The Cold Blocker™

Infrared Gas Heating For
Restaurants & Patios
Cold Blocker™ Infrared Tube Heaters

- Restaurants
- Patios
- Entry Ways
- Club Houses
- Warming Stations
- Small Unheated Areas

4 Different Sizes From 20 To 50,000 BTU/Hr.
- Single Or Two Stage Controls with Thermostat.
- No Exposed Flame — Wind Resistant.
- U-Tube Design For Uniform Energy Distribution.

Announcing The Space-Ray Cold Blocker
Space-Ray’s compact-sized, energy efficient, infrared gas tube heater is designed for use in indoor restaurant facilities and outdoor patio spaces. Its compact size (only 9 feet 3 inches in overall length) allows placement in those small, hard to heat areas where longer infrared tube heaters could not previously be used.

How Infrared Heating Works
The Space-Ray Cold Blocker™ heats from the bottom up. Surfaces at floor level will absorb the heat and then re-radiate it back to the surrounding air to maintain a blanket of warmth within the heated space. With forced air heating systems, energy is expended to constantly heat and re-circulate the air in the upper sections of the building first, before it stratifies down from the ceiling. This makes seating areas the last and most difficult area to heat.

Fuel Savings Up To 50%
With the Space-Ray Cold Blocker, improved comfort levels can be achieved along with lower fuel bills. In many buildings, owners have experienced annual fuel savings of between 30% and 50% when compared to conventional forced air systems.

The Best Alternative To Mushroom Style Heaters
The Cold Blocker offers 3 distinct advantages over round, free-standing mushroom style patio heaters. First, it’s not affected by windy conditions. The flame is totally enclosed inside the emitter tube and not affected by atmospheric or environmental conditions. Second, 20 lb. LP gas tanks are eliminated — restaurant staff can focus on serving customers rather than routinely replacing empty LP tanks. Finally, in most cases a Cold Blocker system owner can reduce heating cost as much as 75% when connected to natural gas system, 50% when connected to an LP system.

Versatile And Reliable
The Space-Ray Cold Blocker is both versatile and reliable. Each unit is factory pre-assembled for easy, low cost installation and is available in four sizes from 20,000-50,000 BTU/Hr. All models are available in either natural or propane gas and have been design certified by CSA. Reliability and durability are underscored through the use of high quality materials like calorized (heat treated) tubes, maintenance-free draft inducer motors and redundant step-opening gas valves.

Call For More Information
Consider the Space-Ray Cold Blocker for your restaurant facility or outdoor patio. Call our toll-free number, 1-800-438-4936 for more information and the name of the Space-Ray representative nearest you, or visit us at www.spaceray.com.
Optional Emitter Guard Kit & Outdoor Kit

The new Emitter Guard Kit covers the bottom exposed area of the heater for cosmetic purposes – ideal for commercial patios and restaurants or other areas where appearance may be a concern. The Emitter Guard Kit with the egg-crate decorative grill limits the heater's radiant throw, when compared to exposed emitter tubes, by approximately 30%. When used for outdoor installations, the Cold Blocker’s new Outdoor Kit protects the burner assembly from inclement weather like rain and snow.

Restaurant Layout Design
Multiple Cold Blockers can be used to provide ultimate comfort in restaurants. Heaters can be zoned based on restaurant occupancy and can be controlled with a thermostat or a three position switch.

<table>
<thead>
<tr>
<th>MODELS</th>
<th>SINGLE STAGE BTU/HR</th>
<th>TWO STAGE BTU/HR</th>
<th>TOTAL EMITTER TUBE LENGTH 15 FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB 20</td>
<td>20,000</td>
<td>20,000</td>
<td>NA</td>
</tr>
<tr>
<td>CB 30</td>
<td>30,000</td>
<td>30,000</td>
<td>N/A</td>
</tr>
<tr>
<td>CB 40</td>
<td>40,000</td>
<td>40,000</td>
<td>25,000</td>
</tr>
</tbody>
</table>
| CB 50  | 50,000              | 50,000           | 31,500

NOTE: For all installations higher than 2000 ft. above sea level, please consult the factory regarding recommended derating of heaters.
Venting Requirements

In residential applications, heaters must be vented outside the building with a flue pipe. In commercial applications, heaters can be common vented, individually vented or indirect vented.

A vented installation must be vented outside 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).

Installation Requirements

Installation and service must be performed by a licensed contractor. The installation must conform to 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 NFPA54) or GCA B149 (latest edition) installation codes. These codes are available from the National Fire Protection Association, Inc., Batterymarch Park, Quincy, MA 02269 or the Canadian Gas Association, 55 Scarsdale Road, Toronto, Ontario M3B 2R3, CANADA.

For Your Safety

Operate Cold Blocker infrared heaters with proper care and observe all safety precautions. Carefully follow printed installation, operating and cleaning instructions furnished with the heater. Do not store gasoline or combustible products in the vicinity of the heater. Keep children, clothes and drapery away from the heater. Do not touch the heater or the tubes while the heater is in operation. Adequate ventilation must always be provided in accordance with codes.