

NMG/NMC

Nozzle Mix Gas/Oil Combination Burners



Features

- Burns most gaseous fuels and No. 2 oil
- Sealed-in capability
- Preheated air to 800°F (425°C)
- Available in 'swing-away' versions

Benefits

- Stable flame over entire operating range
- Wide turndown
- Low maintenance



The Hauck NM nozzle mix burners are designed for applications requiring a general purpose, long life, low maintenance burner. Fires most gaseous fuels, No. 2 oil or gas/oil combination. Preheated air models to 800°F (425°C).

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Combustion Excellence Since 1888

NMG/NMC-1

NMG/NMC

NOZZLE MIX GAS/OIL COMBINATION BURNERS



ADVANTAGES OF THE NMG/NMC

Stable Flame Over Entire Operating Range

Wide Turndown

Low Maintenance

Operation

Combustion air and fuel are channeled into the burner nozzle separately, permitting wide turndown. Since the burner nozzle is sealed into the refractory tile, all combustion air is supplied through the burner. The NM series burners couple a uniform flame front with flame stability over the entire operating range.

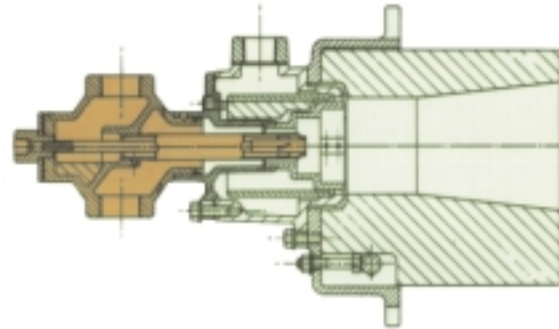
NM burners are available for preheated air operation up to 800°F (425°C) for high temperature furnace applications. Atomizing air is maintained at ambient conditions during preheated air operation.

NM burners can be controlled manually or automatically. Automatic control normally employs a Hauck Ratio Regulator for each control zone or burner 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.

Use of the burner in recuperative systems results in an economical approach to energy savings.

Construction

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



Section view of NM burner series showing the oil insert and air-gas body for combination firing. The NMG series does not include the dark shaded section.

Mounting

The burner, mounting plate and refractory tile are shipped as an assembled unit. The burner can be mounted to fire in any position - horizontal, vertical up or vertical down. The air connection can be rotated to any of three other positions.

Each NM burner 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.

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