

RSCA Series Ceramic Heaters

Solutions For Commercial & Industrial Heating Since 1949



RSCA SERIES FEATURES

- Highly Radiant Efficient High Intensity Ceramic Heaters with Inputs From 26,000 To 104,000 Btu/hr.
- Suitable For Horizontal Or Angle Mount Up To 45°
- Choice Of Millivolt Standing Pilot or 24 Volt Direct Spark Ignition System Controls.
- All Heaters Are Equipped With 100% Gas Shut-off Safety Control.
- Natural Or Propane Gas.
- Indirect Vented Operation.

10-Year Limited Warranty On Body

10-Year Limited Warranty On Emitter Tiles

10-Year Limited Warranty On Cast Iron Burner

MODEL	GAS TYPE	INPUT BTUH	BURNER PRESSURE (Water Column)	SUPPLY PRESSURE (Water Column)		IGNITION TYPE
				MIN	MAX	
RSCA3-N1	NAT	26,000	3.5"	4.5"	14"	MILLIVOLT* STANDING PILOT
RSCA3-L1	LP	26,000	10"	11"	14"	
RSCA6-N1	NAT	52,000	6"	7"	14"	
RSCA6-L1	LP	52,000	10"	11"	14"	
RSCA3-N5	NAT	26,000	3.5"	4.5"	14"	24 VOLT** DIRECT SPARK IGNITION
RSCA3-L5	LP	26,000	10"	11"	14"	
RSCA6-N5	NAT	52,000	6"	7"	14"	
RSCA6-L5	LP	52,000	10"	11"	14"	
RSCA10-N5	NAT	104,000	6"	7"	14"	
RSCA10-L5	LP	104,000	10"	11"	14"	

* Millivolt Thermostat and Calibrated Wire Required **120/24 Volt Transformer Furnished, 0.4 AMPS.

BURNER AND BODY CONSTRUCTION

- Durable Cast Iron Burner For Precision-Crafted Performance And For Proper Combustion.
- 10-Year Limited Warranty On Cast Iron Burner.
- Stainless Steel Tile Retainer Assembly.
- Corrosion Resistant Aluminized Steel Body Construction.
- 10-Year Limited Warranty On Body.
- Specially Designed Internal Plenum Chamber For Proper Air/Gas Mixture.

EMITTER SURFACE

- Coated High Temperature Emitter Tiles For Higher Radiant Efficiency.
- Up To 1800° F Surface Temperature.
- Iron Oxide Coating Increases Surface Emissivity By 13%.
- 10-Year Limited Warranty On Emitter Tiles.
- Incoloy 800 Reverberatory Screen For Secondary Radiating Surface And Additional Safety.

REFLECTOR

- Highly Efficient Aluminum Reflectors.
- Double Formed Edges For Rigidity.
- Optional Parabolic Extension For Higher Mounting Heights.

OTHER

- Simple Chain Mounting.
- Rigid Mounting And Heavy Duty Wall Mounting Bracket Kits Are Available As Accessories.
- 1/2" NPT Female Gas Pipe Connection.
- Heaters Can Be Shipped By UPS.

RSCA Mounting Heights, Clearances & Dimensions

Minimum Recommended Mounting Heights

MODEL	RSCA3		RSCA6		RSCA10	
MOUNTING HEIGHTS (FEET)*	Standard Reflector	Parabolic Extension	Standard Reflector	Parabolic Extension	Standard Reflector	Parabolic Extension
Horizontal	10 to 16	14 to 18	12 to 20	18 to 26	14 to 24	22 to 34
45° angle	8 to 12	12 to 16	10 to 16	14 to 20	12 to 20	18 to 24

Minimum Clearances To Combustibles

REQUIRED MINIMUM CLEARANCES TO COMBUSTIBLES (INCHES)**	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°	Horiz.	45°
Back	24	8	36	12	36	12	36	12	45	18	48	12
Side	24	24	36	36	30	30	36	36	48	48	60	60
Top	24	32	36	36	36	36	36	36	36	36	36	36
Below	48	48	126	126	72	72	126	126	96	96	168	168

Shipping weight	30 lbs	40 lbs	70 lbs
-----------------	--------	--------	--------

*This chart is intended as a guide only. Please consult your local Space-Ray representative for detailed analysis of your particular radiant heating requirements. Observe all required clearance to combustibles as shown. ** Clearances measured from nearest edge.

