	E06	1.5	120, 240	15	19	6.125	12.875	105
10	E10	1.5	120, 240	20	22.5	7.5	14.75	120
19	E20	1.5	120, 240	20	33.75	7.5	26.75	150
30	E30	4.5	240	22.75	41.625	7.5	34.25	225
40	E40	4.5	240	22.75	57.25	7.5	50	240
55	E55	4.5	240	25	59.25	7.875	50.875	375
30	E30U	4.5	240	25	34.25	7	24	205
40	E40U	4.5	240	28	31.75	7	24	270
50	E50U	4.5	240	30	36.25	7	27	300

Under counter options

Notes:

1. 120 volt models are available in 1500, and 2500 Watts only.
2. The 6, 10, and 19 gallon models are available in lower element design only and come standard with 2" insulation. All other sizes have both upper and lower element banks of identical wattage and are wired for non-simultaneous operation and come standard with 3" insulation.
3. 6 gallon available in single phase only.
4. Under counter models SE30U, SE40U, and SE50U hot water outlet is located on the side.

GENERAL DESCRIPTION:

This book describes a packaged electric water heater which is a stationary, self-contained unit. The complete assembly consists of the storage tank, immersion electric heating element(s), thermostat, safety relief valve, safety hi temperature cut out, and any other required electrical operating control. Optional equipment may be supplied with your unit. Please consult the product drawing for details specific to your assembly. The unit is factory assembled, insulated, jacketed, painted, wired, tested and ready for electrical and plumbing service connections.

CONSTRUCTION: TANK

Standard Tank Construction

The standard storage tank is constructed of steel and internally lined with specially formulated HydraStone cement to a $\frac{1}{2}$ -inch minimum thickness. The tank is designed for a maximum allowable working pressure of 150 psi (300 psi TP).

Optional Tank Construction:

Optionally, the storage tank may be constructed of all welded solid copper-silicon alloy (ASTM B-96) or type 316L stainless steel for maximum tank longevity. No internal lining is required due to the non-ferrous materials used in the construction of the pressure vessel. The tank is designed for a maximum allowable working pressure of 150 psi (300psi TP).

TANK CONNECTIONS

The heater is supplied with separate cold water and hot water connections. Water entering the cold water inlet is deflected by means of a baffle within the tank. The hot water outlet includes a built in heat trap to prevent hot water from radiating out from the heater. A $\frac{3}{4}$ -inch FNPT connection is located on the side of the heater for mounting a combination safety temperature and pressure relief valve. An overflow line should be utilized from the relief valve outlet to a floor drain. A $\frac{3}{4}$ -inch GHT connection is supplied for draining. See drawing for locations and sizes.

HEATING ELEMENT

The water heater is supplied with an electric immersion heating element assembly(s), composed of a copper sheathed element(s) that are brazed into a brass flange. Each assembly is fastened to a corresponding tank flange using a gasket and four (4) 3/8-16 x 1-inch long hex head steel bolts and nuts. See drawing for voltage and power ratings.



CONTROL THERMOSTAT

The water heater is supplied as standard with a surface mounted thermostatic switch that is installed and wired at the factory. As an option an immersion thermostat is available. See drawing for specific details. The surface mounted thermostat can be adjusted through a range of 110° - 170° F. The immersion thermostat can be adjusted through a range of 100° - 190° F. Both thermostats are adjustable with a flat tip screwdriver.



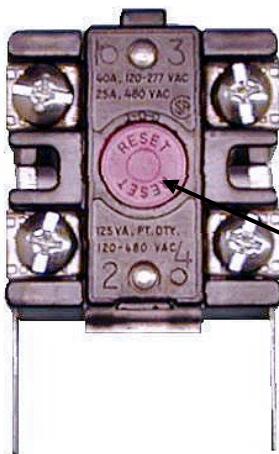
Surface Mounted Thermostat
(Standard)



Immersion Thermostat
(Optional)

TEMPERATURE HIGH LIMIT SWITCH

As a safety device, a surface mounted high temperature cut-off switch with manual reset, factory set at 190° F, is supplied. As an option, an immersion high temperature cut-off switch with manual reset, factory set at 180° F, may be provided. In the event of an over-temperature condition, the thermostat will disengage the power from the system. The high limit must be manually reset in order to restart the heater.



Surface Mounted High
Temperature Cut-Off Switch
(Standard)



Immersion High Temperature Cut-Off Switch
(Optional)

OUTER SHELL AND INSULATION

The tank is encapsulated in 2-inch thick polyurethane foam insulation. The insulation is protected by a high impact non-corroding colorized composite protective jacket.

OPTIONS

The following optional features may be included in your water heater. Reference included drawing specific to your heater for further details.

Low Water Cut-Off

Used as a safety device, the electronic low water cut-off is used to detect a low water situation and disengage the operating coils in the magnetic contactor(s). Once the condition is remedied, the low water cut-off switch is automatically reset.

Dial Temperature and Pressure Gauge

A combination temperature (70° - 250° F) and pressure (0 – 200 psi) gauge with 2½-inch dial may be supplied for in-line installation (shipped loose) or factory installed in the tank.

Vacuum Relief Valve

A vacuum relief valve may be provided with the unit to reduce the risk of back siphonage and back pressure of the system. The valve will be shipped loose for in-line installation. Instructions for installation are provided with the valve.

Building Management System (BMS)

A Building Management System control package may be supplied for remote operation and alarm capabilities.

Electro-Mechanical Timer

An electro-mechanical 7-day time clock with battery back-up may be supplied for specific timing operations. A set of instructions will be supplied with the timer.

