



Compact Radiant Gas Heaters

SIR SERIES



SunStar ECLIPSE™

The Radiant Heater That Eclipses All Others



- Available in BTU sizes from 25,000 to 45,000 BTU
- Compact size - overall length is 9'2" for ease of installation.
- Efficiencies range up to 84.5%.
- Models for both natural and propane gas.
- Installation as low as 8' above floor.
- Optional deflector kit for reduced clearances below.
- CSA Design Certified.
- 5-year limited warranty on combustion chamber.

Warm, comfortable heating for residential garages typically controlled with a thermostat

QUICK SPECS

Compact Radiant Gas Heater

HEATING CAPACITY
25,000 To 45,000 BTU

MODELS
Single Or 2-Stage Operation

MOUNTING
Installation Can Be
As Low As 8 Ft Above Floor

SAFETY SHUT-OFF
100% Gas Safety
Shut-off Control

FUEL
Natural Gas Or Propane

ELECTRICAL
120VAC, 60Hz

IGNITION
Direct Spark

The Economical Alternative For Those Hard-To-Heat Spaces

- Residential Garages ● Restaurants ● Vestibules
- Entryways ● Greenhouses ● Enclosed Patios
- Solariums ● Farm Buildings ● Clubhouses
- Small Businesses ● Auto Garages ● Workshops

Compact Infrared Gas Tube Heater

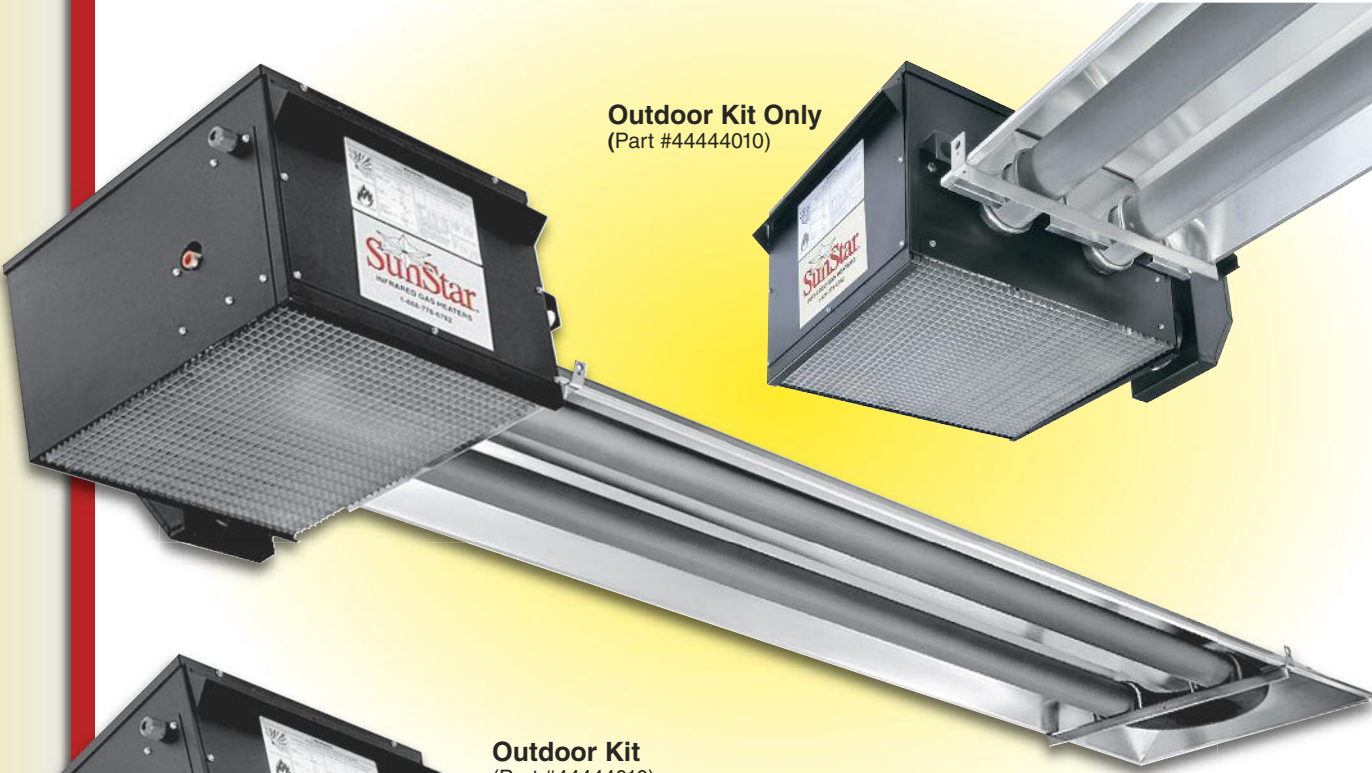
Utilizing heavy-duty, Tough Guy heat exchanger material, the SunStar Eclipse infrared tube heater provides an efficient source of radiant heat for a wide variety of hard-to-heat spaces.