RSCA SERIES ARCHITECTURAL/ENGINEERING SHORT FORM SPECIFICATIONS

Gas-fired infrared space heaters shall be furnished and installed in accordance with governing codes and as shown per building drawing(s) as described below;

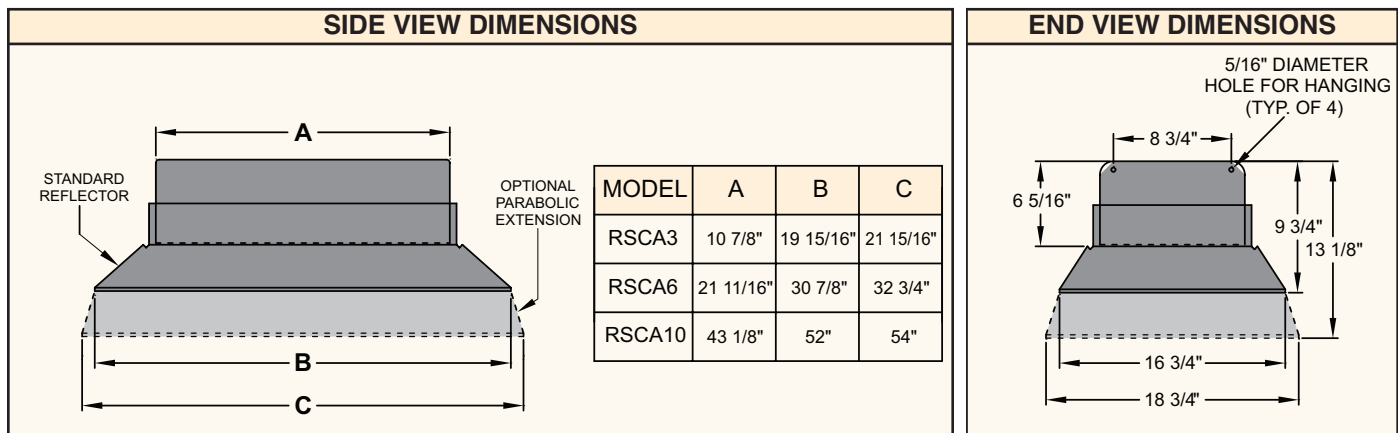
Heaters shall be Space-Ray RSCA series ceramic heaters, model number(s) RSCA_____, _____ BTU/HR, as manufactured by Gas-Fired Products, Inc., Charlotte, North Carolina. Heaters shall be equipped with a 24V direct spark ignition or millivolt standing pilot system with 100% gas shutoff.

Heaters shall be made of aluminized steel body construction, and shall have specially designed internal plenum chamber. This chamber shall provide optimum air/gas mixture for complete combustion. The carbon monoxide emission level should be .001% based on the maximum allowable emission level of .04%.

Heaters shall have a rigid one-piece cast iron burner and an Incoloy 800 Reverberatory Screen. The Reverberatory Screen shall increase the overall emissivity of the radiating surface with a blackbody radiation effect and act as a safety net in the unlikely event that the ceramic tile assembly is broken by an outside force. The heater's high temperature ceramic emitter surface shall be coated with a high emissivity iron-oxide coating which increases the emissivity of the radiating surface by 13%. The heater shall be capable of operating at up to 1800° F and shall withstand thermal shock if water quenched.

Heaters shall operate satisfactorily in any position from horizontal to forty-five degrees (45°) from horizontal. Heaters shall be Design Certified by the CSA. The manufacturer shall provide a written limited warranty of ten (10) years covering the emitter tiles, the cast iron burner, and body construction and a limited warranty of one (1) year for all components utilized in the heater's control assembly.

Dimensions



Mounting Height

Space-Ray ceramic heaters may be mounted at various heights and angles, according to the results desired. Please consult your Space-Ray representative for your radiant heating requirements. Observe all required clearances to combustibles as shown above.

Combustion Air and Ventilation

Combustion air and venting requirements for all gas-fired heating equipment must be provided per National Fuel Gas Code NFPA54 or the authority having jurisdiction over the installation. Indirect vented ceramic heaters require a minimum ventilation flow of 4 CFM per 1000 BTU per hour of total installed heater capacity on natural gas by either gravity or power ventilation (4.18 CFM per 1000 BTU per hour on propane). For more ventilation information, consult the ASHRAE handbooks, local codes and the Space-Ray Application Manual. Building exhaust openings for indirect vented applications must always be located above the level of the heaters. Likewise, inlet air openings must always be located below the level of the heaters.

For Your Safety

OPERATE SPACE-RAY INFRARED HEATERS WITH PROPER CARE AND OBSERVE ALL SAFETY PRECAUTIONS. Carefully follow the printed installation, operation and cleaning instructions furnished with these heaters. Follow the instructions on the nameplate of each heater and use in accordance with National, State and Local Codes or the authority having jurisdiction. Adequate ventilation must always be provided in accordance with the codes.



P.O. Box 36485 • Charlotte, NC 28236 • Telephone (Toll Free) 1-800-438-4936 • (704) 372-3485 • Fax (704) 332-5843
www.spaceray.com • email: info@spaceray.com