Immersion thermostat - specify 100-190°

Low range immersion thermostat – (30 – 110° range)

Immersion adjustable (100-240°) safety hi-limit cut out with manual reset

Off-peak wiring for load management savings

Heating elements wired for simultaneous operation

T1000 digital controller with BACnet communications module

Three phase open delta wiring

Note: alternate voltages available including 380, 415, 440 and 600 volt, please consult factory

1- ½" Male NPT inlet and outlet water connection

Additional ¾" FNPT tappings

Additional 1- ½" FNPT tappings

Integrally welded seismic attachment points

Horizontal ceiling hung or floor mount available

SECTION II – INSTALLATION

WARNING / CAUTION

DO NOT TURN ON THE ELECTRIC POWER SUPPLY to this equipment until the heater is **completely filled with water and all air has been released**. *If the heater is NOT filled with water when the power is turned on the heating elements will burn out.*

For protection against excessive pressures and temperatures, local codes require the installation of a temperature-and-pressure (T&P) relief valve certified by a nationally recognized laboratory that maintains periodic inspection of production of listed equipment of materials, as meeting the requirements for Relief Valves and Automatic Gas Shutoff for Hot Water Supply Systems. ANSI Z21.22-1971. THE CUSTOMER IS RESPONSIBLE TO PROTECT PROPERTY AND PERSONNEL FROM HARM WHEN THE VALVE FUNCTIONS.

All water heaters have a risk of leakage at some unpredictable time. IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE A CATCH PAN OR OTHER ADEQUATE MEANS, SO THAT THE RESULTANT FLOW OF WATER WILL NOT DAMAGE FURNISHINGS OR PROPERTY.

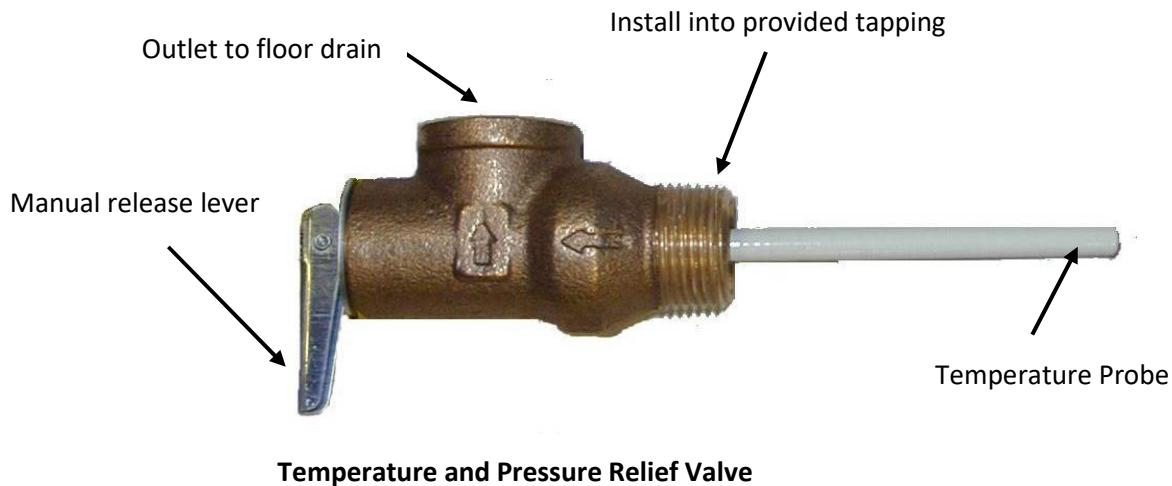
WATER HEATER PLACEMENT

1. Place the heater on a solid foundation in a clean, dry location nearest to the point of most frequent hot water use. If the heater is to be raised off the floor, the entire bottom of the heater should be supported by a solid surface.
2. The water heater should be protected from freezing and waterlines insulated to reduce energy and water waste.
3. Leave a minimum of 18" clearance for element withdrawal, if necessary.
4. Do not install in an area where flammable liquids or combustible vapors are present.

PIPING INSTALLATION

Note: The most effective means for preventing deterioration from accelerated corrosion due to galvanic and stray current is the installation of dielectric fittings/unions. The installation of these fittings is the responsibility of the installation contractor.

1. Connect the cold-water inlet and hot water outlet to the appropriate connections as shown; refer to the drawing for location and sizes.
2. Install in-line vacuum breaker and in-line pressure and temperature gauge, if supplied.
3. Install the combination temperature and pressure safety relief valve in the tapping provided. Note that this is required by law for safety considerations.
4. Install a relief valve overflow pipe to a nearby floor drain. CAUTION: No valve of any type should be installed between the relief valve and tank or in the drain line.



FILLING THE HEATER

1. Completely close the drain valve.
2. Open the highest hot water faucet to allow all air to escape from piping.
3. Open the valve to the cold-water inlet and allow the heater and piping system to completely fill, as indicated by a steady flow of water from the open faucet.

ELECTRICAL INSTALLATION

1. Enter junction box with properly sized feeder leads.
2. Connect these power leads to wires enclosed in junction box with wire nuts.
3. All other electrical connections are made at the factory; therefore, no other electrical connections are necessary.

FINAL CHECKS

1. Check all connections for tightness.
2. Ensure that all the above steps are completed.
3. After the water is heated for the first time, monitor the water temperature as described in Section III, Quarterly Inspection.

SECTION III – SCHEDULED MAINTENANCE AND OPERATION

WARNING / CAUTION

Before performing any maintenance procedure, make certain power supply is **OFF** and cannot accidentally be turned on.

MAINTENANCE AND OPERATION

The water heater is automatic in its operation. It will maintain a full tank of water at the temperature setting of the thermostat. The water heater should not be turned on without first making sure that the tank is full of water and that all air has been released.

FREEZING

The tank should be fully drained in the event the electricity has been turned off and if there is danger of freezing.

QUARTERLY INSPECTION

1. Monitor thermostat
 - a. Let the water heater completely heat to a designated thermostat setting.
 - b. After thermostat satisfies (that is, when the thermostat actually clicks off), draw water from heater.
 - c. Compare the water temperature of drawn water to the temperature setting of the thermostat when it satisfies. Normal variation between the two points is approximately $\pm 5^{\circ}\text{F}$.
 - d. If these two readings do not coincide within acceptable tolerances and verification has been made of the accuracy of the temperature-reading gauge, replace the thermostat.
2. Lift test lever on relief valve and let water run through valve for a period of approximately 10 seconds. This will help flush away any sediment that might build up in water passageways.
3. Inspect element flange for leakage as follows:
 - a. Shut off the Power Supply.
 - b. Remove element access cover.
 - c. Visually inspect heating element gasket for evidence of leaks.
 - d. Rub finger around gasket that is between the heating element and tank flange for any evidence of moisture. If moisture is present or a water drip is observed, follow the procedure outlined in Section V.
4. Check for loose electrical connections. Tighten as necessary.

