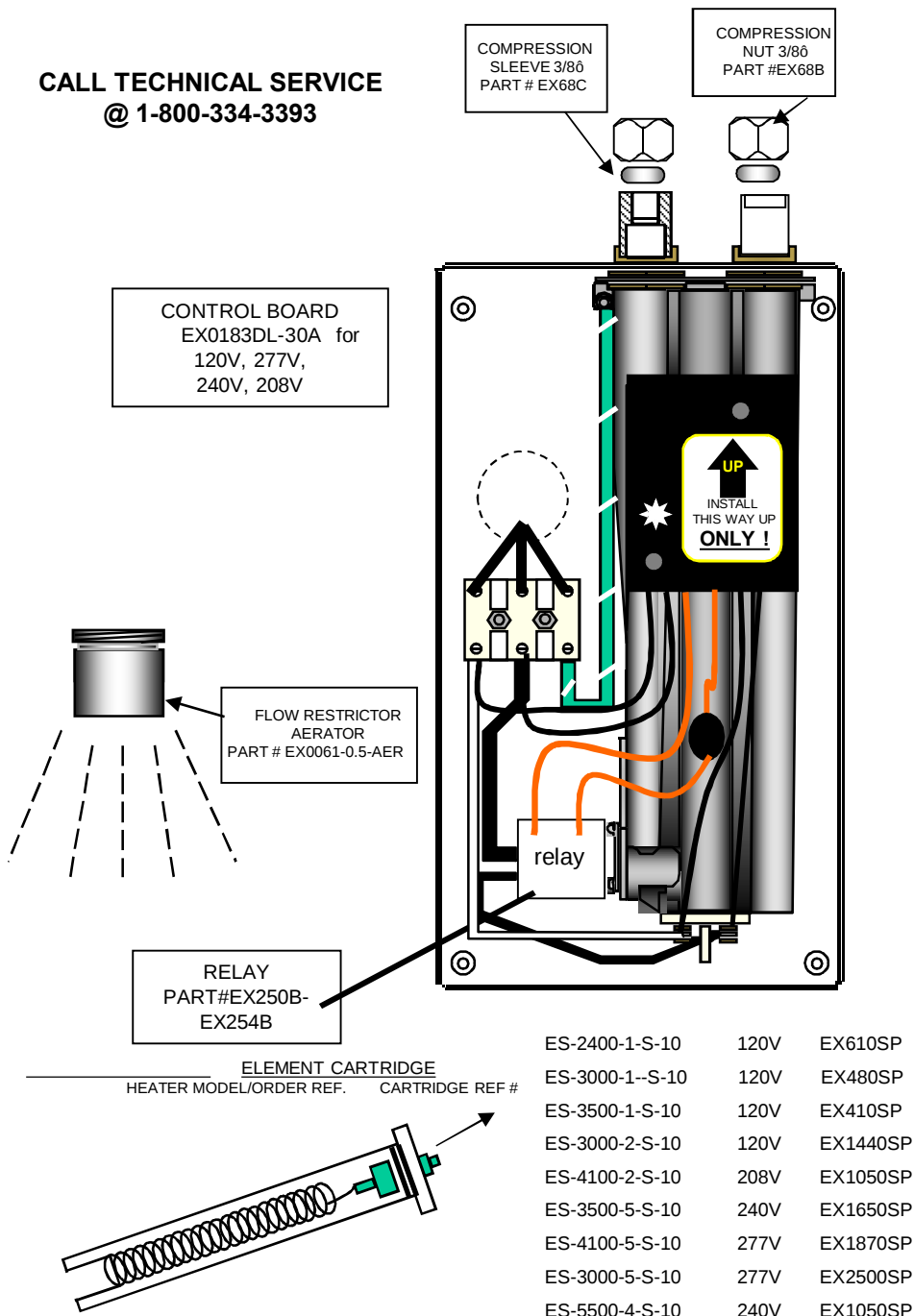


REPLACEMENT PARTS FOR Single Point® MODELS

**CALL TECHNICAL SERVICE
@ 1-800-334-3393**

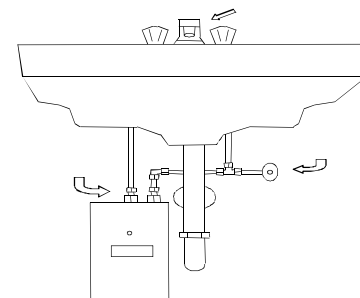


ELECTRIC INSTANTANEOUS TANKLESS WATER HEATER INSTALLATION GUIDE AND OWNERS MANUAL

Single Point®

MODELS COVERED:

