Brown Fired Heater has been providing process and tank immersion heaters for petrochemical and refinery applications for over 50 years.

**PROCESS HEATERS FOR:**
- Asphalt
- Heavy Oils
- Process Liquids
- Crude Oil / Brine
- Heat Transfer Fluids
- Steam Superheating
- Air & Gases to 1200°F / 650°C

**TANK IMMERSION HEATERS FOR:**
- Process Fluids
- Firewater Tanks
- Asphalt / Oil Tanks
- Bioremediation Tanks
- Oil / Water Separation

Two vertical Type 102 Process Heaters installed outside a plant.
TYPE 102 IN-LINE PROCESS HEATERS

Heavy duty, finned pipe design, the Brown Type 102 fired heater heats pressurized liquids or gases with natural gas, propane or refinery fuel gas.

- Asphalt
- Heavy Oils
- Process Liquids
- Crude Oil / Brine
- Heat Transfer Fluids
- Steam Superheating
- Air & Gases to 1200°F / 650°C

These in-line heaters can also be used for tank in-loading, out-loading or for pumped flow heating of tank contents. The heaters can be provided with bolt-up removable firetubes to facilitate inspection and cleaning.

BFH burners and controls are factory assembled on a structural steel skid (Package Stand) and “fire-tested” with temperature, flame supervision and fuel safety controls.

Horizontal and vertical designs are available. ASME Boiler & Pressure Vessel Code SECT I and VIII design, fabrication, and registry can also be provided.

Heaters utilize no heat absorbing, high maintenance refractory materials. Heat is supplied by a special long flame burner to the process through fins continuously resistance welded to the firetube.

Typical Type 102 Process Heater installation.
Type 302 tank immersion heaters are U-shaped in design. The entire heater is installed through a bolted (or welded) flanged opening in the tank wall. A burner fires inside one “leg” of the heater and exhaust gases exit the other “leg” to a stack external to the tank.

- Process Fluids
- Bioremediation Tanks
- Firewater Tanks
- Oil / Water Separation
- Asphalt / Oil Tanks

Typical Type 302 Immersion Heater installation.
Brown Fired Heater has been providing Type 102 and 302 heaters to major petrochemical and refinery customers for over 50 years, such as:

- Petroecuador
- Ecopetrol (Colombia)
- Petrojam (Jamaica)
- Refineria La Pampilla SA (Peru)
- ExxonMobil
- BP Oil
- Valero
- Shell Oil
- Imperial Oil
- Air Products
- Linde
- Praxair

Please contact our factory office with any questions or if you would like further information.

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