780 SERIES

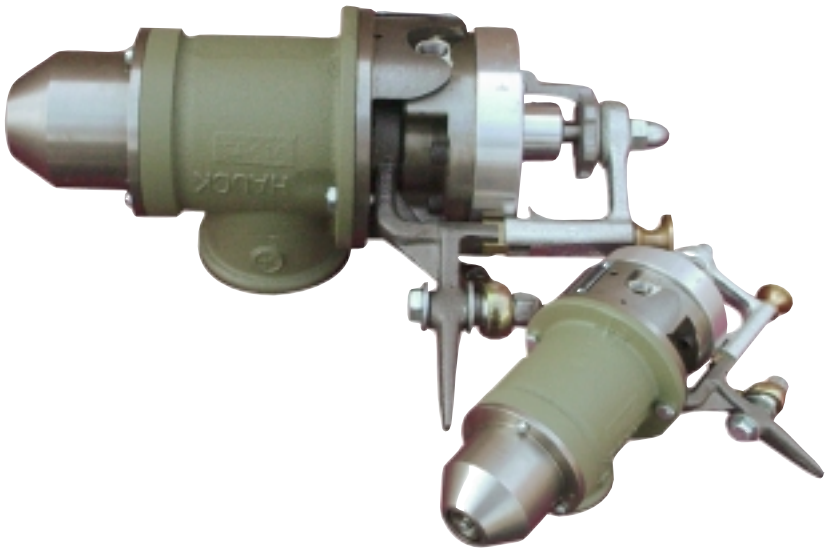
Self-Proportioning Oil Burners

Features

- Burns all grades of fuel oil
- Single lever control
- Low pressure air
- World-wide industry standard for oil burner applications
- Self-contained oil flow control valve

Benefits

- Accurately proportions oil and air
- Highly reliable and efficient using low pressure atomizing air
- Simplified installation and operation



Hauck's 780 Series Burners are self-proportioning, oil-fired burners designed for highly efficient operation using low pressure atomizing air. The 780 Series can be fired on No. 2 through No. 6 fuel oil with capacities from 200,000 to 14,000,000 Btu/hr (59 - 4100 kW). Higher capacities available with induced air.

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Combustion Excellence Since 1888

Hauck Manufacturing Company

780 SERIES

SELF-PROPORTIONING OIL BURNERS

ADVANTAGES OF THE 780 SERIES

Single Lever Control

Accurately Proportions Oil and Air

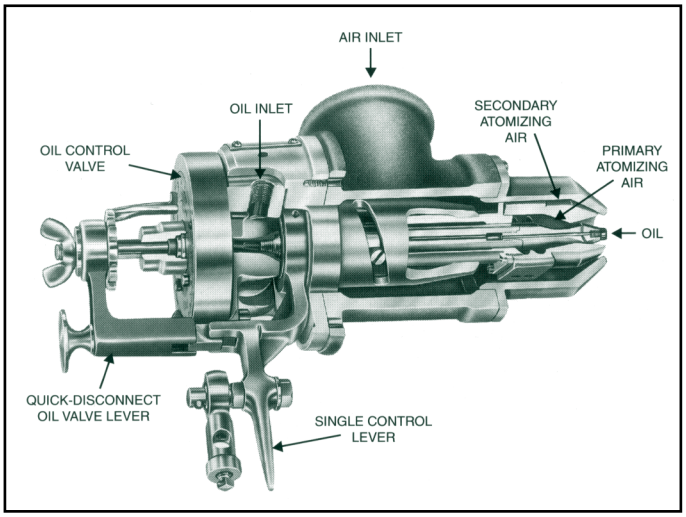
Highly Reliable and Efficient with Low Pressure Atomizing Air

The 780 Series burners are self-proportioning, oil-fired burners designed for highly efficient operation using low pressure atomizing air. This results in lowered operating costs due to the reduced power consumption of a low-pressure blower compared to an air compressor. The 780 Series also eliminates the need for costly high-pressure steam for atomization. Using the 780 Series eliminates the need for a separate atomizing air blower, as the burner will operate with air pressures ranging from 16 to 32 osig (6.9 to 13.8 kPa).

The 780 burner is not designed for sealed-in ratio firing in a cold furnace. Special mounting brackets with induced air ports are used to mount the burner to a furnace wall.

All grades of fuel oil, even the heaviest, are completely atomized to provide the most efficient combustion. Superb atomization is achieved by controlling the air flow at the nozzle outlet. Constant full primary and secondary atomizing air pressure are maintained at the point of atomization. This unique characteristic of the 780 Series ensures complete atomization over the entire burner capacity range.

780 Series Burner Cutaway View



Heavy and reclaimed oils must be heated to a viscosity of 80 - 90 SSU. The oil temperature should be held constant to avoid variation in the burner firing rates. By piping an oil return line to the oil recirculation connection provided, hot oil can be circulated up to and through the oil control valve at each burner. Heat tracing and insulation of piping are recommended for hot oil installations to minimize the 'cold' pipe area in the system and improve heavy or reclaimed oil atomization.

780 Series burners are suitable for installations requiring highly reliable, efficient, oil-only operation. The burner is suited for a wide variety of applications including kilns, furnaces, and dryers. Accessories available for the 780 Series include burner mounting brackets, furnace mounting plates, ignition tiles, ignition chambers, low fire switches, oil manifolds, and gas pilots. Though designed to use oil, 780 Series burners can be easily retrofitted for operation on any clean industrial fuel gas.

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