



Lanemark Midco HMA2A series air heating burners are designed to provide a high efficiency, high turndown, low emission solution for air replacement or "make-up" air heating applications.

Typical Applications

- Paint spray booth air heating spray and bake cycles
- · Paint drying and curing ovens
- HVAC air replacement schemes for factories, warehouses, distribution centres...
- Crop dryers
- Print media dryers

Lanemark Midco HMA2A series burners operate directly within the heated air flow and can be located either upstream or downstream of the main air supply fans.

Key Features

- High heat output per unit length
- Low emissions suitable for manned/unmanned operations
- Wide acceptable process air velocity range
- High turndown (up to 30:1)
- Short flame length
- Common burner head for natural gas and propane

Lanemark's DbCalc® software is available to determine burner ratings and to design suitable duct profile plate arrangements at firing rates of up to 220 kW per 305 mm (750,000 Btu/h per ft) burner length.

Burners can be configured either as straight sections or in various "shapes" such as "H" or "I" designs by the use of compact elbows and tees, to fit within required duct dimensions.

Gas manifolds are available in both cast iron and aluminium which significantly reduces the weights of larger burner assemblies.

Specifications					
Heat Input	220 kW max/305 mm section (max 750,000 Btu/h/ft)				
Air Velocity	7.5 – 18 m/s (1500 – 3500 ft/min)				
Required Air Pressure	0.5 - 3.0 mbar (50 - 300 Pa) (0.2 - 1.2 in w.g)				
Turndown	30:1 max				
Typical flame length	Natural Gas : 280 – 405 mm (11 – 16 in) Propane : 205 – 330 mm (8 – 13 in)				
Efficiency	100% (LHV) or 92% (HHV)				
Burner Head Gas Pressure	Natural Gas : 8.8 mb – 19.5 mb (3.5 – 7.8 in w.g) Propane : 3.3 mb – 7.5 mb (1.3 – 3.0 in w.g)				
Burner Head Orientation	Parallel to process air flow				





Introducing Midco International's Direct-Fired Gas Burners

The Blue Flame Series Direct-Fired Gas Burners Two Stage Combustion Technology

Higher Temperature Rise

Wider Operation Range

Shorter, More Stable Flame

and Lower Overall Emissions

Midco International is proud to introduce our direct-fired gas burner, initiating a new era in direct-fired gas burner technology.

New Technology in Direct-Fired Gas Burners

Our innovative two stage combustion burner is not just a modification or improvement of the old, but a completely new approach to direct-fired combustion. The two-stage combustion improves control of the flame process, meets and exceeds the new ANSI Standards while outperforming the competition. By having two separate flames within the burner combustion zone, the flame is more stable, shorter and cleaner, permitting the reduction of emissions levels and allowing for higher temperature rise and higher tolerance to varying conditions when placed in the profile opening.



HMA-2

Available in Cast Iron or Aluminum Burner Sections



The Blue Flame Series Specifications

	NEXT COLOR OF THE	Pressure Drop Across Burner			Burner Turn- down Ratio	Air Velocities Across Burner
	NG 4.2 - 8" W.C. LP 1.6 - 3" W.C.		12,000 Btu/hr	NG 3.5" W.C. LP 2.0" W.C.		800 fpm to 4000 fpm ***

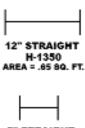
- * Firing rate is dependent on the pressure drop across the burner.
- ** Flame length depends on design pressure drop and is measured from the end of the baffle.
- *** For other operating velocities contact our Engineering Department.

New Technology for

Direct-Fired Applications

Plus Flexibility in Configuration

Straight, elbow and tee sections easily configure to desired capacity maximizing efficiency for installation and performance. Burners may be ignited by proven pilot or direct spark. Pilots are available for flame rectification or ultraviolet detection. Hot surface ignition systems are also available. Contact the factory for specifications.

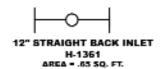








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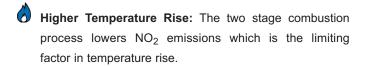




Call our OEM sales team for more information (773-604-8700) or visit our website at www.midcointernational.com

Features and Benefits





Increased Capacity: Up to 750,000 BTU'S per foot. (Higher BTU levels can be achieved if ANSI Z83 Standards for CO and NO₂ emissions are not of a concern. Process heaters can fire up to 1,000,000 BTU'S a foot or more.)

Increased Differential Pressure Drop and Higher Velocities: HMA-2 burners can operate between 0.05" to 1.4" W.C. differential pressure range or in air velocity between 800 fpm to 4000 fpm.

Flame Stability: Two stage combustion provides better flame stability and emission control, allowing for a shorter flame and easier profile configuration.

Reduced Shipping Costs: A smaller, lighter casting than the competition's, can cut your freight costs up to 50%.

Turndown: 30-1 turndown can easily be achieved with proper modulation control and valves. (Higher turndown possible depending on equipment design.)

¹ Consult factory for applications using butane fuels.