ANNUAL INSPECTION

1. Flush tank as follows :
 - a. Shut off the power supply.
 - b. Close valve on hot water outlet piping.
 - c. Open valve on drain piping.
 - d. Cold water inlet line pressure will be strong enough to flush sediment from the bottom of the tank out through the drain. Let water run for 3-4 minutes.
 - e. Close drain valve.
 - f. Open hot water valve.
 - g. Turn the power supply ON.

SECTION IV – TROUBLESHOOTING

Symptom	Probable Cause	Corrective Action / Remedy
No hot water	Circuit breaker tripped at source.	Reset circuit breaker.
	High limit switch tripped.	Reset high limit switch.
	Loose wires.	Tighten wires. Torque screws per torque chart included in Section VI.
	Heating element inoperable.	Check heating element operation by clamping an Amprobe around each wire to the element. The ampere reading should agree with the nameplate 'AMP' figure.
	Low line voltage.	Have source electrical system checked by an electrician.
	Faulty thermostat.	Move thermostat dial through full range. A definite 'click' should be heard. If not, replace thermostat.
Water temperature below settings at all times	Faulty low water cut-off, if installed.	Check to see if the tank is full of water. If not, fill the tank. If the problem continues and tank is full, check for continuity between the common and normally open contact of the relay board. If continuity is not observed, replace low water cut-off.
	Faulty thermostat.	Check thermostat adjustment. Monitor thermostat as described in Section III, Quarterly Inspection. Replace if necessary.
	Heating element not working on all phases	Check to see that heating element is working on all phases, by checking the resistance (ohms) value for each element and comparing with the chart included in Section VI.
Relief valve discharges continuously	Heater improperly sized	Verify heater is properly sized for the flow rate and temperature rise of your system. See formulas included in Section VI. Replace elements with proper size as necessary.
	Excessive temperature or pressure in tank	Temperature and pressure relief valves are made to operate if the water temperature exceeds 210°F or water pressure exceeds the pressure rating of the safety relief valve. If trouble is excessive temperature, then thermostat is not shutting off at the right setting and thermostat must be replaced.

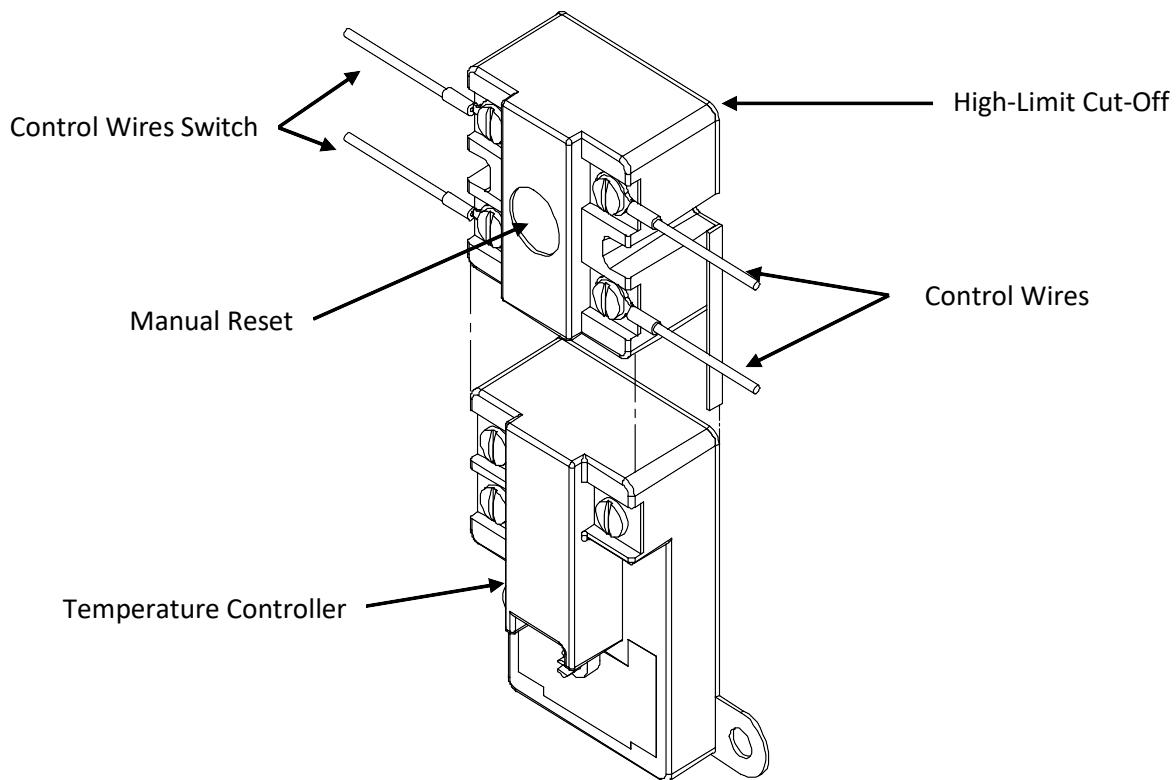
SECTION V - SERVICING & REPLACEMENT OF PARTS

WARNING / CAUTION

Before servicing or replacing any part make sure to turn the power supply switch to the **OFF** position.

