

DB BURNERS DATA

Lanemark DB series gas fired air heating duct burner systems are designed to provide a high efficiency, high turndown, low emission solution for air replacement or 'make-up' air heating applications.

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

Lanemark's DbCalc[®] software is available to determine burner ratings and to design suitable duct profile plate arrangements at firing rates of up to 205 kW per 305 mm burner length.



Model DB02 burner head / duct profile plate arrangement

KEY FEATURES

- High heat output per unit length
- Low emissions – suitable for manned / unmanned operations
- Wide acceptable process air velocity range

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

MODEL	MAX HEAT INPUT RANGE	BURNER LENGTH	TYPICAL GAS CONNECTION SIZE
DB01	73 - 103 kW	152 mm	1" BSP
DB02	146 - 205 kW	305 mm	1" BSP
DB03	220 - 308 kW	456 mm	1" BSP
DB04	293 - 410 kW	610 mm	1½" BSP
DB05	366 - 513 kW	762 mm	1½" BSP
DB06	440 - 615 kW	915 mm	1½" BSP
DB07	513 - 718 kW	1067 mm	2" BSP
DB08	586 - 820 kW	1220 mm	2" BSP
DB09	659 - 923 kW	1372 mm	2" BSP
DB10	730 - 1025 kW	1525 mm	2" BSP

For higher inputs, 146 - 205 kW gas input is available for each 305 mm of added burner length.

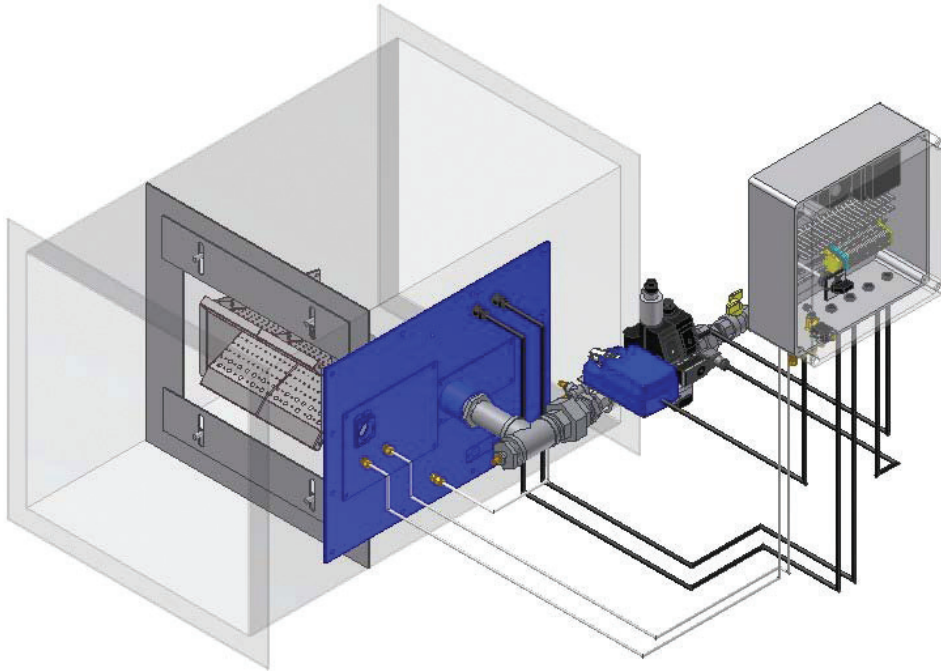
PRODUCT DESCRIPTION



Lanemark DB Duct Burner systems are supplied in a packaged or semi-packaged format. In a packaged format the Lanemark Midco HMA2A Series Burner is supplied fixed to a mounting plate, which is designed to be bolted to the side of the process air duct – normally supplied by others but available on request.

Each DB Duct Burner system can include a compact pre-piped modulating gas valve train and control panel that can either be supplied attached to the mounting plate or as a separate assembly to be installed on site at a convenient location within 3 metres of the burner location.

The control panel includes, as standard, burner controller, ignition transformer, differential air pressure switch and two 3-way air valves which enable an air pressure switch safety check to be carried out at burner start up. Additional control components, including temperature controllers, can also be included when requested.




Typical arrangement



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 weight of larger burner assemblies.

* Please refer to Lanemark Midco HMA2 Burner Data Sheet

SPECIFICATIONS	STANDARD EQUIPMENT	OPTIONS 
Fuels	Natural gas	Propane
Control voltages	230V / 1ph / 50 Hz	110V / 1ph / 50-60 Hz
Flame sensing	Flame electrode	UV scanner
Heat output control	Modulating (gas only) 4-20 mA / 0-10 V DC / 3 Wire Direct Drive	High / low or High / low / ultra low

Lanemark DB burners conform with relevant sections of European Standard EN 746 Part 2 or NFPA 86 for US applications.



All Lanemark burners benefit from Lanemark's BurnerCare customer support. BurnerCare services can include burner system installation, commissioning / start-up, system training, regular servicing and the supply of spare parts. BurnerCare can provide a service agreement plan incorporating a rapid response facility individually designed to ensure the continued, reliable operation of Lanemark equipment worldwide.

All illustrations are for guidance only. For reasons of continuous development, Lanemark Combustion Engineering Limited reserves the right to alter specifications without prior notice.



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