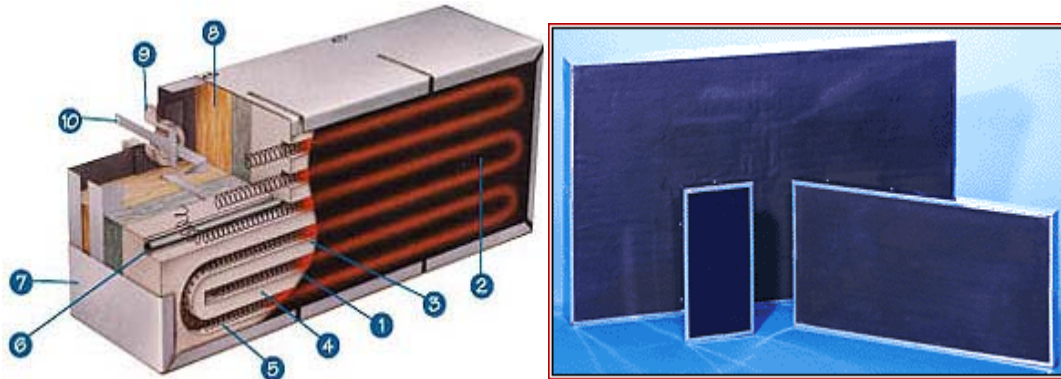


RADIANT HEATERS



Features

High Temperature Quartz Cloth Black Coating with Cement Bond (1 2 3)

Refractory board to hold Precision resistance wire (4 , 5)

Quartz Thermowell Tube (optional) built into heater (6)

Aluminum steel Frame (7) Blanket Insulation (8)

Ceramic Bushings terminal Insulators (9) Stainless steel Terminals

The FBA model has holes drilled in its face in order to enable forced air to flow through the heater. The airflow's purpose is either to protect sensitive material or components from being damaged by infrared heating, improve the drying process by gently sweeping moisture away, or provide an infrared/convection heating combination. As an extension of the F-Series heater, the FBA model is manufactured with either 1/8" (3.2 mm) or 1/4" (6.4 mm) holes usually located 1" (25.4 mm) from the center. The heater has no internal insulation in order to accommodate a 2"-5" (50.8-127 mm) typical plenum area in its cavity. It commonly has a back-mounted 3" (76.2 mm) hole for airflow. The hole size can match your specifications. Smaller heaters have one hole, whereas larger heaters can have multiple holes. The airflow can also be directed through the side or end of the heater casing in some applications. Individual high-temperature fans can be attached directly to these holes, or a centrifugal fan can be used with ductwork to supply the air to multiple heaters. The airflow construction commonly has 20 to 50 cfm/ft². Applications for the FBA model include removing moisture, operation in a secondary stage powder coating oven, screen printing, and electronics.

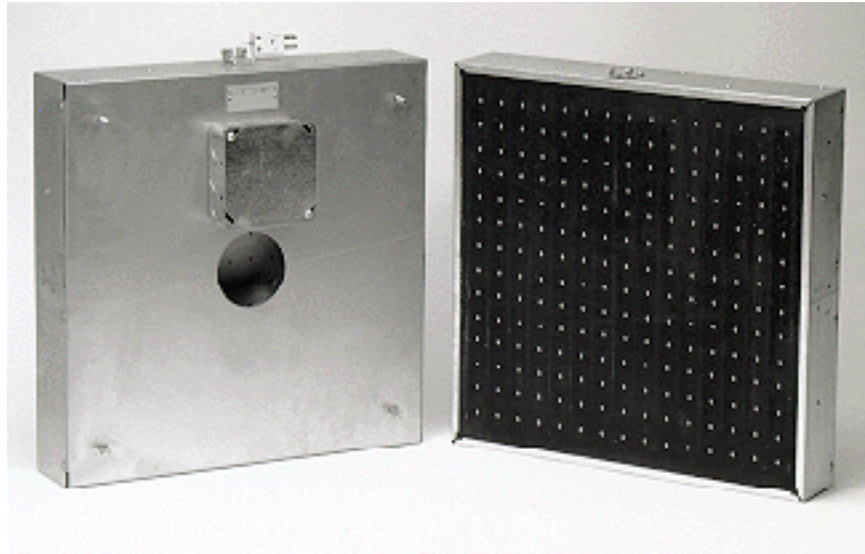
The FBA-Series heater can be constructed as wide as 24" (610 mm) and as long as 72" (1829 mm), though not that width and length in the same heater. A 72" (1829 mm) long heater is commonly 12" (305 mm) wide. The heater has a maximum watt density of 25 watts/in²(39 kW/m²) and a durability defined by a typical life expectancy of 25,000 hours. It has a high radiant efficiency of 78.5%. Because the heater's design does not depend on an external reflector, the heater maintains a consistently high radiant efficiency over time. Heaters in the F-Series line of infrared panel heaters have a very durable emitter surface constructed using a patented manufacturing process. The FB model has a solid flat uniform surface. Because the FBA heater has air holes drilled throughout its face, its insulation is removed in order to accommodate an air delivery plenum.