SURFACE TEMPERATURE HI-LIMIT CUTOUT

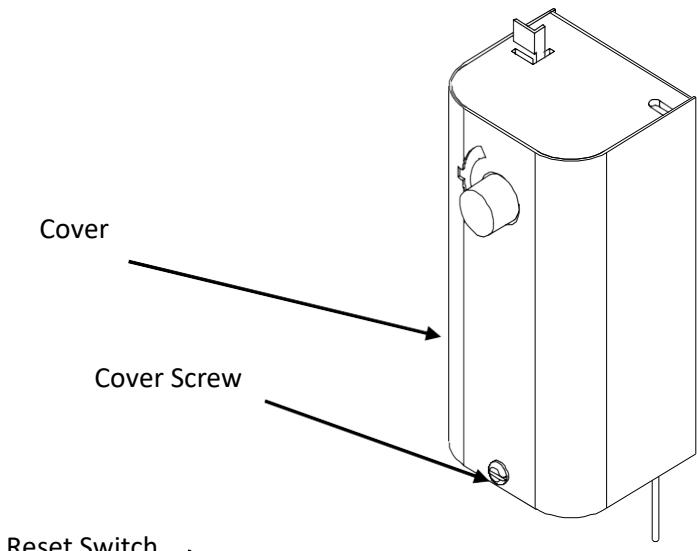
1. Disconnect power from unit.
2. Remove access cover.
3. Disconnect the four (4) 14-gauge wires or three (3) 14-gauge wires and a jumper, as required



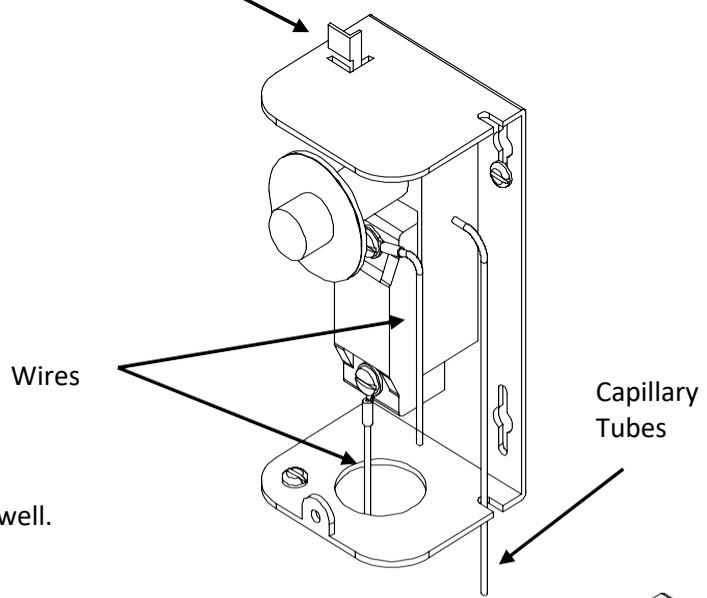
4. Disconnect the high-limit cut-off switch from the temperature controller by pulling the cut-off switch up and away from temperature controller.
5. Replace control and install new high limit switch by performing above steps in reverse order.

IMMERSION TEMPERATURE HIGH LIMIT CUT-OFF

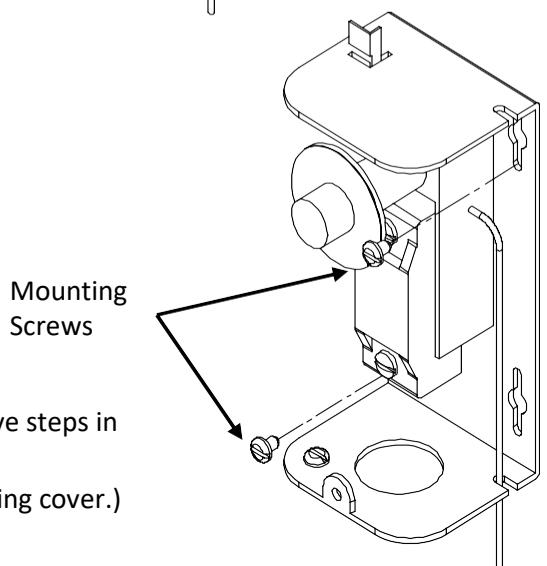
1. Disconnect power from unit.
2. Remove access cover.
3. Remove high limit cover screw and cover.



4. Disconnect the two (2) 14-gauge wires.



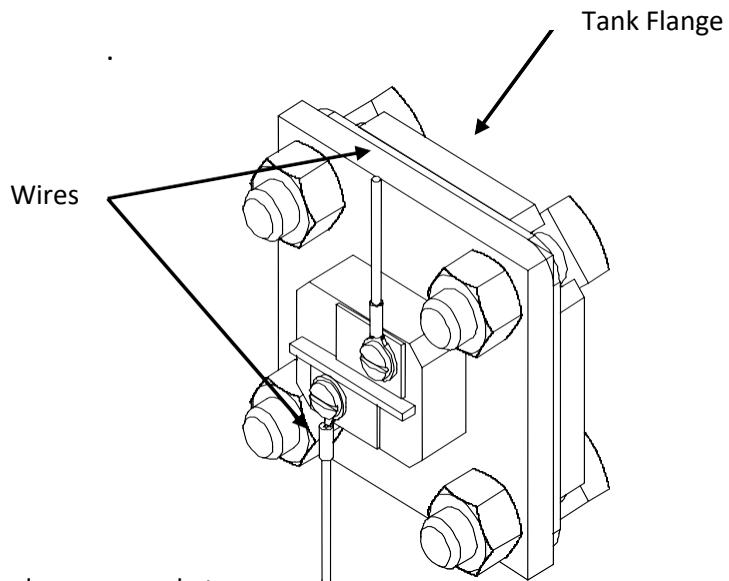
5. Remove capillary tube and bulb from thermowell.
6. Remove two (2) mounting screws.



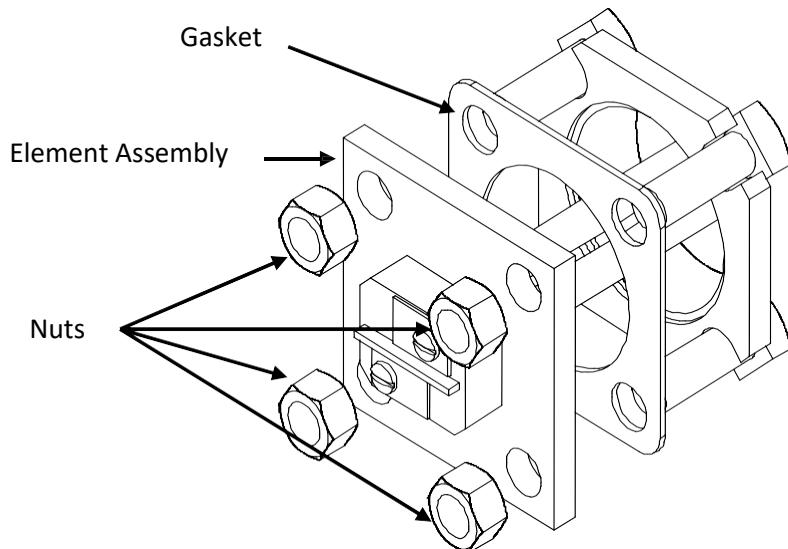
7. Remove control and install new high limit switch by performing above steps in reverse order.
(Note: Be sure to place capillary tube into slot in base prior to installing cover.)

