

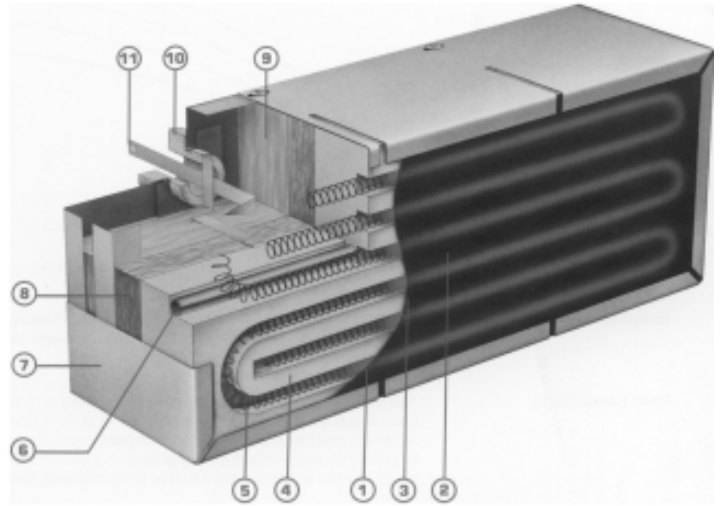
F-SERIES QUARTZ PANEL RADIANT HEATERS

MODELS: FB & FBA

The F-series line of IR panel heaters have a very durable emitter surface constructed using a manufacturing patented process. The model FB has a solid flat uniform surface. The FBA heater has air holes drilled throughout the face of the heater.

FEATURES:

1. High temperature quartz cloth
2. High temperature black coating
3. High temperature cement bond
4. Grooved refractory board to hold resistance wire
5. Precision resistance wire
6. Quartz thermowell tube
7. Heavy gauge aluminized frame
8. Refractory blanket insulation
9. Bulk Insulation to help minimize back heat loss
10. Ceramic bushings to insulate terminals
11. Stainless steel terminals



QUALITY CONSTRUCTION

The F-series panel heater’s radiant surface is constructed through a patented process which bonds together quartz fabric with a ceramic fiber coil support using a special high temperature cement. Before bonding, the ceramic fiber refractory board is grooved out to support the precision resistance coils. The resistance coil is then housed into the grooved out refractory board. A layer of durable, high temperature, cement is used to bond the quartz face to the resistance coils as well as the refractory coil support. The resistance coils used are an iron/chromium/aluminum alloy. These are then welded to stainless terminals which are routed to the back of the heater for external electrical connections. The welding insures the best possible electrical path. By changing to stainless buss bars and terminals the conductivity is increased insuring less heat buildup in the terminals. The heater board is then backed up by a high temperature insulation to prevent back heat loss. Finally this is all packaged in a sturdy aluminized steel frame.

FB ADVANTAGE DURABILITY

The result of the bonded construction is a very durable, virtually unbreakable surface. This allows the F heaters to operate in the harshest industrial environments.

UNIFORM IR COVERAGE

Each pass of the resistance coil is surrounded by three walls of refractory board, and still more insulation behind that. As a result the majority of its IR energy is directed over the process with great uniformity.

FLEXIBILITY IN SIZES, WATTAGE AND VOLTAGE

The unique construction of the FB heaters allows for tremendous manufacturing flexibility, heaters can be built as long as 100" Standard thickness is 3". However, they can be made as thin as 1" thick. Special sizes can be designed to system requirements, up to 25 watts per square inch and 600 volts.

EXTERNAL REFLECTORS NOT REQUIRED

The refractory board and bulk insulation behind the heating element help prevent back heat loss. This eliminates the need for inefficient external reflectors.