



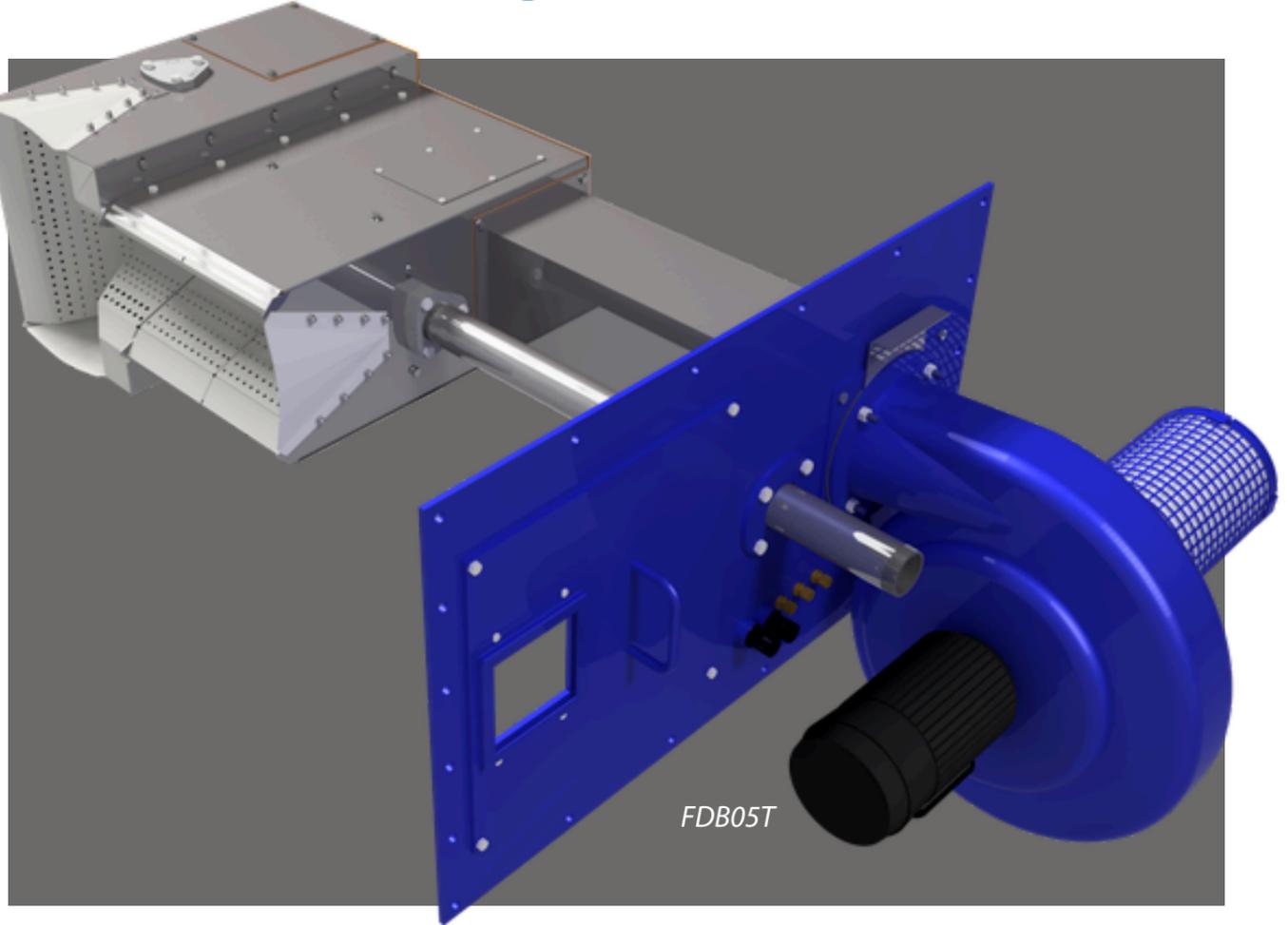
FDB-T BURNER DATA

Lanemark FDB-T series packaged burners provide versatile, high turndown (gas and air) control for process air heating applications such as convection ovens, dryers, and spray booths. They are designed to deliver maximum combustion efficiency, short flame lengths, and low emissions where performance and precision are critical.

FDB-T series direct-fired gas burners are designed for flexible installation. They can be mounted within an enclosure, integrated into a duct, or installed on the wall of a dryer, oven or process air heater. They can operate either inline or at a 90° angle to the process airflow.

