INFRARED HEATER





Series ETS 80/100 Infrared Heater

Two-Stage



STEP 1 BEFORE INSTALLING

WARNING

These instructions, the layout drawing, local codes and ordinances, and applicable standards such as to gas piping and electrical wiring comprise the basic information needed to complete the installation, and must be thoroughly understood along with general building codes before proceeding. This guide is not intended to replace the Instruction Manual.

Only personnel who have been trained and understand all applicable codes should undertake the installation. SRP Representatives are Factory Certified in the service and application of this equipment and can be called on for helpful suggestions about installation.

INSTALLATION AND GAS CODES

Heaters must be installed only for use with the type of gas appearing on the rating plate, and the installation must conform to the National Fuel Gas Code, ANSI Z223.1/NFPA 54 in the USA and CSA B149.1 and B149.2 Installation Codes in Canada.

This heater is approved for outdoor installation.

General Specifications

Configurations

Gas Supply

Inlet Pressure		Natural Gas	Propane Gas	Natural gas		ETS 80	ETS100
	Minimum:	5.0" W.C.	11.5" W.C.	Heat Input	BTU/hr	80,000	100,000
	Maximum:	14.0" W.C	14.0" W.C.	Partial Heat Input	BTU/hr	50,000	62,000
Manifold Pressure		Natural Gas	Propane Gas	·		,	,
ETS 80, ETS 100	High Rate:	3.3" W.C.	10.2" W.C.				
	Low Rate:	1.5" W.C.	4.2" W.C.	Propane		ETS 80	ETS100
Inlet Connection		Natural Gas	Propane Gas	Heat Input	BTU/hr	78,000	92,000
		½" Female NPT	½" Female NPT	Partial Heat Input	BTU/hr	49,000	58,000

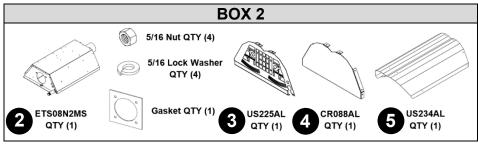
Electrical Supply

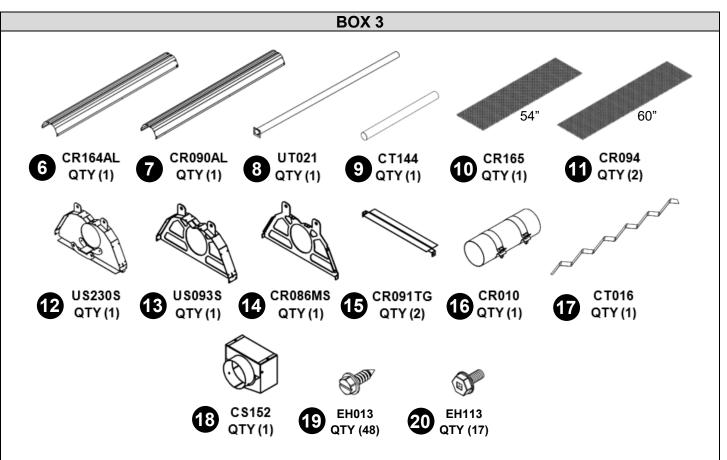
120 VAC 60Hz. 1Amp: 36" Cord with grounded 3 prong plug.

STEP 2 UNPACKING

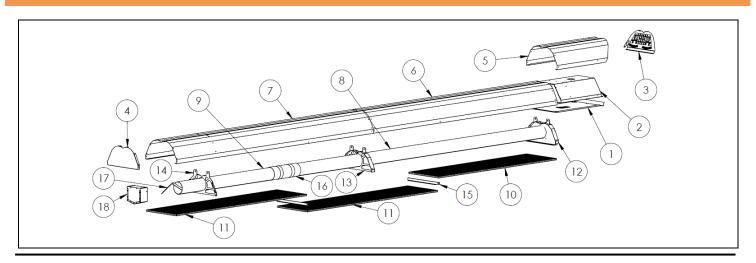
Note: A box contents label can be found on each box.







STEP 3 ASSEMBLY OVERVIEW



STEP 4 INSTALLATION

Dimensional Chart

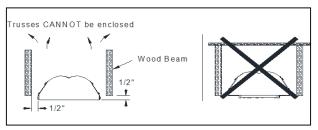
ETS 80/100 Note: All dimensions are in inches. 84.00 71.75

Heater Mounting

The heater can be mounted in a variety of ways, using a combination of chains or mounting brackets.

Note: Minimum mounting height is 7' in Canada and 8' in the US.

This heater can be installed between wood beams with minimum distances as shown:



Note: Surfaces between joists or flush with the heater must not exceed 50°C (90°F) above ambient temperature

Installation Sequence

Note: See manual for detailed installation sequence.

- 1. Begin by installing hangers on the flanged tube.
- 2. Fasten reflectors (and canopies) onto hangers.
- 3. Install baffle.
- 4. Install vent terminal on tube.
- 5. Install the burner head onto the flanged tube.
- 6. Install burner head reflector over burner head.
- 7. Install grille and service cover.
- Install 54" deco grille first and then the 60" deco grilles. Deco grille supports in-between each deco grille.
- 9. Install end cap.

Lighting & Shutdown Instructions

Lighting

- Open manual gas supply valve (ensure gas supply lines have been purged).
- 2. Turn on the switch.
- 3. The blower motor will energize.
- When the motor approaches nominal running RPM, the air-proving switch closes and activates the ignition module.
- The ignition module, after a pre-purge period of approximately 30 seconds, energizes the igniter. Additionally, the gas valve is energized for this ignition trial period of 15 seconds.
- If a flame is detected, the ignition sensing rod "reads" a rectification signal and the gas valve remains open. The sparking stops when the flame signal is established.
- 7. If no flame is detected, the gas valve closes and a 30 sec inter-purge period begins. After the inter-purge, the module repeats the trial for ignition period. If flame is still not established, a third and final interpurge followed by a final ignition trial cycle begins. After three trials, the module will lockout for a period of approximately 1 hour or until reset. (Reset is accomplished by removing power from the module for at least 5 seconds.) After this 1-hour period, the module re-attempts the full ignition sequence.

Shut Down

- 1. Turn off power to electronic control.
- 2. For longer periods of shut down, also close manual gas supply valve.