

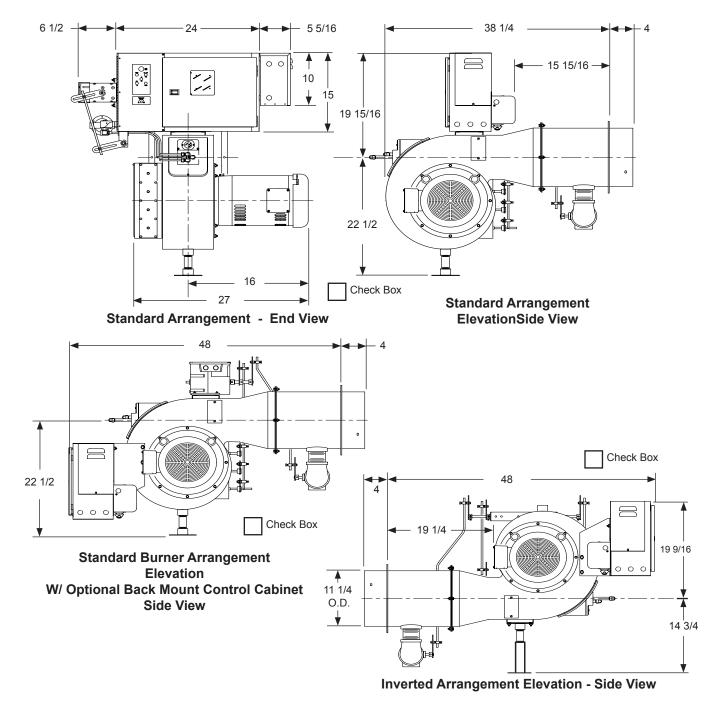
Model JB3 Forced Draft Burners

Specification & Dimensional Data (1400 - 12,600 MBH Input)

Fuels Burned and Control Systems

- Natural Gas, Propane, Digester or Mixed Gases
- Light #2 through Heavy #6 Fuel Oil
- Modulating Control System Linkageless or Linkage
- Control Circuit Requires 120 vac, 60 Hz, Single Phase Voltage Supply

Check appropriate box to indicated selected version. (Dimensions are +/- 1/4 inch)



Model JB3 burners are listed by Underwriters Laboratories, Inc. (UL / ULC). Also by the State of Massachusetts Fire Marshal, City of New York Board of Standards and Appeals, State of Minnesota and can be packaged to meet specific requirements of IRI, FM, GE GAP, NFPA, MIL spec. or other special insurance or local code requirements.

Model JB3 - Specification Data

(4) OTANDADD III			No. 2 Oil		Dii ed					No. 2 Oil		ie d
(1) STANDARD UL EQUIPMENT AND IMPORTANT OPTIONS		Gas	Pressure Atomized	Air Atomized	No. 4 - 6 Oil Air Atomized			ANDARD UL EQUIPMENT ND IMPORTANT OPTIONS	Gas	Pressure Atomized	Air Atomized	N0. 4 - 6 Oil Air Atomized
General	Motor, Fan and Air Inlet Control	Х	Х	Х	Х			Main Manual Shutoff Valve	Х			
	Air Flow Switch	Х	Х	Х	Х			Main Safety Shutoff Valve	Χ			
	(2) Burner Mounted Control Panel,	×	X	×	X			Second Safety Shutoff Valve	Χ			
	Switch and Four Indicator Lights		<u> </u>	<u> </u>		Fuel		Main Gas Regulator	Х			
	Flame Safety Control	Х	Х	Х	Х	130 6	28 F	Gas Checking Valve	Х			
	Ultra Violet Scanner	Х	Х	Х	Х	ت	ם פ	High and Low Gas Pressure Switches	Χ			
	Motor Starter with Overloads	Х	Х	Х	Х		Γ	Metering Valve (modulating systems)	Х			
	Fuel Selector Switch	Dual Fuel Burners Only						Normal Open Vent Valve (above 12,500 MBH)	Х			
lgnition	Proven Gas Pilot Ignition	Х	Х	Х	Х		П	Oil Drawer Assembly with Diffuser		Х	Х	Х
	Pilot Solenoid Gas Valve	Х	Х	Х	Х		ſ	Oil Nozzles		Х	Х	Х
	Pilot Gas Regulator & Manual Valve	Х	Х	Х	Х			Oil Heater with Integral Thermostat				Х
	Pilot Gas Ignition Transformer	Х	Х	Х	Х			Remote Oil Pump		Х	Opt.	Opt.
								Two Safety Shutoff Valves		Х	Х	Х
						<u>a</u>		High Oil Temperature Switch				Х
						 	ĒΓ	Low Air Atomizing Switch				Х
Options	Inverted Housing	Х	Х	Х	Х			Low Oil Pressure Switch		Х	Х	Х
	Alternate Control Cabinet Positioning	Х	Х	Х	Х			Oil Pressure Gauge		Х	Х	Х
	Remote Control Panel	Х	Х	Х	Х		ſ	Oil Metering Valve		Х	Х	Х
	Fuel Metering CAM-NETIC II	Х	Х	Х	Х			Future Gas Combustion Head		Opt.	Opt.	Opt.
	Linkageless	Х	Х	Х	Х			Air Compressor			Х	Х

