

# ADDENDUM

## INSTALLATION AND OPERATION INSTRUCTIONS INFRARED RADIANT TUBE HEATER

Push Through System (Positive Pressure)

### Models:

SP (S,U) 40-CNG-N5

SP (S,U) 50-CNG-N5

SP (S,U) 60-CNG-N5

SP (S,U) 75-CNG-N5

**NOTE: THESE INSTRUCTIONS ARE AN ADDENDUM TO THE STANDARD INSTALLATION AND OPERATION INSTRUCTIONS SUPPLIED WITH EACH HEATER. REFER TO THE STANDARD MANUAL FOR ALL WARNINGS, CLEARANCES TO COMBUSTIBLES, ELECTRICAL/GAS CONNECTIONS AND ALL OTHER PERTINENT INFORMATION NOT SHOWN IN THESE INSTRUCTIONS.**

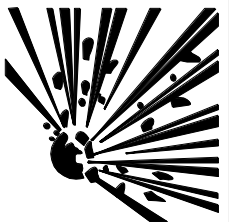

### SPECIFICATIONS

Model No.	Btu/hr Input	Total* Emitter Lengths	Combustion Air Plate Part #	Orifice Size		Minimum ** Mounting Height		Turbulator Qty.
				Natural Gas		@ Horizontal	@ 45° Angle	
SPS/SPU 40-CNG	40,000	20	#44140063	#32	(0.116)	10 ft.	9 ft.	N/A
SPS/SPU 50-CNG	50,000	20*, 30, 40	#44140062	3.3mm	(0.130)	11 ft.	10 ft.	N/A
SPS/SPU 60-CNG	60,000	20*, 30, 40	#4414006C	3.6mm	(0.142)	12 ft.	11 ft.	N/A
SPS/SPU 75-CNG	75,000	30, 40	#4414006D	#22	(0.157)	13 ft.	12 ft.	N/A

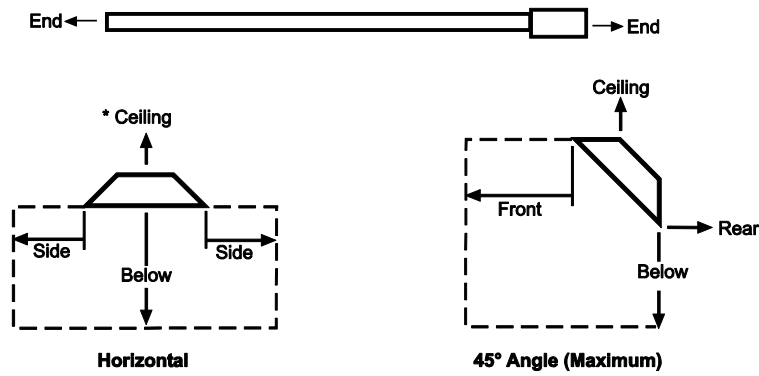
\* SPU Configuration Only

\*\* MOUNT HEATERS AS HIGH AS POSSIBLE. Minimums are shown as a guideline for human comfort and uniform energy distribution for complete building heating applications. Consult your SUNSTAR representative for the particulars of your installation requirements.

### MINIMUM CLEARANCES TO COMBUSTIBLES

<b>⚠ WARNING</b>		
		<b>FIRE AND EXPLOSION HAZARD</b> Combustible material must be located outside the clearance dimensions listed.  Failure to do so may result in death, serious injury or property damage.

Minimum clearances to combustibles shall be measured from the outer surfaces as shown in the following diagram:



MINIMUM CLEARANCES TO COMBUSTIBLES						
Model No.	Mounted Horizontally				Angle Mounted at 45°	
	Sides	Ceiling*	Below	Ends	45° Front	45° Rear
SPS/SPU 40-CNG	27"	6"	40"	30"	48"	12"
SPS/SPU 50-CNG	27"	6"	40"	30"	48"	12"
SPS/SPU 60-CNG	27"	6"	60"	30"	48"	12"
SPS/SPU 75-CNG	27"	6"	60"	30"	48"	12"

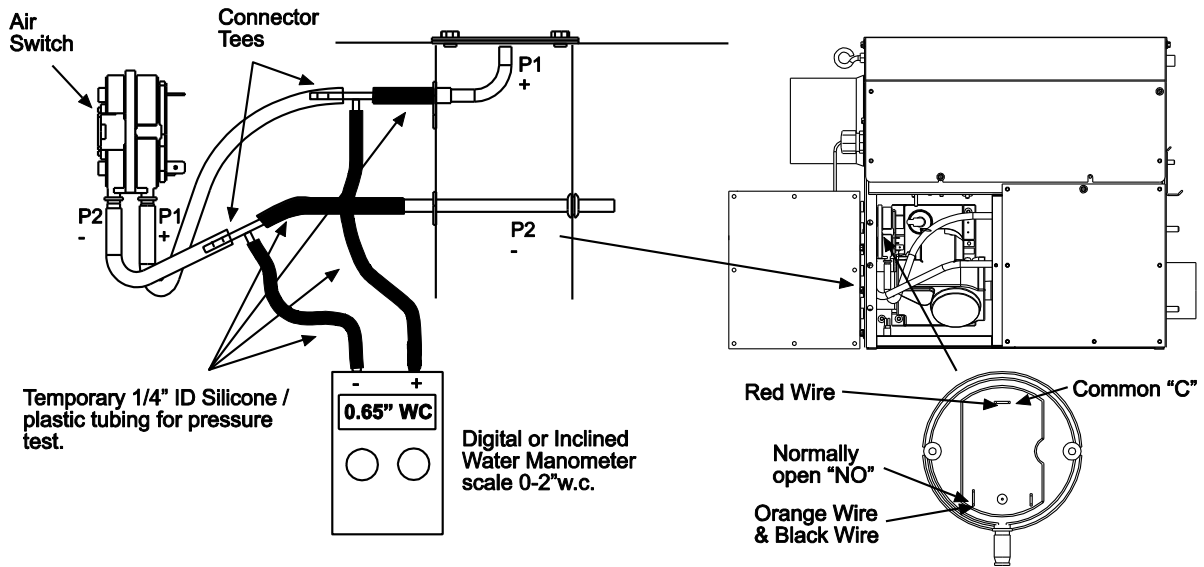
\* When used indirect vented, minimum clearance for CEILING must be: 12" for SPS/SPU 50-75. If optional corner and u-bend reflectors are not used, the clearance must be 18".

\*\* Maximum clearance below reduces to 72" once you are 20ft. downstream from the burner box.

## BURNER PACKAGE NUMBERS

NATURAL GAS	
MODEL NO.	PART NO.
SPS/U 40-CNG-N5 .....	#44150350
SPS/U 50-CNG-N5 .....	#44150370
SPS/U 60-CNG-N5 .....	#44150390
SPS/U 75-CNG-N5 .....	#44150410

## AIR SWITCH PRESSURE CHECK (for replacements only)



1. Open hinged access panel.
1. Add tubing to connect the air switch tubing P1 + and P2 - with the connector tees and the probes P1+ and P2+.
2. Connect plastic tubing of a digital or inclined water manometer with a 0-2" scale onto the connector tees.
3. Turn heater on and wait until blower motor is activated.
4. Observe air pressure from manometer. This should be higher than the set point indicated below for correct operation.

Model	Operating Pressure
SPS/U 40-CNC	1.11" W.C. Hot
SPS/U 50-CNC	0.99" W.C. Hot
SPS/U 60-CNC	1.06" W.C. Hot
SPS/U 75-CNC	1.02" W.C. Hot

**All pressures are with the heater in operation for at least 15 minutes.**