The Power Of Radiant Heat


Using the power of radiant heat, the new SunStar Eclipse infrared tube heater puts the warmth of the sun inside your building, and it can reduce your fuel bills up to 50%! Its radiant heat warms people, concrete floors and objects. The heat is absorbed and re-radiated to warm the entire area through convection. This, combined with the fact that it is powered by gas, adds up to one unbeatable combination. So, consider a very warm and efficient alternative to competitive heaters just blowing hot air. Consider the new SunStar Eclipse infrared tube heater.

Eclipse Emitter Guard & Outdoor Kits

When used for outdoor installations, the Eclipse's new Outdoor Kit helps shield the burner assembly during periods of rain and windy conditions. The new Emitter Guard Kit can be used in conjunction with an Outdoor Kit and covers the bottom, exposed area of the heater for cosmetic purposes – ideal for commercial patios, outdoor restaurants or other areas where appearance may be a concern.



Outdoor Kit Only
(Part #44444010)



Outdoor Kit
(Part #44444010)
With Emitter Guard Kit
(Part #43485010)

**Emitter Guard Kit Improves The Aesthetics
And Diffuses The Radiant Energy
Below The Heater.**

The use of the egg crate decorative grille focuses the radiant pattern of the heater into the area to be heated and reduces the heat diffusion by up to 30%

TECHNICAL FEATURES

Vacuum System

Products of combustion are pulled through the combustion chamber for greater safety ... virtually eliminates the possibility of combustion gases leaking into the heated space.

Solid State Ignition System

Reliable electronic direct spark ignition system with 100% gas safety shut-off control and 30-second prepurge ... safety and efficiency assurance.

U-Tube Design

Provides uniform emitter tube temperatures and energy distribution on the floor ... unlike straight tube heaters which are always hotter at the burner end than at the exhaust end.

Warranty

5-year limited warranty on combustion chamber and 1 year on controls.

Other Features

Heavy-duty combustion chamber, aluminum reflectors with 97% reflectivity rating, diaphragm safety switch for proof of venting, and system indicator lights.

SunStar SIR Series



MODELS	SINGLE STAGE BTU/HR INPUT	TWO STAGE		TOTAL EMITTER TUBE LENGTH 15 FT
		BTU/HR HIGH INPUT	BTU/HR LOW INPUT	
SIR25	25,000	25,000	NA	●
SIR35	35,000	35,000	25,000	●
SIR45	45,000	45,000	31,500	●

CONTROL SUFFIX	TYPE OF GAS	CONTROL OPTION DESCRIPTION
N5 / L5	Natural / Propane	Single Stage Gas Valve - Single Stage Input
N7 / L7	Natural / Propane	Two Stage Gas Valve - Modulating Input - High/Low Fire

Indicate model number based on Btu/hr input (e.g. 45,000 Btu/hr), emitter length (e.g. 15 ft.), Control suffix (e.g. Natural Gas single stage input). Unit selection would be SIR45-15-N5.

GAS TYPE	BURNER PRESSURE	SUPPLY PRESSURE		VOLTAGE	AMPS	IGNITION TYPE	FLUE CONNECTION	OUTSIDE COMBUSTION AIR CONNECTION
		MIN	MAX					
NATURAL	3.5" W.C.	5" W.C.*	14" W.C.	120 VAC	2.6	DIRECT SPARK	4" ROUND	4" ROUND
PROPANE	10" W.C.	11" W.C.	14" W.C.	60 HZ				

For all installations higher than 2000 ft. above sea level, please consult the factory regarding derating of heaters



The Sunstar Eclipse is ideal for both smaller indoor, or outdoor covered patio restaurants



