

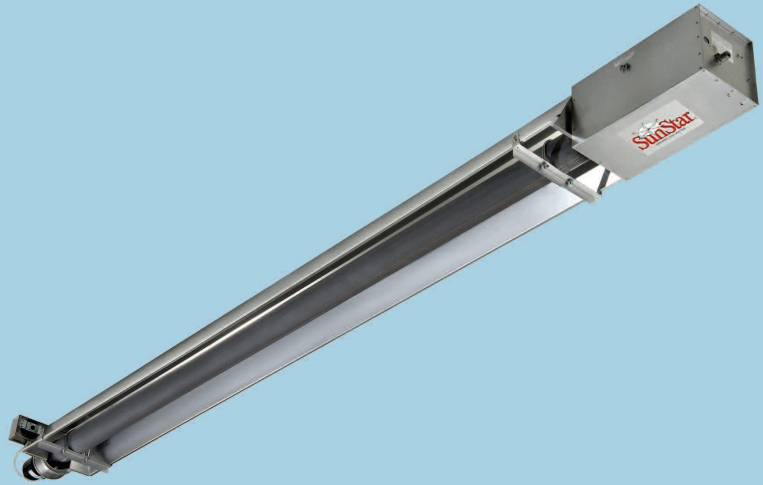
## THE ECONOMICAL ALTERNATIVE FOR HARD-TO-HEAT SPACES:

- Manufacturing Plants
- Warehouses
- Auto Dealerships
- Aircraft Hangars
- Loading Docks
- Weld Shops
- Fire Stations
- Gymnasiums
- Garages
- Machine Shops
- Tennis Courts
- Maintenance Shops
- Farm Buildings
- Truck Service Areas
- Auto Body Shops



**WARNING**

**Not For Residential Use**



Whether you need to heat your warehouse, garage, or other hard-to-heat spaces, the SunStar SIS/U Series infrared heaters provide both the fuel efficiency of radiant heat and the installation flexibility you need . . . and all at a comfortable price.

## SIS & SIU Series

**Pull Through (Negative Pressure)**

### INFRARED TUBE HEATER

SunStar infrared tube heaters are ideal for complete building heat or spot heating needs. The best applications are those where doors open and close frequently and in buildings where ceiling heights are above ten feet. The flexible SunStar infrared heating system can be designed to meet any commercial or industrial heating needs.

### HEAT LIKE THE SUN

SunStar infrared tube heaters heat like the sun by transferring radiant heat energy directly into the area to be heated. This energy is then absorbed by concrete floors, objects and people and is then re-radiated to warm the surrounding area. This creates a warm comfort zone at floor level, not at the ceiling.

### FUEL SAVINGS UP TO 50%

This extremely efficient method of heating can result in fuel savings of between 30% and 50% when compared to forced air convection heating. With the SunStar system, investment payback accrues not only from reduced energy costs, but from the reduced maintenance costs, too.



**CONVECTION HEAT**

Forced air convection heat works from the top down, heating the air first and stratifying from the ceiling downward. More heat is wasted in the upper area of the building.



**INFRARED HEAT**

Infrared heat works from the bottom up, warming people, floors and machines first. Comfortable heat is retained in the lower working areas of your building.