HEATING ELEMENT

1. Disconnect power from unit.
2. Shut off incoming water supply.
3. Attach hose to drain connection.
4. Lift manual release lever on relief valve to let air into system or break union on outgoing water line.
5. Drain water from tank.
6. Disconnect the wires from the heating element terminals.

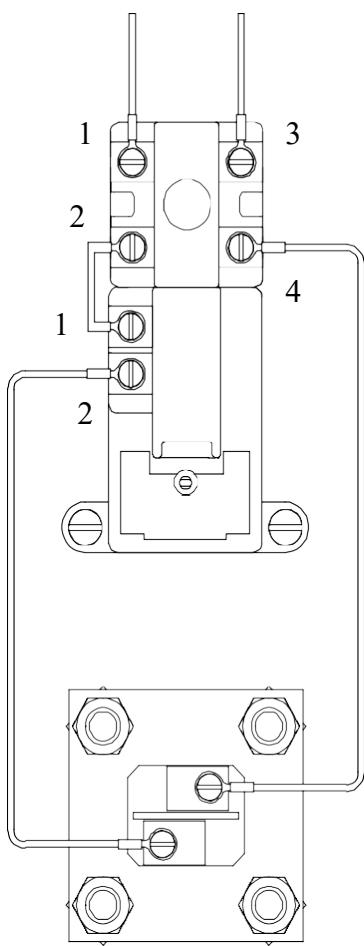


7. Remove the 3/8-16 nuts.
8. Withdraw element assembly and remove gasket.



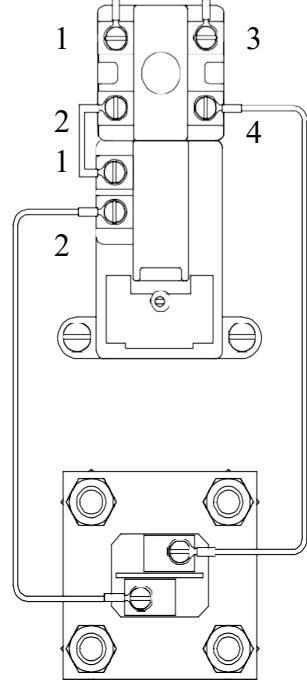
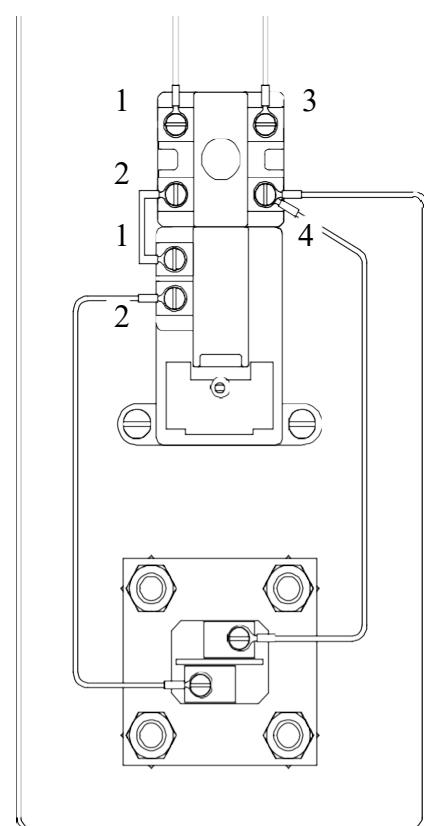
9. Install new gasket and insert new heating element.
10. Rewire element according to type of unit as shown below.
11. Fill tank and check around gasket for any leaks.

