
James P. Sheldon Co., Inc.

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Winter and cold weather are quickly approaching, turning our thoughts towards staying warm. What better way to stay warm than with a gas fired infra-red heater from Detroit Radiant Products? Detroit Radiant offers a full line of tube heaters, space heaters, portable construction heaters, and electric infra-red heaters.

The Theory of Infra-Red Radiant Heating - A gas fired infra-red heating system emulates the efficiency of the sun by generating radiant energy that is converted into heat when absorbed by objects in its path. Once the infra-red energy is absorbed by the floors, machinery, stock and people, it is then re-radiated to warm the surrounding air.

This method of heating, as opposed to filling a room with warm air (such as a forced air unit) allows the source of heat to begin at the floor level and not the ceiling. This makes it the most efficient and effective method in which to heat under the diverse conditions present in warehouses, storerooms and even the most immense structures imaginable.

Stop by the JPS office to see the operational two-stage, "U"-configuration tube heater that is in our warehouse.



Below is Detroit Radiant's "**Ten Basic Steps to Applying an Infra-Red Heat System**", and also a link to their complete **Engineering and Application Guide**:

Step 1	Contact Us	Our distribution offers complete no charge design assistance. Local representatives are factory trained and will provide heat loss calculations, designs, equipment lists and much more. Toll free at 800-222-1100. On the web at www.reverberray.com/dealer
Step 2	Determine Type of Application	Infra-red heaters are ideal for use in firestations, warehouses, autobody shops, sporting facilities, pole barns, garages and much more. Infra-red heaters are NOT explosion proof and may not be placed in a Class 1 or 2 Explosive Environment, such as a paint booth.
Step 3	Discuss Performance Expectations	Discuss the customer expectations. What temperature do they wish to maintain? What will they do in the work environment? Where are the work and storage areas? Do they seek even heat distribution? What are the available mounting heights?
Step 4	Calculate the Heat Loss	Determine the heat loss of the building using standard ASHRAE Guidelines. Determine design temperature and desired temperature rise. Pay particular attention to the air changes per hour.
Step 5	Determine the Heater Type	There are a variety of heater types. Select high or low intensity heaters. If low intensity, select straight or 'U' configuration, negative or positive pressure, unitary or system design. Refer to the Design Guide. Multiple heaters, of lower BTU's, are preferred over a single large BTU unit.
Step 6	Review Min. & Max. Mounting Heights	Critical. All infra-red heaters have a minimum and maximum recommended mounting height. This is established to ensure effective and comfortable heat patterns at the floor levels. This data may be found in the series spec sheet and should always be considered.
Step 7	Clearances to Combustibles	Warning - Clearance Must Always Be Maintained. Pay particular attention to storage, overhead doors and car lift areas. Signs are recommended in accordance with the ANSI Standards.
Step 8	Review Coverage	Infra-red heaters are best applied in an outer perimeter design pattern. Place burners in the areas of greatest heat loss, opposite of each other and spaced equally. Consult the design guide.
Step 9	Select Model	Choose the specific model. Select single stage or two-stage models. Specify BTU's, lengths, gas type and voltage. Utilize upgrade options for best fit into the applications. Review construction features and pricing of each Series and select the best models.
Step 10	Other	Other related considerations include venting, controls, guards, signs and whether to utilize combustion air. Many accessories are also offered for use in the application, configuration and usage of your infra-red heater.

Engineering and Application Guide: <http://www.reverberray.com/pdf/Ideag.pdf>