**Specification Data**

**TYPE F TURBO-RING FORCED DRAFT BURNERS**

**F22 Patented**

FORTY-TWO MILLION BTU/HR TURBO-RING FORCED DRAFT BURNER
Air or Steam Atomization - No. 2 thru 6 Fuel Oil and Natural or LP Gas

**Burner Numbering System**

- **Burner Type**
- **Burner Size**
- **Fuel (gas-oil)**
- **Blower Motor HP (60 HP)**

- **F - 22 - GO - 600 - XXXX - E2.40 - F8H.2**

- **Oil Control System**
- **Gas Train Size**
- **Gas Control System**
- **Flame Safeguard Control**

*See Catalog Sheet 1-gen-10.1 for burner numbering.*
*Use Order Entry and Equipment Pricing Form 1196 when placing order.*

**Dimensions**

- **42” plus burner nose length (5-1/2” standard) is required behind the burner to remove the oil drawer assembly.**

- Dimensions shown cover the most commonly used burners within each size. These dimensions are typical and subject to change without notice. Request a certified print for specific dimensions.

**NOTE**

- Air compressor is standard with air atomizing systems only. It is optional (extra cost) for steam atomizing units. Oil, gas and air pressure gauges are optional.

**CONTROL CABINET**

**AIR COMPRESSOR**

**TYPICAL DUAL-FUEL BURNER WITH GAS AND AIR, OR STEAM ATOMIZING OIL SYSTEM**

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*Covered by one or more of the following patents: U.S. patent numbers 4785680; 4932274; 5441404; 5722821; 5944506; 5957682. Canadian patent number 1279632 and Canadian patents pending.*
Application Data

- For firetube or watertube applications to 1000 boiler HP.
- UL Listed for No. 2 - No. 6 fuel oils and natural gas. FM and IRI versions available on request.
- Turndown ratios of 5 to 1 at 1000 boiler HP and 4 to 1 at 800 boiler HP.
- Includes control cabinet and air compressor. Oil pump and gas train systems available at extra cost. Refractory front plate is optional and priced by factory at time of request for quotation.
- Fuel changeover by manual or automatic switching.
- Factory wired, assembled and tested.
- Applications must have a combustion area at least 50 inches in diameter by 224 inches long. Two-pass firetube boilers must have a minimum of 20 inches turnaround and three-pass must have a minimum of 24 inches turnaround.
- All frontplates must be built by or to JZ/GP specifications.
- All applications require prior JZ/GP Factory Approval.

Specifications and Capacities

<table>
<thead>
<tr>
<th>Burner Numbers</th>
<th>Max. Firing Rate @ 6 Inches W.C.</th>
<th>Burner Blower Motor</th>
<th>Air Atomization @ 45 PSIG</th>
<th>Electric Heaters</th>
<th>Approximate Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Btu/Hr.</td>
<td>GPH</td>
<td>HP</td>
<td>RPM</td>
<td>Model</td>
</tr>
<tr>
<td>F22.9</td>
<td>38 Million</td>
<td>250</td>
<td>50</td>
<td>3450</td>
<td>LE55</td>
</tr>
<tr>
<td>F22</td>
<td>42 Million</td>
<td>280</td>
<td>60</td>
<td>3450</td>
<td>LE55</td>
</tr>
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</table>

1. Capacity up to 2000 ft. above Mean Sea Level.
2. Oil ratings based on 150,000 Btu/U.S. Gallon for heavy oil.
4. Weight will be determined by fuel(s) to be fired and accessories ordered. Weights shown are for a combination gas-oil burner with control cabinet and air compressor. Frontplates are shown separately.
5. A minimum of 5 pounds gas pressure is required at the inlet to the gas system.

Burner Start-up

- Start-up will be performed by JZ/GP Factory Personnel at additional cost. Others may be approved for start-up providing they have been qualified for each boiler application.
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