L1 L2



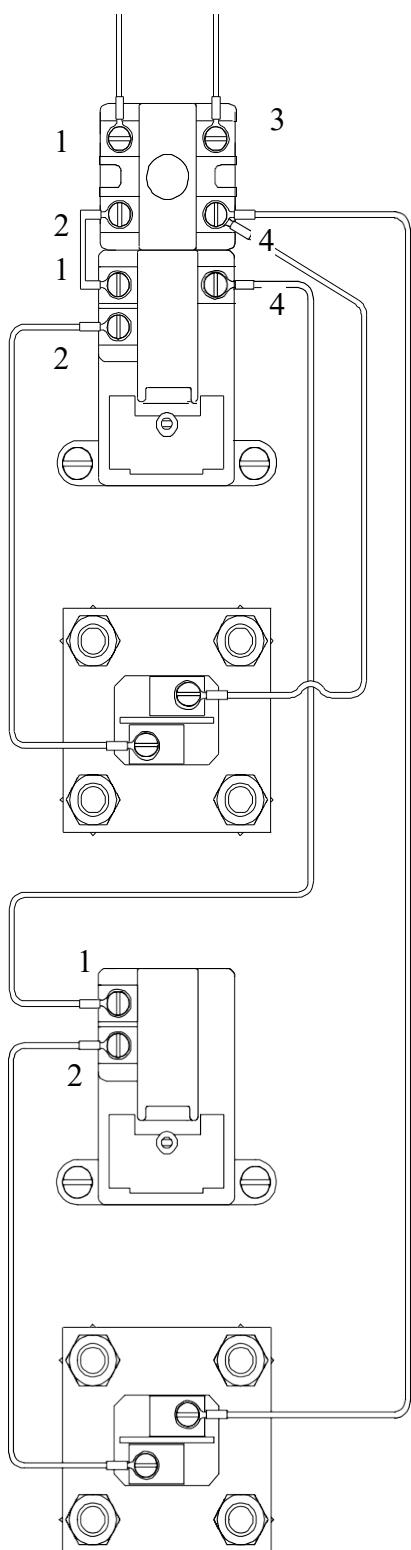
Single Element Operation

L1 L2 L3



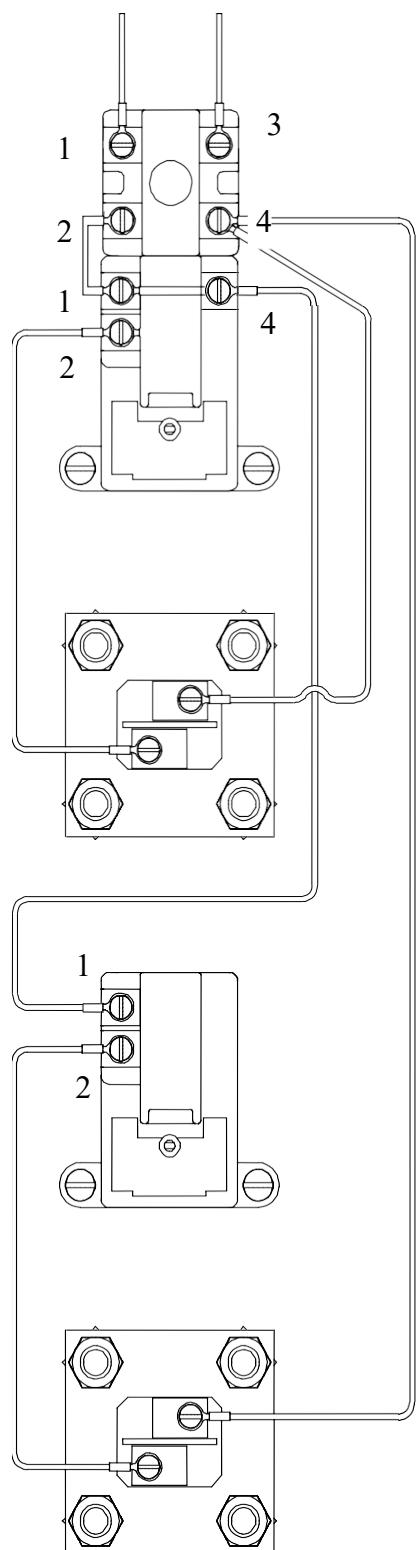
3 Ø Open Delta Wiring for Simultaneous Operation

L1 L2



Interlocked for Non-Simultaneous Operation

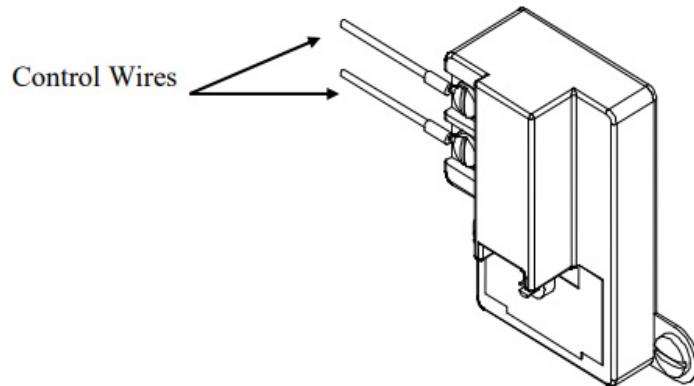
L1 L2



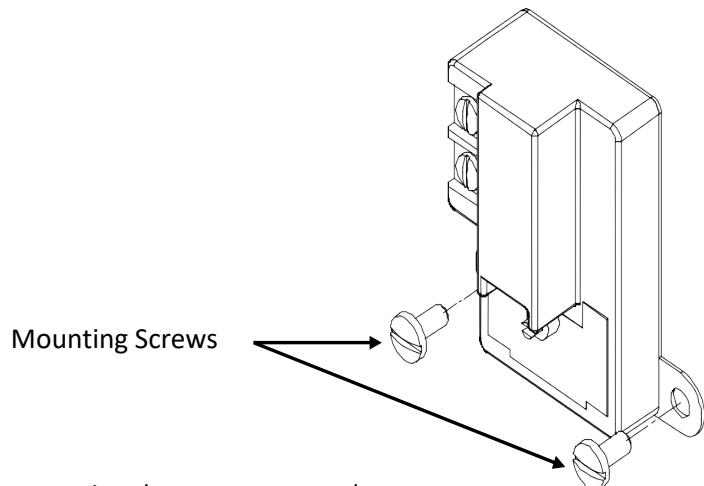
Non-Interlocked for Simultaneous Operation

SURFACE MOUNTED THERMOSTAT

1. Disconnect power from unit.
2. Remove access cover and locate thermostat.
3. Disconnect the two (2) or three (3) 14-gauge wires and jumpers, as required.



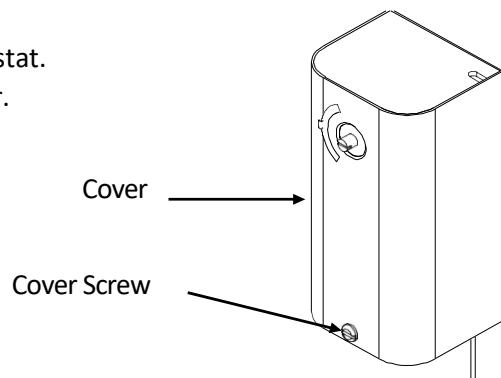
4. Remove two (2) mounting screws and disconnect from high limit cut-off, if required.