60- Meg Dr Unit 13

London Ont N6E 3T6

Ph (519) 686 2715 Fax (519) 686 8159

Radiant Heaters with Air Holes



FA-Series Specifications

The FA model has holes drilled in its face in order to enable forced air to flow through the heater. The airflow's purpose is either to protect sensitive material or components from being damaged by infrared heating, improve the drying process by gently sweeping moisture away, or provide an infrared/convection heating combination. As an extension of the F-Series heater, the FA model is manufactured with either 1/8" (3.2 mm) or 1/4" (6.4 mm) holes usually located 1" (25.4 mm) from the center.

The heater has no internal insulation in order to accommodate a 2"-5" (50.8-127 mm) typical plenum area in its cavity. It commonly has a back-mounted 3" (76.2 mm) hole for airflow. The hole size can match your specifications. Smaller heaters have one hole, whereas larger heaters can have multiple holes.

The airflow can also be directed through the side or end of the heater casing in some applications. Individual high-temperature fans can be attached directly to these holes, or a centrifugal fan can be used with ductwork to supply the air to multiple heaters. The airflow construction commonly has 20 to 50 cfm/ft².

Applications for the FA model include removing moisture, operation in a secondary stage powder coating oven, screen printing, and electronics.

The FA-Series heater can be constructed as wide as 24" (610 mm) and as long as 72" (1829 mm), though not that width and length in the same heater. A 72" (1829 mm) long heater is commonly 12" (305 mm) wide.

The heater has a maximum watt density of 25 watts/in² (39 kW/m²) and a durability defined by a typical life expectancy of 25,000 hours. It has a high radiant efficiency of 78.5%. Because the heater's design does not depend on an external reflector, the heater maintains a consistently high radiant efficiency over time.

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RADIANT CERAMIC HEATERS



Radiant Ceramic heaters are available with reflectors and mounting plates

High surface temperatures 1200 to 1500 deg F

Available in various sizes 9.625 "X 2.375 "4.750 "X 2.375 "5 "round

4.750 "Square

Modular Panels available in various sizes depending on applications

Modules and heaters can be zoned

Heaters available with built in thermocouples

Wavelength 2.9 to 5 microns peak energy

A highly efficient heat source for industrial heating applications available in various sizes voltages and wattages. These heaters are shaped parabolic or flat, square or round depending on the object or part to be heated. Being virtually maintenance free the heaters provide long life around 10,000 hours and are easily replaceable by removing a single mounting clip, insuring minimum down time.

Available in the following voltages and sizes they can be wired in series for 480 & 600 volts

Model Number	SIZE	Volts	Wattages	available	
A 1000	4.800 "X 4.800 "	220 volts	800	600	400
A 1000 2	9.625 "X 2.375 "	240 volts	1000	500	200
A 500	4.805 "X 2.375 "	120 volts	500	400	300
A 1000 2	9.625 "X 2.375 "	240 volts	500	400	300

Applications

1. Painting industry:

Enameling equipment (Powder sized is used for the painting and enameling of automobile, motorcycle, fuel tank, denigrator, washing machine, motor, lumber painting, sawing machine, and metal painting etc. Operation will be finished in 7-8 minutes and has quick speed, good hardness, especially good quality.

2. Plastic industry:

Vacuum shaping (PP. PE. PS. PVC. PBS) softening, compression and packing of plastic products, heating, hardening and fixed form for staple fiber such as nylon, perlonm etc., print compression and heating of plastic and rubber products.

3. Electronic industry:

Drying of electronic products, drying of hollow substance, such as IC circuit, condenser, PC circuit panel, Television Brawn tube etc., drying of electric isolation painting, because it can clear the inner humidity, makes a complete drying so the isolation efficiency is increased.

4. Shoes industry:

Bonding (Bond-aid), heating, fixed form, drying heat drying of leather, disinfection drying of outer leather.

5. Foods industry:

Drying of animal flesh and fishes, keeping warm of foods, production and drying of cracker. foods, chocolate, heat drying of cigarette, minor cereals.

6. Spinning industry:

Drying old spinning synthetic fibre, disposal drying of washing, printing and drying etc.

7. Printing industry:

Canning, heating and drying of roller printing, quick drying of paper, paint, heat drying of glass paint.

8. Ceramic industry:

Drying in shade for ceramic and glaze, drying of enamel, tile, ceramic, and gypsum.

9. Chemical industry:

Drying of chemical medicine, medical sterilization of rays irradiation, steralisation of experiment room.

10. Resin industry:

Bonding and shaping of resin, and paint resins.

11. Others:

Used for other industries production; preheating, heating, heating in shade, hardening, sterilization, such as physiotherapy, massage, sauna, greenhouse heater, humidity removal equipment, pet feeding and keeping warm etc.

For more info contact HCS Heaters Controls & Sensors Ltd

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