DK Series Ceramic Heaters
Solutions For Commercial & Industrial Heating Since 1949

DK SERIES HEATERS
■ Special Honeycomb Tile Design for Increased Radiant Output.
■ Inputs from 30,000 to 160,000 Btu/hr.
■ Suitable for Angle Mount up to 35°.
■ All Heaters are Equipped with 100% Gas Shut-off Safety Control.
■ 24 Volt Direct Spark Ignition System.
■ Natural or Propane Gas.
■ Indirect Vented Operation.

MODEL | GAS TYPE | INPUT BTU/HR | NO. OF BURNERS | BURNER PRESSURE (Water Column) | SUPPLY PRESSURE (Water Column) | MINIMUM MOUNTING HEIGHT (feet) |
------|----------|--------------|----------------|--------------------------------|-------------------------------|-------------------------------|
DK30  | NAT      | 30,000       | 1              | 6”                             | 7”                           | 11                            |
DK33  | LP       | 33,000       | 1              | 10”                            | 11”                          | 14                            |
DK35  | NAT      | 35,000       | 1              | 6”                             | 7”                           | 14                            |
DK40  | NAT      | 40,000       | 1              | 6”                             | 7”                           | 14                            |
DK60  | NAT      | 60,000       | 2              | 6”                             | 7”                           | 14                            |
DK66  | LP       | 66,000       | 2              | 10”                            | 11”                          | 14                            |
DK70  | NAT      | 70,000       | 3              | 6”                             | 7”                           | 14                            |
DK80  | NAT      | 80,000       | 3              | 6”                             | 7”                           | 14                            |
DK100 | NAT      | 100,000      | 3              | 6”                             | 7”                           | 14                            |
DK100 | LP       | 99,000       | 3              | 10”                            | 11”                          | 14                            |
DK120 | NAT      | 120,000      | 3              | 6”                             | 7”                           | 14                            |
DK132 | LP       | 132,000      | 4              | 10”                            | 11”                          | 14                            |
DK140 | NAT      | 140,000      | 4              | 6”                             | 7”                           | 14                            |
DK160 | NAT      | 160,000      | 4              | 6”                             | 7”                           | 14                            |

BURNER AND BODY CONSTRUCTION
■ Modular Burner Construction and Venturi.
■ Heavy Gauge Aluminized Steel Burner Head and Venturi.
■ Stainless Steel Tile Retainer Assembly.
■ Corrosion Resistant Aluminized Steel Body Construction.

EMITTER SURFACE
■ Special Honeycomb Tile Design for Increased Radiant Output.
■ Up to 1800°F Surface Temperature.
■ 5-Year Limited Warranty on Emitter Tiles.
■ Optional 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.
■ 1/2” NPT Female Gas Pipe Connection.
■ 120 Volt Electrical Supply (0.4 Amp Draw).
■ 120/24 Volt Transformer Included.
■ Heaters can be Shipped by UPS.
**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 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, CAN B149 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 always must be located above the level of the heaters and inlet air openings always must be located below the level of the heaters.

**Minimum Clearances To Combustibles**

Observe all required clearances as shown. Clearances are measured from the reflector edge.

**D K 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 DK series ceramic heaters, model number(s) DK ________, ________ Btu/hr, as manufactured by Gas-Fired Products, Inc., Charlotte, North Carolina. Heaters shall be equipped with a 24V direct spark ignition system with 100% gas shutoff.

Heaters shall be made of aluminized steel body construction and shall consist of multiple burner heads. Heaters shall utilize special honeycomb tile design for increased radiant output. As an option, heaters can utilize an Incoloy 800 reverberatory screen that will increase the overall emissivity of the radiant surface with a blackbody radiation effect and could serve as a protective screen in the unlikely event that the ceramic tile assembly is broken by an outside force. The tile temperatures can vary from 1650°F-1800°F and tiles shall withstand thermal shock when water quenched.

Heaters shall operate satisfactorily in any position from horizontal to thirty five degrees from horizontal. Heaters shall be Design Certified by C.S.A. to American National Standard Z83.19 /CSA Standard 2.35. The manufacturer shall provide a written limited warranty of five (5) years covering the emitter tiles and a limited warranty of one (1) year for all components utilized in the heater's control assembly.

**END VIEW DIMENSIONS**

- **MODEL**
  - DK30 DK33 DK35 DK40
  - DK60 DK66 DK70 DK80
  - DK100 DK120
  - DK132 DK140 DK160

- **A** 9" 14 7/8" 20 3/4" 26 5/8"
- **B** 15 3/4" 21 5/8" 27 1/2" 33 3/8" 35 3/8"
- **C** 17 3/4" 23 5/8" 23 1/2" 35 3/8"

**SIDE VIEW DIMENSIONS**

- **STANDARD REFLECTOR**
  - 7 3/4" extension

- **OPTIONAL PARABOLIC REFLECTOR EXTENSION**
  - 3/8" diameter holes for hanging (typical of 4)

- **36"-48" width
  - 26 1/2"
  - 28 1/2"

**Mounting Height**

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 always must be provided in accordance with the codes.

**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 always must be provided in accordance with the codes.