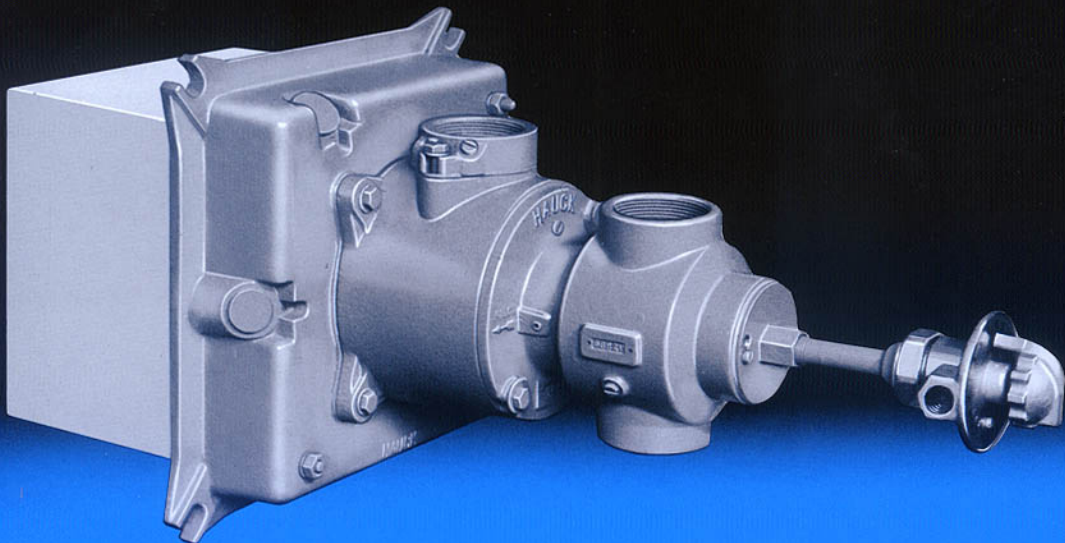

NMC NOZZLE MIX BURNERS COMBINATION FUEL FIRED

The NMC Series Nozzle Mix Burners are designed for applications requiring general purpose long life, low maintenance burners. The NMC performs equally well when firing on-ratio, with excess fuel, or with excess air. The NMC will burn any clean industrial gas, No. 2 oil or a combination of gas and oil. Preheated air (to 800°F) versions available. See Hauck sheet NMC-2 for burner capacities.



HAUCK



- HIGH CAPACITY
- WIDE TURNDOWN
- FLAME STABILITY

- EXCESS AIR ABILITY
- PREHEATED AIR CAPABILITY

OPERATION

Combustion air and fuel are channeled into the nozzle separately, permitting wide turndown while reducing the possibility of "flashback". Normally, all combustion air is supplied through the burner. When operating the NM180 and 1100 burners on gas, the oil atomizing air (primary air) must be used along with the secondary air. The NMC burners couple a uniform flame front with flame stability and retention over the entire operating range.

NMC burners are available for preheated air operation up to 800°F or for high temperature furnace application. Atomizing air is maintained at ambient conditions during preheated air operation.

NMC burners can be controlled manually or automatically. Automatic control normally employs a Hauck Ratio Regulator for each control zone to maintain air-fuel ratio. An alternate system uses control valves in each of the fuel and air lines, linking the valves to a single motor controller.

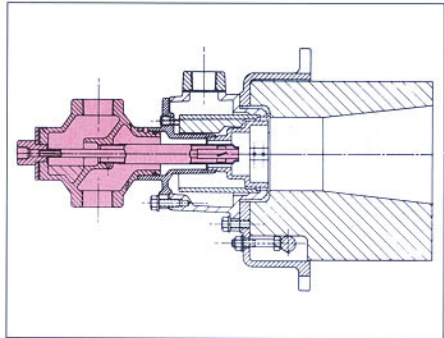
CONSTRUCTION

With no moving parts, the burner is virtually maintenance free. Parts subject to heat are either of heat resisting cast iron (chrome iron) or stainless steel. The tile is manufactured, dried and cured by Hauck. Special refractory materials and jacketed tiles can be supplied upon request.

MOUNTING

The burner, mounting plate, and refractory tile are shipped as an assembled unit. If the pilot and secondary air are to be in line, a 45° No. 1 spark ignited gas pilot, Model No. IPG2411, must be used with NMC210 thru 230 burners to avoid interference. (Alternately, if a 9 o'clock secondary air position is required and it is desired to use the standard No. 1 pilot, the mounting plate may be rotated so as to position the pilot at either the 12 o'clock or 3 o'clock position.) Each NMC is equipped with companion flanges on the main air connections to permit easy burner installation and removal and allow the mounting of an orifice plate for reduced air flows, if required.

TYPICAL CROSS SECTION



Section View of "NM" Burner Series showing the oil insert and air-gas body for combination firing. The straight gas fired "NMG" Series does not include the shaded section.

PILOT

The burner mounting plate includes a port for direct spark or gas pilot ignition system. Direct spark ignition is available for gas operation only. The pilot is required for initial burner ignition only and is not required to maintain ignition.

FLAME SUPERVISION

The NMC mounting plate is provided with a port for monitoring the pilot and main flame, using a UV scanner or other suitable device.



HAUCK MANUFACTURING COMPANY

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