3-Position Switch Or Thermostat Control



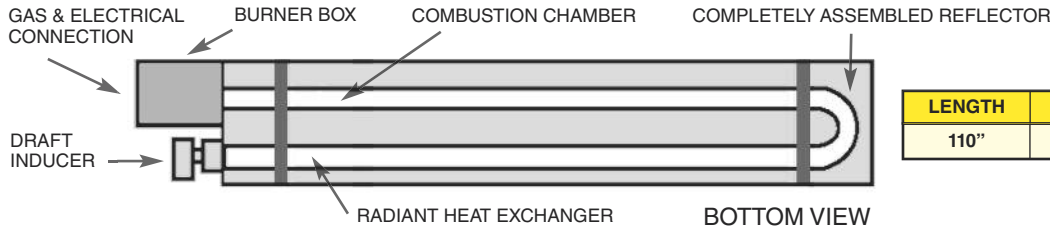
The SIR Eclipse can be controlled individually or in zones with the use of a thermostat. Two-stage control heaters can be controlled by a 3-position switch as well as a thermostat. The 3-position switch enables the owner to operate the heater at low fire on mild days and switch to full power on cold days.

For tough to heat outdoor patio applications, a two-stage control is recommended.

TECHNICAL DATA

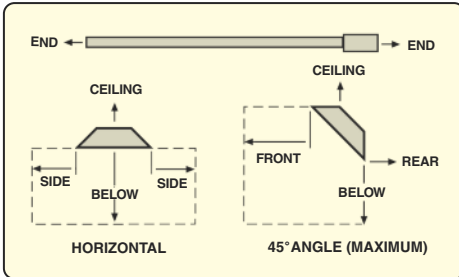


Dimensions



LENGTH	WIDTH	HEIGHT	WEIGHT
110"	18"	8"	74 lbs.

Minimum Clearance To Combustibles

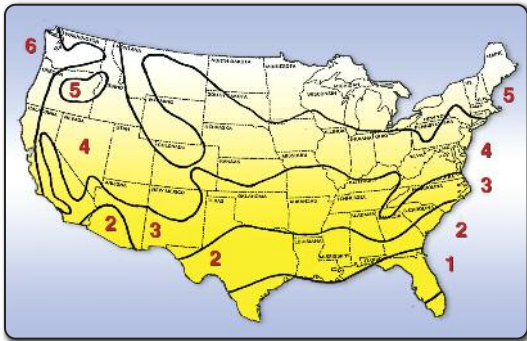


MODEL NO.	MOUNTING ANGLE	SIDE FRONT	SIDE REAR	CEILING	BELOW	ENDS
SIR25	0°	8"	8"	4"	41"*	12"
SIR25	45°	30"	4"	4"	41"*	12"
SIR35, 45	0°	12"	12"	4"	57"***	12"
SIR35, 45	45°	40"	4"	4"	57"***	12"

*33" with deflector **42" with deflector

Maintain the listed clearances below heater to vehicles parked underneath heater at all times

Model Selection Guidelines



ZONE	MODEL
1, 2	SIR25
3, 6	SIR35
4, 5	SIR45

Regional Heat Map For Residential Garages

Properly selected heaters will provide the most efficient operation for your installation. The models recommended are selected for 22' x 28' two-car or 26' x 32' three-car insulated garages or buildings. Select the model number corresponding to the geographic location in which the heater will be installed. Model size is determined by garage heat loss.

Please consult your SunStar distributor to determine the heat loss for your particular application.

Venting Requirements

In residential applications, heaters must be vented outside the building with a flue pipe. In commercial applications, heaters can be common vented, individually vented or indirect vented. A vented installation must be vented outside the building with a flue pipe. An indirect vented installation requires a minimum ventilation flow of 4 CFM per 1000 BTU/hr of total installed heater capacity on natural gas by either gravity or power ventilation (4.18 CFM per 1000 BTU/hr on propane).

Installation Requirements

Installation and service must be performed by a licensed contractor. The installation must conform to the manufacturer's Installation and Operating Instructions and local codes. In the absence of local codes, the installation must conform with the National Fuel Gas code, ANSI Z223.1 (latest edition also known as NFPA54) or GCA B149 (latest edition) installation codes.

For Your Safety

Operate SunStar Eclipse infrared heaters with proper care and observe all safety precautions. Carefully follow printed installation, operating and cleaning instructions furnished with the heater. Do not store gasoline or combustible products in the vicinity of the heater. Keep children, clothes and drapery away from the heater. Do not touch the heater or the tubes while the heater is in operation. Adequate ventilation must always be provided in accordance with codes.



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