



Pure and Simple Solutions

# The BB-Series

## Burner Boxes

- Maximum Direct-Fired Efficiency
- Superior Design Technology

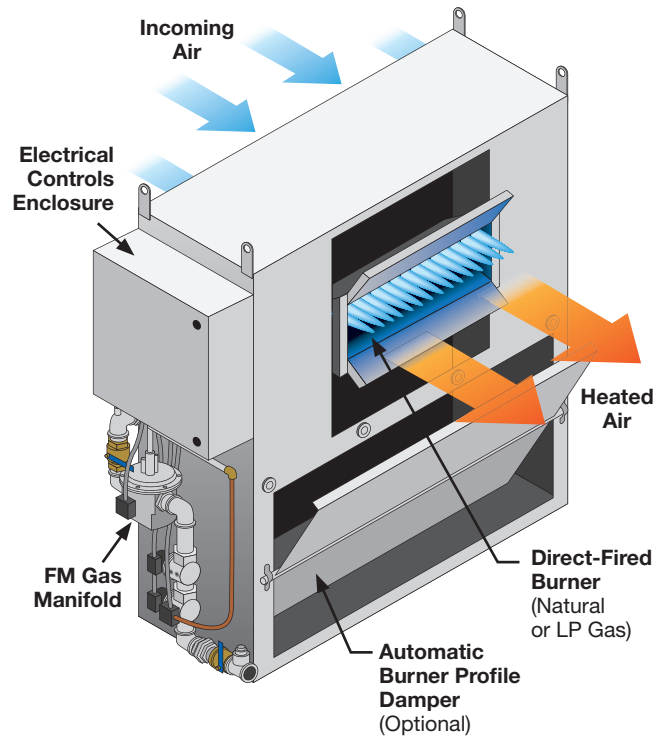
AbsolutAire® BB-Series Burner Boxes are direct gas-fired heating modules designed for duct or cabinet-mounted installation in a customer-supplied airflow system. Typically installed on the negative pressure side of the fan, burner box models are available to provide heating capacities from 200 MBH to 10,000\* MBH. These high-efficiency modules can help meet heating requirements in building air-management systems with airflow capacities from 3,000 to 100,000 CFM or more. They provide the benefits of direct-gas-fired heating in an easily customized module.

AbsolutAire BB-Series Burner Boxes feature robust, weather-resistant cabinet construction, 100% efficient direct-fired burners and many other key features. Each of these self-contained heating modules is supplied with advanced electrical and gas controls. All are completely wired, piped and factory-tested for proper performance, safe operation and reliability.

\*Higher MBH capacities are available.

## Standard Features

- Horizontal Configuration
- Heavy-Gauge Aluminized Steel Construction
- Industrial Siloxane Epoxy Painted Exterior with 5,500-Hour Salt Spray Rating
- Natural or Propane (LP) Gas Fuel Capability
- 100% Efficient Burner with Piloted Ignition
- FM Gas Manifold from 1" to 3" NPT
- Cast Aluminum Burner Manifold with Stainless Steel Mixing Plates
- NEMA 12 Electrical Controls Enclosure
- 115/1/60 with 24 Volt Controls
- Flame Safeguard System with UV Scanner and Remote Flame Reset
- High and Low Temperature Limit Switches
- Low Airflow Switch
- Discharge Temperature Controls
- Two-Year Parts / 90-Day Labor Warranty



- Flame Safeguard System
- High Temperature Limit Switch
- Air Flow Switch
- Low Temperature Limit Switch



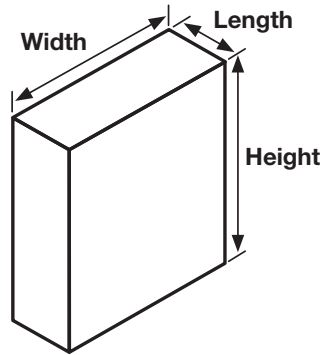
- Pilot Line
- Modulating Gas Valve (Up to 30:1 Turn-Down Capacity)
- Dual Safety Shut-Off Valves

## BB•Series Options

- Upright Vertical Configuration
- Insulated Cabinet / Double-Wall Construction
- Stainless Steel Construction
- Intake Hood with Galvanized Bird Screen
- Outside Air Filter Section
- Motorized Inlet Damper (Low Leak, Spring Return Options)
- Auto Profiler® Burner Profile Adjustment System
  - Automatic Burner Profile Damper
  - Pressure Sensor Tubes, Switch and Damper Actuator
- IRI Gas Manifold
- High Gas Pressure Regulator
- DDC Controls (BACnet MS/TP or LonWorks)
- BMS Interface Capability
- ETL UL508a Panel Certification

### AUTO PROFILER DAMPER SYSTEM

Automatic Burner Profile Damper



### BURNER BOX WITH INTAKE HOOD



## Models, Capacities, and Dimensions

AbsolutAire® BB-Series Burner Box Models	Typical Application		Manifold & Gas Inlet Pipe Size	Burner Box Dimensions (Inches)*		
	MBH Range	CFM Range		Width	Height	Length
BB550	200 to 550	3,000 to 4,500	1"	32	32	36
BB1100	200 to 1,100	4,600 to 7,000	1"	40	36	36
BB1700	400 to 1,700	7,100 to 13,000	1-1/4"	52	40	36
BB2800	750 to 2,800	13,100 to 25,000	1-1/2"	66	62	36
BB4400	1,400 to 4,400	25,100 to 45,000	2"	80	76	36
BB5500	2,400 to 5,500	45,100 to 60,000	2-1/2"	94	90	36
BB7700	3,300 to 7,700	60,100 to 80,000	3"	112	94	36
BB10000	6,600 to 10,000	80,100 to 100,000	3"	122	114	36

\*Dimensions are typical and can vary to accommodate the application.



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