^{1.} The configuration of each unit will vary with specific job requirements such as input rating, electrical specification and special agency approval codes. The above chart shows those items standard to a basic burner plus a few options that may be added.

^{2.} Indicator lights are "Power On", "Call for Heat", "Fuel On" and "Alarm" for hard wired panels. "Alarm", "Low Water", "Power", "Call for Heat", "Ignition On", and "Fuel On" for circuit board light panels.

Model JB3 - Sizing and Application Data (contact Webster for complete information)												
Model	Maximum Furnace Pressure	Burner Firing Capability Range			Burner	Gas Train		#2 Oil Pump Motor HP		#4 - 6	Air	
Number		Gas scfh	#2 Oil gph	#4-6 Oil gph	Motor HP	Pipe Size	Inlet Press	Pressure Atomizing	Air Atomizing	Pump Motor HP	Compressor Motor HP	
JB3-30	3.5	1400 / 6300	10.2 / 45	10 / 42	3	2 1/2"	12 / 27"	1	Optional	Optional	2	
JB3-50	3.5	1400 / 8300	11 / 59.2	10 / 55.3	5	3"	15 / 27"	1 1/2	Optional	Optional	2	
JB3-75	3.5	1600 / 10500	12.3 / 75	11 / 70	7 1/2	3"	23 / 27"	1	Optional	Optional	2	
JB3-100	3.5	1800 / 12600	20.3 / 90	12 / 84	10	3"	2-5 psi	1	Optional	Optional	2	

The above maximum ratings are based on 0 furnace pressure, an altitude of 1000 feet, 90^oF air temperature and 60 HZ electrical supply. Use the following corrections for higher temperatures and altitude. Capacity by 17% for 50 Hertz.

Capacity decreases by 4% for each 1000 feet above 1000 foot altitude.

Capacity decreases by 6% for each 1 inch of furnace pressure.

Capacity decreases by 2% for each 10^OF increase in air temperature over 90^OF.

Gas input ratings based on 1000 BTU/cu ft. and 0.64 specific gravity. Sizes and pressure will vary with gas.

Oil input ratings are based on 140,000 BTU/gal. for ASTM #2 fuel oil and 150,000 BTU/gal for ASTM #4-6 fuel oil.

The vessel draft must be between -0.1 and +0.1 wc.

Essential Ordering Information and Data:

Power Supply - Confirm 120-60-1 for control circuit and electrical supply for burner motor(s) (voltage, frequency and phase).

Describe Boiler or Heater to be Fired - Including the manufacturer, model number, furnace pressure and furnace size.

Firing Rate - Define firing rates in MBH for gas and GPH for oil.

Fuel to be Burned - Type of gas and/or oil, including the BTU value.

Approval Agency - UL, FM, IRI (GE GAP), CSD-1, NFPA, Mil spec and local codes, if applicable.

Flame Safety Control Preferred - Honeywell or Fireye controls.

Gas Train Components Preferred - ASCO, Honeywell or Siemens

Control System, Modulation, Linkageless

Required Options - Mounting plate, operating controls, limit controls, etc.

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