ES-2400-1-S-10	ES-3000-1-S-10
ES-3000-2-S-10	ES-3000-5-S-10
ES-3500-1-S-10	ES-3500-4-S-10
ES-4100-2-S-10	ES-4100-5-S-10
ES-5500-4-S-10	



WARNING

BEFORE ATTEMPTING INSTALLATION OF THIS UNIT OR MAKING ANY ADJUSTMENTS TO THE UNIT, BE SURE CIRCUIT BREAKER IS OFF TO PREVENT DANGER OF SERIOUS ELECTRIC SHOCK. FAILURE TO GROUND THE SYSTEM MAY RESULT IN SERIOUS INJURY OR DEATH

INSTALLER/ CONSUMER RESPONSIBILITIES

READ THIS MANUAL CAREFULLY BEFORE ATTEMPTING TO INSTALL OR OPERATE THIS WATER HEATING UNIT. IF THE SAFETY RULES ARE NOT FOLLOWED, THE UNIT WILL NOT OPERATE PROPERLY AND COULD CAUSE DEATH, SERIOUS BODILY INJURY AND/OR PROPERTY DAMAGE. WARRANTY OF THIS UNIT WILL DEPEND ON PROPER INSTALLATION AND OPERATION. THE WARRANTY WILL BE VOID IF THE DESIGN HAS BEEN ALTERED IN ANY WAY WHATSOEVER. THE MANUFACTURER OF THIS UNIT WILL NOT BE LIABLE FOR ANY DAMAGES BECAUSE OF FAILURE TO COMPLY WITH THE INSTALLATION AND OPERATING INSTRUCTIONS OUTLINED ON THE FOLLOWING PAGES.

THE INSTALLATION MUST CONFORM WITH THE INSTRUCTIONS IN THIS MANUAL AND THE LOCAL CODES, OR IN THE ABSENCE OF LOCAL CODES, WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE NATIONAL ELECTRICAL CODE IS AVAILABLE FROM WRITING UNDERWRITERS LABORATORIES, 333 PFINGSTEN RD., NORTHBROOK, IL. 60062

IF ASSISTANCE IS REQUIRED OR ANY QUESTIONS RELATING TO THE INSTALLATION OR PERFORMANCE OF THIS UNIT ARISE, PLEASE CONTACT

TECHNICAL SERVICE TOLL FREE: 1-800-334-3393.

HAVE THE INFORMATION LISTED BELOW BEFORE CALLING:

MODEL NO. _____ SERIAL NO. _____ INSTALLATION DATE _____

PLUMBING CONNECTIONS

NOTE:
**ALL PLUMBING AND MOUNTING MUST BE COMPLETED
BEFORE PROCEEDING WITH THE
ELECTRICAL HOOK-UP.**

1) The unit is supplied with 3/8" compression fittings. USE THESE: DO NOT USE THREADED PIPE FITTINGS. DO NOT USE PIPE DOPE OR TEFLON TAPE ON THIS INSTALLATION. Ensure the inlet filter supplied with this unit is in place.

2) Ensure that the pipes are correctly aligned with the inlet and outlet bosses to avoid excessive stress on the heater body molding of the unit.

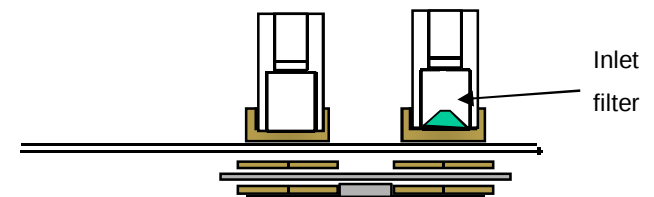
NOTE: Run water through the supply pipe to remove all debris from the pipe before connecting to the unit. Failure to do so could damage the flow switch.