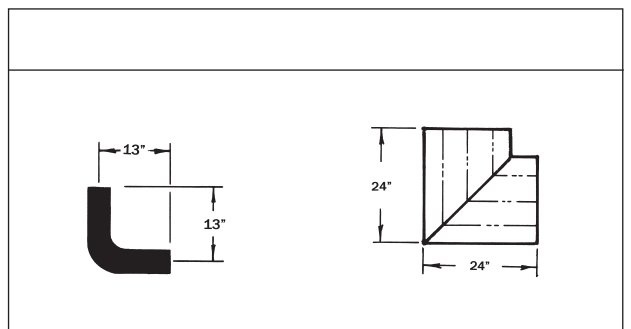
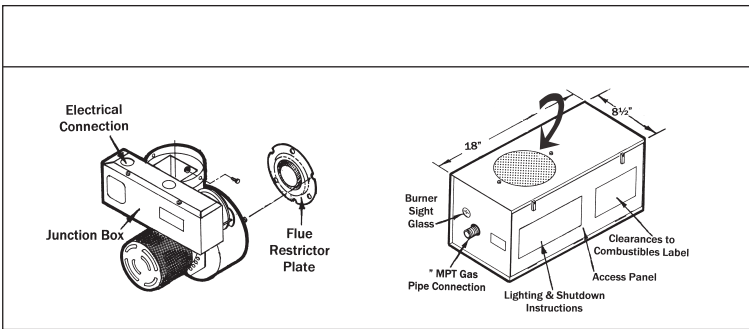
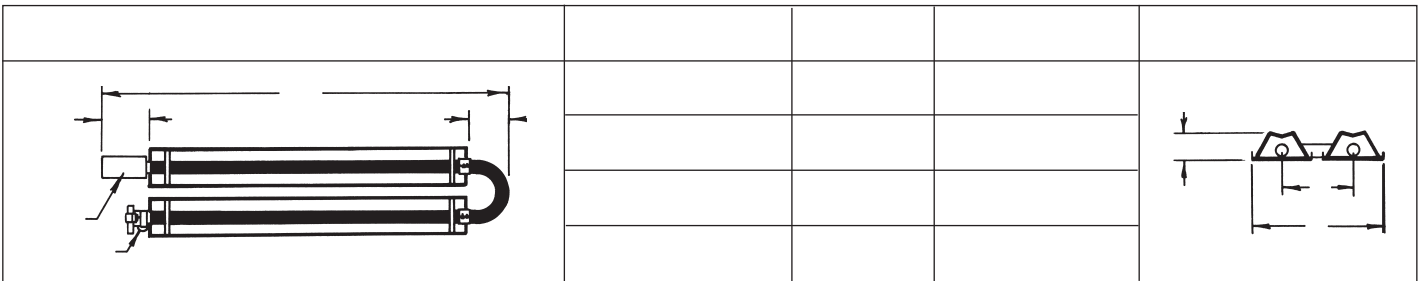
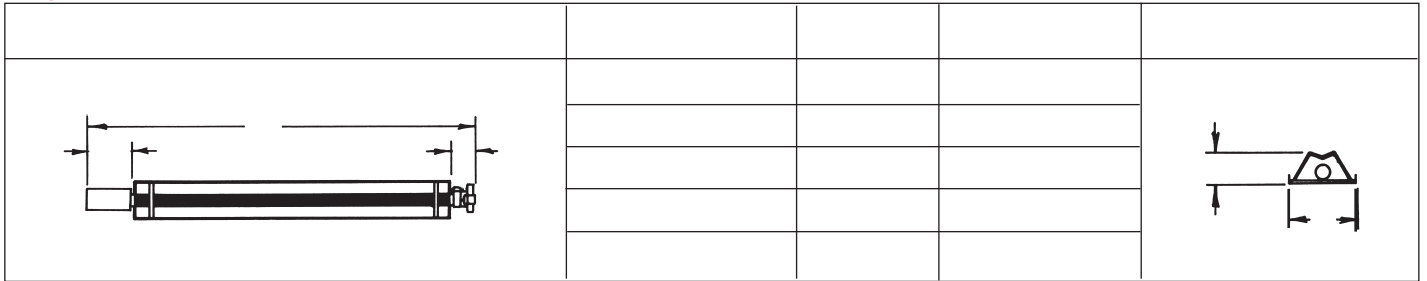