FDB-T incorporates modulating gas and air control to maintain safe and efficient gas-to-air ratios across all operating conditions. Engineered for high combustion efficiency and low emissions, these burners are particularly well suited for applications with variable airflow.

Lanemark's DbCalc© software is available to determine burner ratings.



MODEL	MAX HEAT INPUT RANGE	BURNER LENGTH	TYPICAL GAS CONNECTION SIZE
FDB03T	18-525 kW	282 mm	1.5" BSP
FDB04T	18-600 kW	421 mm	1.5" BSP
FDB04T	25-700 kW	421 mm	2" BSP
FDB05T	30-875 kW	578 mm	2" BSP
FDB06T	30-925 kW	735 mm	2" BSP
FDB06T	45-1050 kW	735 mm	2" BSP
FDB07T	45-1225 kW	685 mm	CALL
FDB08T	45-1400 kW	842 mm	CALL
FDB09T	45-1575 kW	999 mm	CALL

TYPICAL APPLICATIONS



Paint spray booth air heating for spray and bake cycles

Paint drying and curing ovens

HVAC air replacement systems for factories, warehouses, and distribution centres

Crop dryers

PRODUCT DESCRIPTION

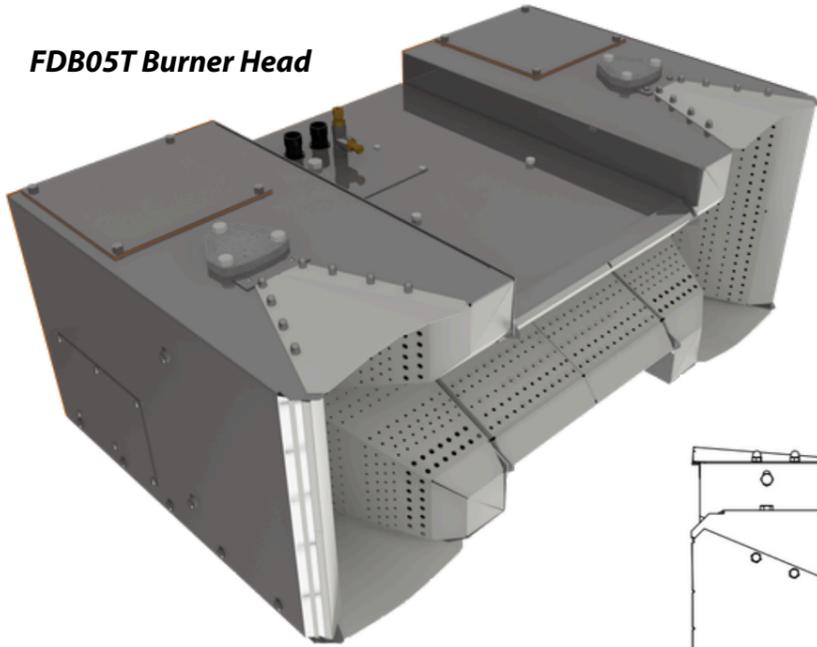


Lanemark FDB-T Duct Burner systems are available in packaged or semi-packaged formats. In the packaged version, the Midco VA burner housing is mounted on a plate designed to bolt to the process air duct or enclosure wall.

Each FDB-T system includes a compact pre-piped modulating gas valve train, control panel and combustion air fan that can be supplied either on the mounting plate as an assembly or with a separate panel which can be mounted within 3m of the burner.