3) Install isolating valves (shut-off type), or equivalent on both inlet and outlet pipes. This allows the unit to be isolated for maintenance purposes. (Fig. 2)

4) When all plumbing is complete, inspect the system for water leaks at all plumbing connections. If a water leak is present take corrective action. If a water leak is at the compression fitting, slowly tighten compression nut until the water leaks ceases.

Fully open both inlet and outlet shut-off valves.

Run all hot water outlets fed by this heater one at a time until the water flow is continuous and free from gulping and all visible air pockets.



**TEST THE INSTALLATION FOR LEAKS BEFORE
CONNECTING THE ELECTRICAL SUPPLY.**

GENERAL

This Single Point water heating unit is specifically designed to be installed under sink feeding a SINGLE faucet. This unit is designed to take in cold water ONLY and heat it to temperatures suitable for hand washing. To obtain optimum performance and energy savings, the unit should be located as near as possible to the point of use. This unit incorporates a constant flow device and should only be used with the faucet aerator supplied. The unit is supplied with compression rings and nuts suitable for direct coupling to 3/8" copper or plastic piping. Do not use additional screwed fittings or pipe dope. The use of such materials will void the warranty. **DO NOT SOLDER PIPES WHILE THE UNIT IS INSTALLED** (serious damage to the electronic flow switch will result).

THIS HEATER MUST HAVE ITS OWN INDEPENDENT CIRCUIT, USING A CORRECTLY RATED CIRCUIT BREAKER AND WIRES SUITABLE FOR AT LEAST 75 °C OPERATION.

INSTALLING THE UNIT

1) The unit must be mounted underneath a sink in a VERTICAL position with the inlet and the outlet at the TOP. Mounting in any way other than this WILL cause element burn out and possibly damage the unit further.

Do not install this unit above the faucet as the siphoning effect will drain the heater which can cause element burn out and damage the unit.

2) The cold water **inlet is on the right hand side** and the **hot water outlet is on the left hand side**. Under **NO** circumstances can these be reversed.

3) Leave a **minimum of 8"** below the unit for easy replacement of the element.

4) This unit should be fixed to the wall using the four mounting holes at each corner of the backplate.

WARNING
UNIT MUST BE PROPERLY GROUNDED TO THE GND LOCATION ON THE TERMINAL BLOCK. FAILURE TO GROUND THE SYSTEM MAY RESULT IN SERIOUS INJURY OR DEATH.

ELECTRICAL CONNECTIONS

WARNING
BEFORE BEGINNING ANY WORK ON THE ELECTRICAL INSTALLATION BE SURE THAT THE CIRCUIT BREAKER IS IN THE "OFF" POSITION TO AVOID ANY DANGER OF ELECTRICAL SHOCK.

This water heating must have its own independent circuit using insulated, UL listed, 3 wire cable of the appropriate size suitable for use up to 75°C protected by the correctly rated circuit breaker.

RATINGS OF SINGLE POINT MODELS

MODEL	VOLTS*	OUTPUT kW	CURRENT AMPS	TEMPERATURE RISE °F		
				0.5 gpm	0.6 gpm	0.7 gpm
ES-2400-1-S-10	120	2.4	20	33	-	-
ES-3000-1-S-10	120	3.0	25	41	34	29
ES-3500-1-S-10	120	3.5	29.2	48	40	34
ES-3000-2-S-10	208	3.0	14.4	41	34	29
ES-4100-2-S-10	208	4.1	19.7	56	47	40
ES-3000-5-S-10	277	3.0	10.8	41	34	29
ES-4100-5-S-10	277	4.1	14.8	56	47	40
ES-3500-4-S-10	240	3.5	14.6	48	40	34
ES-5500-4-S-10	240	5.5	22	75	63	54

* Units must be installed at rated voltage ONLY

THIS HEATER MUST BE INSTALLED ONLY IN A VERTICAL POSITION
WITH THE INLET AND OUTLET AT THE TOP

WARNING

Unit must be properly grounded to the GND location on the terminal block.
Failure to ground the system may result in serious injury or loss of life

Wire entry into the unit should be made through the lower right hand corner of the backplate via one of the two knockout holes provided.

The mains wires should be connected to the slots in the terminal block marked L1 and L2 (N). The ground lead **must** be connected to the slot marked Failure to ground the system may result in death or serious injury.

WARNING

This water heater must not be switched on if there is a possibility that the water in the heater is frozen