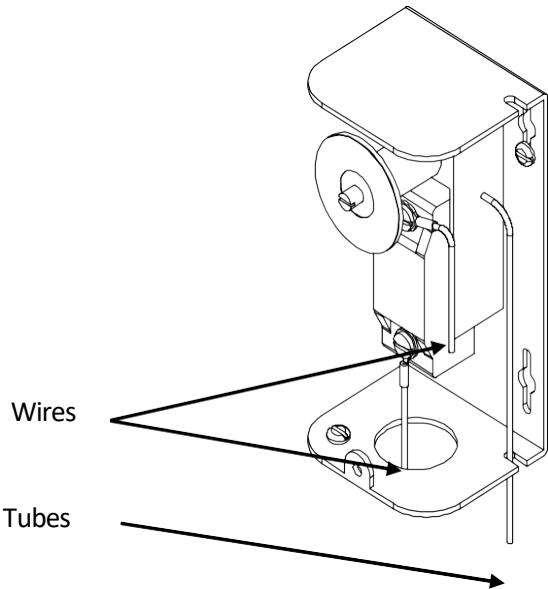
5. Replace thermostat using the reverse procedure.

IMMERSION THERMOSTAT

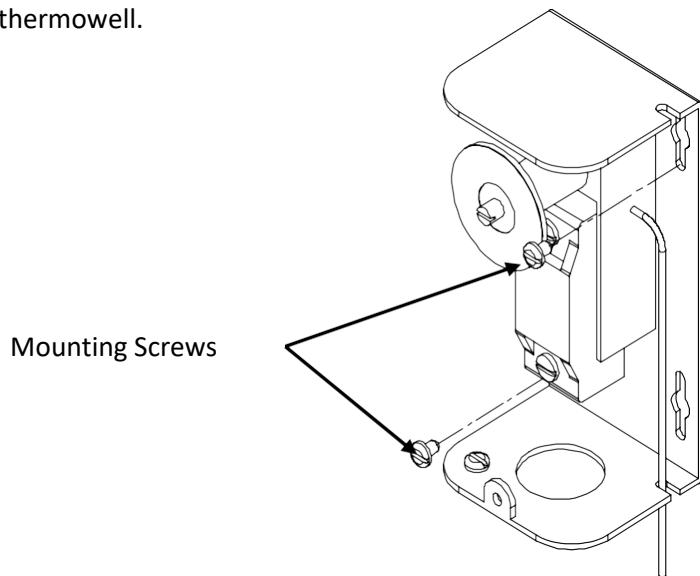
1. Disconnect power from unit.
2. Remove access cover and locate thermostat.
3. Remove high limit cover screw and cover.



4. Disconnect the two (2) or three (3) 14-gauge wires, as required.



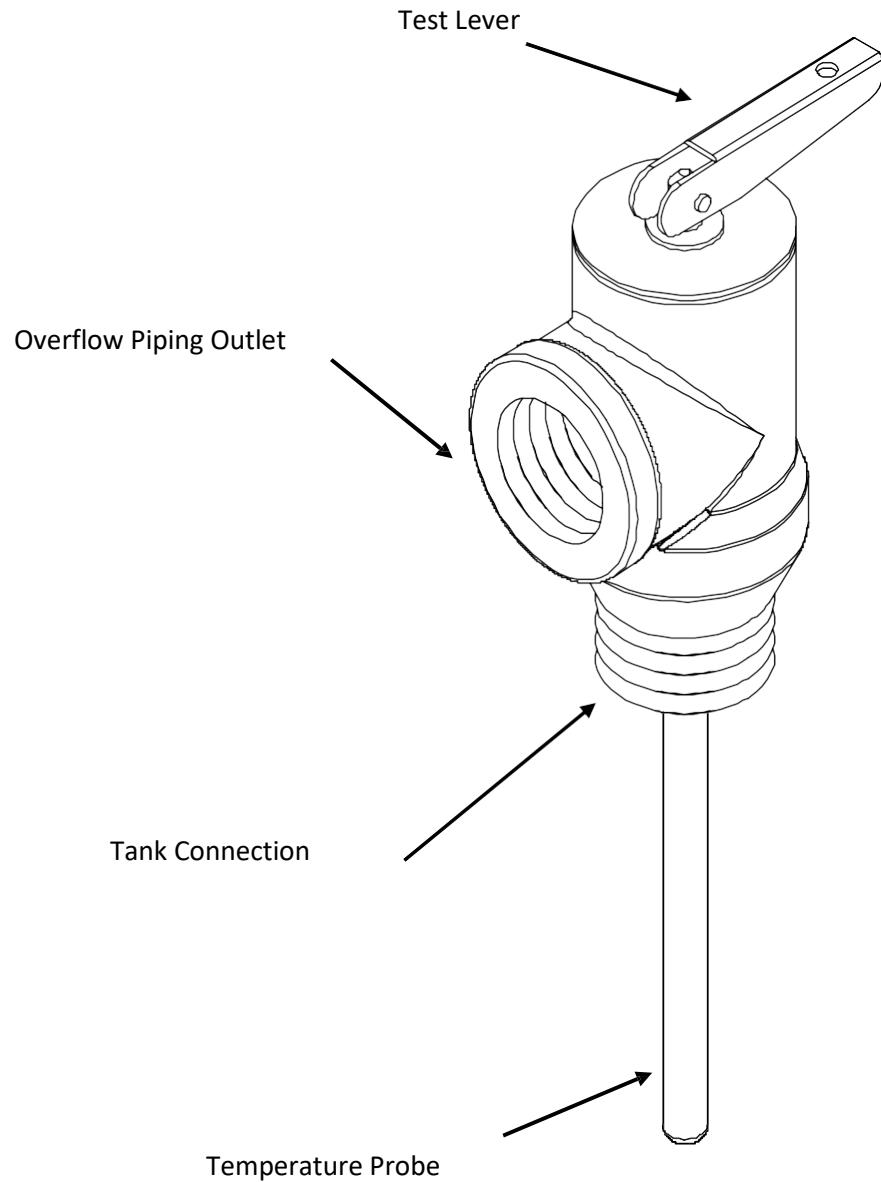
5. Remove capillary tube and bulb from thermowell.
6. Remove two (2) mounting screws.



7. Replace thermostat using reverse procedure. (Note: Be sure to place capillary tube into slot in base prior to installing cover.)

RELIEF VALVE

1. Disconnect power from unit.
2. Shut off incoming water supply.
3. Lift test lever on relief valve to relieve pressure in tank.
4. Disconnect overflow piping.
5. Unscrew relief valve, remove assembly and replace with new one.
6. Connect overflow piping.
7. Turn on incoming water supply and check for leaks.
8. Turn the safety switch to ON position.