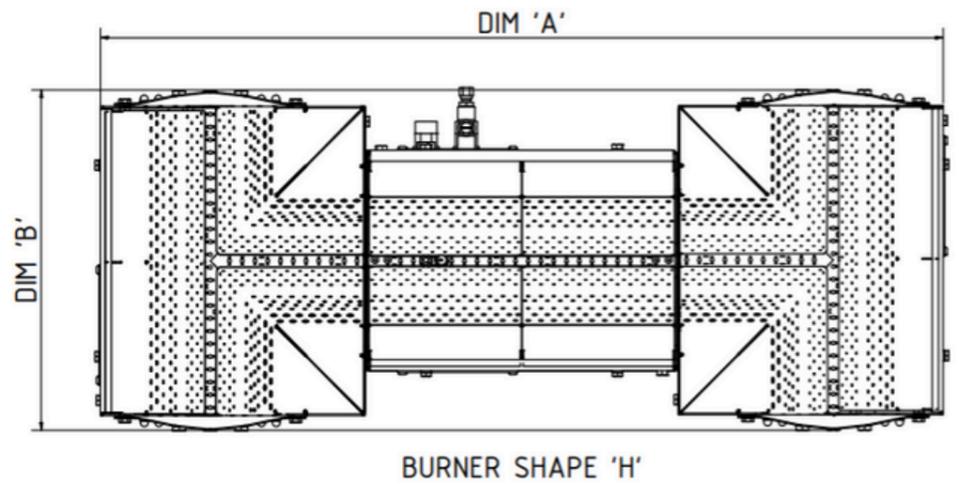
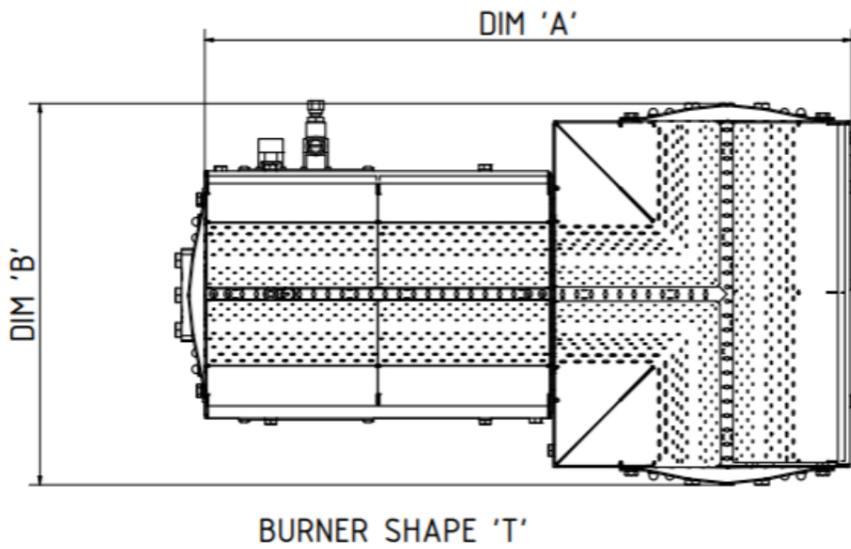
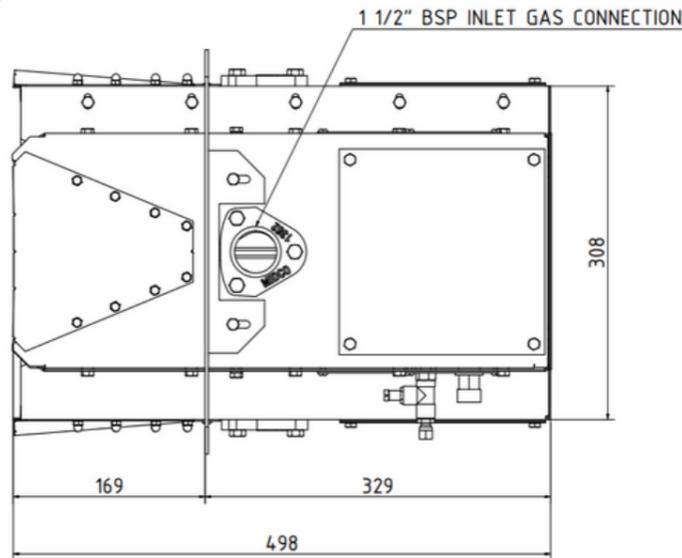
The control panel includes a burner controller, ignition transformer, differential air pressure switch, and two 3-way air valves for start-up safety checks. Additional controls can be added on request.

FDB05T Burner Head



Dimensions (mm, except where shown)

MODEL	A	B	BURNER SHAPE
FDB03T	282	340	T
FDB04T	421	340	T
FDB05T	578	340	T
FDB06T	735	340	T
FDB07T	685	340	H
FDB08T	842	340	H
FDB09T	999	340	H
FDB10T	1156	340	H



SPECIFICATIONS	STANDARD EQUIPMENT	OPTIONS
Fuels	Natural gas	Propane
Control voltages	230 V / 1 ph / 50 Hz	110 V / 1 ph / 50-60 Hz
Combustion air fan electrical supplies	400 V / 3 ph / 50 Hz or 230 V / 3 ph / 50 Hz	
Flame sensing	Flame electrode	UV Scanner
Heat output control	Modulating (gas only) 4-20 mA / 0-10 V DC / 3 Wire Direct Drive	Ultra low

Lanemark FDB burners are pre-wired / tested prior to despatch and conform with relevant sections of International Standard BS EN ISO 13577-2:2023 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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