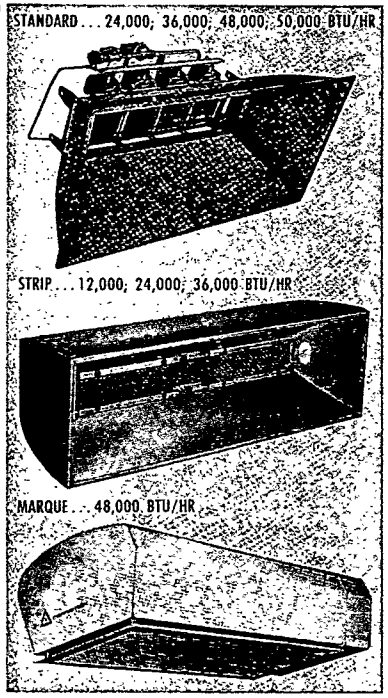
HUPP CORPORATION

INFRA-RED DIVISION • 1135 IVANHOE ROAD • CLEVELAND, OHIO 44110/LICENSEE OF AMERICAN INFRA-RED RADIANT CO.



PERFECTION SCHWANK GAS INFRA-RED HEATERS

fired by natural, L.P., mixed or manufactured gas

FOR COMFORT HEATING, CONDENSATION PREVENTION AND PROCESSING

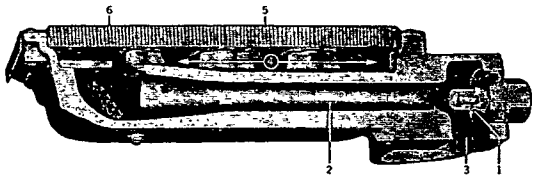
STANDARD UNITS—For comfort heating in Industrial buildings. Ideal for ceiling and side wall mountings from 12 ft. to 50 ft. high. These infra-red units prevent condensation and corrosion in the warehousing of metals. Since moisture has an affinity for infra-red, these units are ideal for all types of process operations such as drying and curing.

STRIP UNITS—Specifically designed for low mounting applications such as swimming pool areas, loading docks, grandstands, outdoor restaurants and other areas that are semi-protected.

THE MARQUE—Designed for heating marquee-covered areas like station platforms, shopping centers, drive-in banks, theater fronts. Prevents snow accumulation. Weatherproofed with architectural gray porcelain enamel finish.

WARM THE MAN AND THE JOB—FIRST!

Perfection Schwank Gas Infra-Red Heaters produce energy rays which, like the rays of the sun, are transformed into heat only when they strike objects. This characteristic allows the user to economically heat equipment, floors, fixtures, people—before heating the surrounding air.



OPERATING PRINCIPLES

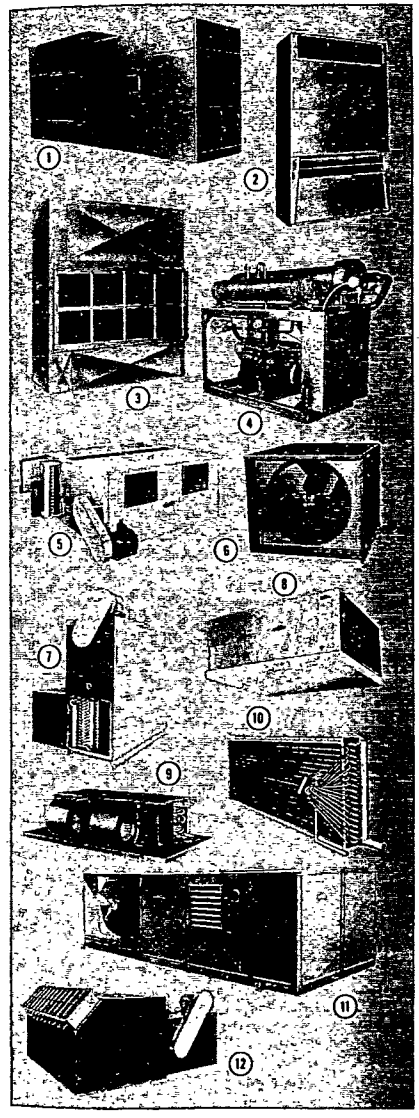
Gas is metered through an orifice (1) at the opening of the mixing tube or venturi (2). The gas and air are mixed in the venturi and evenly distributed to the chamber (4). The mixture is burned at the outside surface of the ceramic mat (5) where temperature reaches 1600 degrees F. After a few minutes operation, the small flame at each of the holes (6) in the ceramic becomes practically invisible.

