



Superior Radiant S Series Specification

Acceptable Manufacturer: Superior Radiant Products

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| <ul style="list-style-type: none">• <u>Canadian Location:</u>
563 Barton St.
Stoney Creek, ON, Canada L8E 5S1 | <ul style="list-style-type: none">• <u>United States Location:</u>
315 N Madison Street
Fortville, IN, USA 46040 |
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Assemblies shall be CSA approved high intensity heaters to ANS1 Z83.19 (latest revision) and CSA 2.35 (latest revision). Approval shall include components of the complete heater, including burners, reflectors, accessories, thermostats and associated controls and specifications. Installations of units shall comply with local building codes, or in their absence, the latest edition of the national regulations and procedures listed below. Heaters shall be electrically grounded in accordance with the National Electric Code, ANSI/NFPA 70 in the US, and the Canadian Electric Code, CSA C22.1 in Canada, and shall comply with all local requirements. Heaters shall be installed only for use with the type of gas appearing on the rating plate, and the installation shall conform to the National Fuel Gas Code, ANSI Z223.1 (NFPA 54) in the US and the Natural Gas and Propane Installation Codes, CAN/CGA B 149.1 & B149.2 in Canada. The Manufacturer warrants to the original owner that the product will be free of defects in material and workmanship.

Basis-of-Design Product shall be Superior Radiant Products Model S Series high intensity type gas-fired radiant infrared heaters with firing rates as called for within the range of 30 MBH to 160 MBH. CSA approved complete with burner head, ignition control, and valve. The unit shall draw no more than 20 VA, on 24 VAC or 120VAC, 60Hz. The heater shall perform a controlled and clean surface combustion. Heater body shall comprise of one or more Burner-head mixing chambers, ceramic emitter tiles, body and reflector assemblies. Burner head shall be aluminized steel. Ignition shall be solid-state direct spark and make a minimum of 3 ignition attempts before lockout. Ignition shall have openly accessible sense current contacts. Gas valve shall include a manual valve, two magnetic operators and a standard gas pressure regulator and have pressure taps to measure inlet and manifold pressures.

This product was specified based on best practice design to meet the specific engineered design criteria for this project.

Any submission for substitution must include the following material for consideration or bid will be deemed unqualified and rejected:

- Professional Engineer Stamped Design, calculations and complete set of stamped drawings with alternate system.
- Stamped fuel usage data showing a minimum 20% fuel savings over specified Superior Radiant Model
- Verification that Manufacturer successfully completed and passed the auditing requirements for ISO 9001 Quality Management System (QMS).