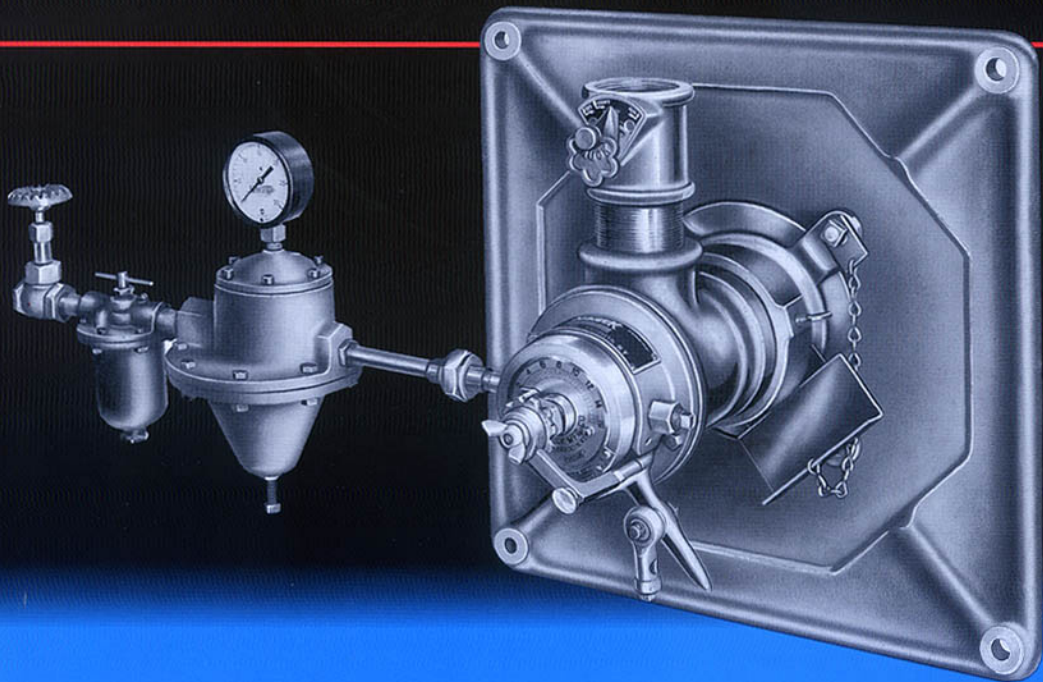


780 SERIES SELF-PROPORTIONING OIL BURNERS

The Hauck 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 sealed-in capacities from 200,000 Btu/hr to 14,000,000 Btu/hr. Higher capacities available with induced air.

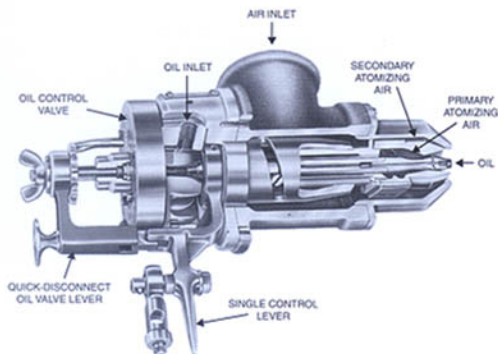


HAUCK



- BURNS ALL GRADES OF FUEL OIL
- SINGLE LEVER CONTROL
- ACCURATELY PROPORTIONS OIL AND AIR

- HIGHLY EFFICIENT OIL ATOMIZATION
- LOW PRESSURE AIR
- HIGHLY RELIABLE



780 Series Burner Cutaway View

The burners in the 780 Series are self-proportioning, oil-fired burners designed for highly efficient operation using low pressure atomizing air. The use of low pressure atomizing air results in lowered operating costs due to the lower 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. On multiple furnace applications, the 780 Series allows use of a series of small blowers rather than a large central blower. Using the 780 Series eliminates the need for a separate atomizing air blower, as the burner will operate with air pressures ranging from 16 psi to 32 psi.

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 insures complete atomization over the entire burner capacity range.

In contrast, many oil burners have atomizing air pressure that is not maintained at a constant pressure at the burner. This results in lost efficiency, wasted fuel and increased operating costs.

Heavy residual 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 oil atomization.

780 Series burners are suitable for installations requiring highly reliable, efficient, oil-only operation. Applications such as kilns, furnaces and dryers are among the many applications the 780 Series can be used. 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. 780 Series burners can be easily retrofitted for operation on any clean industrial fuel gas.



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