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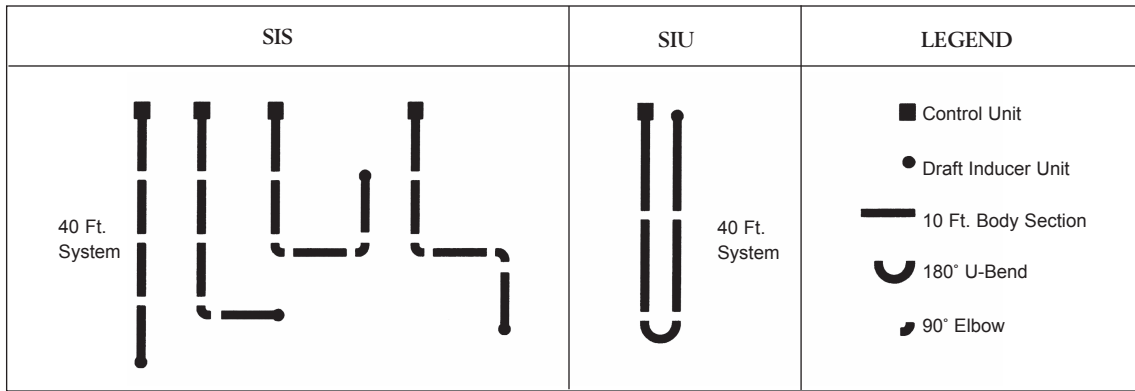
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## TYPICAL SIS/SIU SERIES LAYOUTS



Over 60 different layout configurations are available. 40 ft. system layout is shown. For complete layout possibilities, refer to Installation and Operation Instructions.

## MINIMUM RECOMMENDED MOUNTING HEIGHTS

MODEL	HEIGHT AT HORIZONTAL	HEIGHT AT 45° ANGLE	MODEL	HEIGHT AT HORIZONTAL	HEIGHT AT 45° ANGLE
SIS/U 50	11 Feet	10 Feet	SIS/U 125	14 Feet	13 Feet
SIS/U 75	13 Feet	12 Feet	SIS/U 150	15 Feet	14 Feet
SIS/U 100	14 Feet	13 Feet	SIS/U 175	16 Feet	15 Feet

This chart is intended as a guide only and heaters may be mounted at various heights and angles. Please consult your local SunStar Representative or Distributor for a detailed analysis of your particular infrared heating requirements.

NOTES: Since straight tubes are always hotter at the burner end than at the exhaust end, always observe the minimum recommended mounting heights shown on the specification sheet for greatest human comfort. Use SIU series instead of SIS series for spot heating applications.

## MINIMUM CLEARANCES TO COMBUSTIBLES

	MODEL NO.	SIDE	CEILING	BELOW	END	(45°) FRONT	(45°) REAR
	SIS/U 50	24"	6"	40"	15"	48"	12"
SIS/U 75	24"	6"	60"	15"	52"	12"	
SIS/U 100	28"	6"	76"	15"	58"	12"	
SIS/U 125	32"	6"	82"	20"	66"	12"	
SIS/U 150	36"	6"	87"	20"	70"	12"	
SIS/U 175	42"	6"	93"	20"	75"	12"	

When used indirect vented, clearance to ceiling from top of exhaust hood must be 12" on SIS/U50-SIS/U75, and 18" on SIS/U100-SIS/U175. Call SunStar if reduced clearances are required.

## COMBUSTION AIR & VENTILATION

Combustion air and venting requirements for all gas-fired heating equipment must be provided per National Fuel Gas Code NFPA 54 or the authority having jurisdiction over the installation. In contaminated atmospheres or high humidity areas, optional outside air for combustion can be supplied. Heaters can be common vented, direct vented or indirect vented. Refer to Installation and Operation Instructions for further information. A **vented installation** must be vented to the outside of 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). For indirect vented applications, building exhaust opening must be located above the level of the heaters and inlet air openings must be located below the level of the heaters.

## FOR YOUR SAFETY

OPERATE SUNSTAR GAS INFRARED HEATERS WITH PROPER CARE AND OBSERVE ALL SAFETY PRECAUTIONS. Installation and service must be performed by a licensed contractor. The installation must conform with 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 NFPA 54) or CGA B149 installation codes (latest edition). These codes are available from ANSI, 1430 Broadway, New York, NY 10018, The National Fire Protection Association, Inc., Batterymarch Park, Quincy, MA 02269 or the Canadian Gas Association, 55 Scarsdale Road, Toronto, Ontario M3B 2R3 Canada.



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