SECTION VI – MISCELLANEOUS CHARTS AND FORMULAS

ELEMENT CHART

Element Part #	Power (Watts)					Immersion Length	Element Resistance (Ohms)
	120V	208V	240V	277V	480V		
CH-FO-358	----	3500	----	----	----	11 3/8"	12.36
CH-FO-408	----	4000	----	----	----	11 3/8"	10.82
CH-FO-508	----	5000	----	----	----	13 1/4"	8.65
CH-FO-608	2000	6000	----	----	----	13 3/8"	7.21
CH-FO-304	----	----	3000	4000	----	9 3/4"	19.20
CH-FO-354	----	2500	3500	----	----	9 3/4"	16.46
CH-FO-404	----	3000	4000	----	----	11 1/2"	14.40
CH-FO-454	----	----	4500	----	----	11 1/2"	12.80
CH-FO-504	----	----	5000	----	----	11 1/2"	11.52
CH-FO-604	1500	4500	6000	----	----	13 1/2"	9.60
TGB-1203-480	----	----	----	----	2000	7 5/8"	83.23
TGB-1353-480	----	500	----	1000	3500	12 1/2"	47.56
TGB-2257L	2500	----	----	----	----	9 5/8"	5.76
TGB-1207-240	500	1500	2000	2500	----	13 3/8"	28.80
TGB-1303-480	----	----	990	3000	----	10 1/2"	55.49
TGB-1403-480	----	----	1000	1350	4000	13 5/8"	41.62
TGB-2257-240	----	2000	2500	3500	----	10 5/8"	23.04
TGB-2257-480	----	----	----	----	2500	13 1/4"	66.59
TGB-2457-277	----	----	----	4500	----	13 1/8"	17.05
TGB-2457-480	----	----	----	1500	4500	13 1/4"	36.99
TGB-2503-480	----	1000	----	----	5000	9 3/4"	33.29
TGB-2507-277	----	----	----	5000	----	15"	15.35
TGB-2603-277	----	----	----	6000	----	15 1/2"	12.79
TGB-2603-480	----	----	1500	2000	6000	15 1/2"	27.74

* Red wattage indicates the stamped element rating

Note: Element part numbers, ratings, and lengths are subject to change without notice.

FORMULAS

Recovery

$$\text{GPH} \times \text{_____}^{\circ}\text{F} \Delta T \times 0.00244 = \text{kW}$$

$$\text{kW} \times 410 \div \text{GPH} = \text{_____}^{\circ}\text{F} \Delta T$$

$$\text{kW} \times 410 \div \text{_____}^{\circ}\text{F} \Delta T = \text{GPH}$$

Note: 1 kW will heat 4.1 GPH at a 100 $^{\circ}\text{F} \Delta T$

Electrical

$$\text{kW} \times 1000 \div 1.73 = \text{Amps } 3\Phi$$

Volts

$$\text{kW} \times 1000 = \text{Amps } 1\Phi$$

Volts

Metric Conversion

$$\text{Liters} \times 0.2641 = \text{Gallons}$$

$$\text{Gallons} \times 3.79 = \text{Liters}$$

$$\text{Gallons} \times 0.003785 = \text{m}^3$$

$$\text{m}^3 \times 264.2 = \text{Gallons}$$

$$1^{\circ}\text{C} \Delta T = 1.8^{\circ}\text{F} \Delta T$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$$

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 0.556$$

$$\text{psi} \times 0.06896 = \text{Bar}$$

$$\text{Bar} \times 14.5 = \text{psi}$$

$$\text{psi} \times 6.86 = \text{kPa}$$

$$\text{kPa} \times 0.1456 = \text{psi}$$

$$\text{Lbs} \times 0.4536 = \text{Kg}$$

$$\text{Kg} \times 2.2 = \text{Lbs}$$

$$\text{Watts/Sq.Cm.} \times 6.4 = \text{Watts/Sq.In.}$$

$$\text{Watts/Sq.In.} \times 0.155 = \text{Watts/Sq.Cm.}$$

TORQUE VALUES

BOLT SIZE	18-8 S/S IN.-LBS.	BRASS IN.-LBS.	SILICON BRONZE IN.-LBS.	ALUMINUM 2024-T4 IN.- LBS.	316 S/S IN.-LBS.	MONEL IN.-LBS.
4-40	5.2	4.3	4.8	2.9	5.5	5.3
4-48	6.6	5.4	6.1	3.6	6.9	6.7
5-40	7.7	6.3	7.1	4.2	8.1	7.8
5-44	9.4	7.7	8.7	5.1	9.8	9.6
6-32	9.6	7.9	8.9	5.3	10.1	9.8
6-40	12.1	9.9	11.2	6.6	12.7	12.3
8-32	19.8	16.2	18.4	10.8	20.7	20.2
8-36	22.0	18.0	20.4	12.0	23.0	22.4
10-24	22.8	18.6	21.2	13.8	23.8	25.9
10-32	31.7	25.9	29.3	19.2	33.1	34.9
1/4-20	75.2	61.5	68.8	45.6	78.8	85.3
1/4-28	94.0	77.0	87.0	57.0	99.0	106.0
5/16-18	132	107	123	80	138	149
5/16-24	142	116	131	86	147	160
3/8-16	236	192	219	143	247	266
3/8-24	259	212	240	157	271	294
7/16-14	376	317	349	228	393	427
7/16-20	400	327	371	242	418	451
1/2-13	517	422	480	313	542	584
1/2-20	541	443	502	328	565	613
9/16-12	682	558	632	413	713	774
9/16-18	752	615	697	456	787	855
5/8-11	1110	907	1030	715	1160	1330
5/8-18	1244	1016	1154	798	1301	1482
3/4-10	1530	1249	1416	980	1582	1832
3/4-16	1490	1220	1382	958	1558	1790
7/8-9	2328	1905	2140	1495	2430	2775
7/8-14	2318	1895	2130	1490	2420	2755
1-8	3440	2815	3185	2205	3595	4130
1-14	3110	2545	2885	1995	3250	3730

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