ADVANTAGES

- Fuel costs are greatly reduced
- Electrical power is negligible
- Average installation can be written off in 4 to 5 years
- Maintenance at an absolute minimum—no moving parts
- Heat without air movement
- Installations approved by major insurance companies
- Close to 100% utilization of heat energy
- Over 60,000 satisfied users
- Backed by 75 years of gas combustion and control experience
- Hupp engineers all installations based on heat loss method

PIONEERS IN GAS INFRA-RED HEATERS

UNITED STATES AIR CONDITIONING CORPORATION



DELAWARE, OHIO

Air Conditioning, Heating & Ventilating Equipment

Sales Representatives In All Principal Cities. Consult Your Telephone Directory Yellow Pages. Export Office: 13 E. 40th St., New York 16, N.Y.

usAIRco

1. CENTRAL STATION AIR CONDITIONERS—with built-in evaporative condensers, water-cooled or air-cooled condensers for commercial or industrial applications. 10 to 60 tons. Bulletin No. 94C

2. WATER-COOLED PACKAGE AIR CONDITIONERS—specially designed for use either single or in multiples, within or out of the air conditioned space with ductwork or plenum chamber. Highly adaptable for all types of commercial and industrial buildings. Available as water-cooled in 3, 5, 7½, 10, 15 and 20 tons or for use with remote air-cooled condensers. Bulletin No. 77C

3. SINGLE PACKAGE AIR CONDITIONERS—large capacity single package air conditioners (Single or Multi Zone) available with water-cooled, air-cooled or evaporative condensers. Three selections of evaporator coils and wide choice of blower and motor arrangements. 25 to 75 tons. Bulletin No. 93C and 95C

4. PACKAGE LIQUID CHILLER—complete packaged refrigerating units for air conditioning and industrial process applications. Available in sizes ranging from 7½ to 150 tons with water-cooled condensers or for use with remote air-cooled condensers. Bulletin No. 51C

5. HEATING AND VENTILATING UNITS—blower heater with sectional construction perform heating, ventilating, filtering and humidifying over a wide range from 400 CFM to 50,000 CFM with heating capacities from 1,200 BTU/hr to 4,000,000 BTU/hr. Available with steam, steam distributing or hot water coils. Bulletin No. 73C

6. AIR-COOLED CONDENSING UNITS—complete line includes a wide variety of sizes. Low silhouette air-cooled condensing units for roof or ground level remote locations. Match-mated for blower coil assemblies. 3 to 30 H.P. Bulletin No. 83C

7. SECTIONAL AIR CONDITIONERS—air handling air conditioners with sectional construction provide heating, humidifying, cooling, dehumidifying, filtering and ventilation when used with remote sources of heat and mechanical refrigeration. 13 sizes available with choices of direct expansion, chilled water cooling coils and steam, steam distributing or hot water coils. CFM capacities range from 400 to 50,000 CFM. Bulletin No. 74C

8. BLOWER-COIL ASSEMBLIES—for space applications. Available for horizontal or vertical air flow through ducts or plenum chamber in sizes 3, 5, 7½, 10, 15 and 20 tons. Designed specifically for use with remote air-cooled condensing units. Furnished with four row direct expansion coil with thermal expansion valve, filter and heating coils. Bulletin No. 72C

9. FAN-COIL HEATING AND COOLING UNITS—room air conditioners heat, ventilate, filter and circulate air in winter and cool, dehumidify, filter and circulate air in summer. Wide range of sizes in four models: Hideaway, Free Standing, Recessed and Ceiling Suspended. Bulletin No. 96C

10. HEATING AND COOLING COILS—wide range of sizes for heating, cooling aid air conditioners in four types: Direct Expansion, Water Coils, Standard Steam and Steam Distributing. Bulletin Nos. 65C-66C-67C-69C

11. ROOFTOP COMBINATION PACKAGED AIR CONDITIONERS—new type of gas heating and electric cooling, year-round air conditioner. Highly adaptable for ground level or rooftop location. Bulletin No. 20C

12. MULTIZONE AIR CONDITIONERS—available in eight sizes from 2,400 to 50,000 CFM and provided for simultaneous heating and cooling of separate zones. Direct expansion and chilled water coils provide cooling with steam or hot water coils for heating. Bulletin No. 75C

When Writing For Product Bulletins Specify Number For Fast Service