

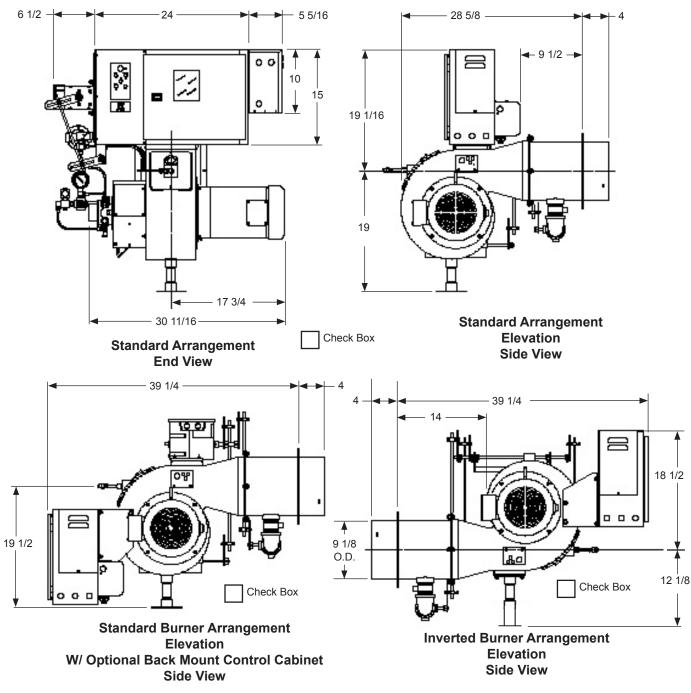
Model JB2 Forced Draft Burners

Specification & Dimensional Data (900 - 6000 MBH Input)

Fuels Burned and Control Systems

- Natural Gas, Propane, Digester or Mixed Gases
- Light #2 through Heavy #6 Fuel Oil
- Low Fire Start, Low-High-Low, Modulating or Micro Modulation
- Control Circuit Requires 120 vac, 60 Hz, Single Phase Voltage Supply

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



Model JB2 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 JB2 - Specification Data (900 - 6000 MBH Input)

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Duel Fuel Burners Only

MOC		Dat	a	(30)		- 00	oo mbri input)		0	
			No. 2 Oil						No. 2 Oil	
(1) STANDARD UL EQUIPMENT AND IMPORTANT OPTIONS		Gas	Pressure Atomized	Air Atomized			TANDARD UL EQUIPMENT ND IMPORTANT OPTIONS	Gas	Pressure Atomized	Air
	Motor, Fan and Air Inlet Control	Х	Х	X	1		Main Manual Shutoff Valve	Х		Aton
General	Air Flow Switch	Х	X	X]		Main Safety Shutoff Valve	Х		
	(2) Burner Mounted Control Panel, Switch and Indicator Lights	x	x	x		lel	Second Safety Shutoff Valve	Х		
							Main Gas Regulator	Х		
	Flame Safety Control	Х	Х	Х		ш	Gas Checking Valve	Х		
	Ultra Violet Scanner	Х	Х	X		Gas	High and Low Gas Pressure Switches	Х		
	Motor Controller (single phase voltage)	Х	X	X			Metering Valve (modulating systems)	Х		

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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 "Flame Fail" for hard wired panels. "Alarm", "Low Water", "Power", "Call for Heat", "Ignition On", and "Fuel On" for circuit board light panels.

3. Maximum rate for direct spark is 20 GPH at low fire or 35 GPH at high fire. (standard on straight oil burners, pressure atomized)

Model JB2 - Sizing and Application Data (contact Webster for complete information)

Model Number	Maximum Furnace Pressure	Burner Firing Capability Range		Burner Motor HP		Gas Train		Oil Pump Motor HP		Air Compressor Motor HP	
					Pipe Size	(3) Inlet Press (in wc)		Pressure	Air		
		Gas scfh	#2 Oil gph	111		LFS, LHL	Modulation	Atomizing	Atomizing		
JB2-07	2	900 / 2800	10 / 20	3/4	1 1/2"	10 / 14"	13"	Integral	N/A	N/A	
JB2-10	2	900 / 3500	10 / 25	1	2"	8 / 14"	9 / 14"	Integral	Optional	2	
JB2-15	2	900 / 3500	10 / 25	1 1/2	2"	8 / 14"	9 / 14"	Integral	Optional	2	
JB2-20	2	1200 / 4200	12 / 30	2	2"	(4) 12 / 14"	(3) 13 / 14"	Integral	Optional	2	
JB2-30	2.5	1200 / 5300	12 / 37.8	3	2 1/2"	N/A	13 / 14"	3/4	Optional	2	
JB2-50	2.5	1200 / 6000	12 / 42.8	5	2 1/2"	N/A	2-5 psi	3/4	Optional	2	
		0	0	0	n	0					

3. Lower pressures may apply to reduced inputs.

4. 11-14" with IRI and LFS or LHL. 12-14" with IRI and modulation.

Normally Open Vent Valve

Two Safety Shutoff Valves

Low Air Atomizing Switch

using remote oil pump)

Oil Pressure Gauge

Air Compressor

system)

Oil Nozzles

Oil Drawer Assembly with Diffuser

Integral Oil Pump (JB2-07 to JB2-20)

Remote Oil Pump (JB2-30 to JB2-50)

Low Oil Pressure Switch (STD when

Oil Metering Valve (modulating

Future Gas Combustion Head

The above maximum ratings are based on 0 furnace pressure, an altitude of 1000 feet, 90°F air temperature and 60 HZ electrical supply. Use the following corrections for higher temperatures and altitude. Capacity decreases 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°F increase in air temperature over 90°F.

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

Oil input ratings are based on 140,000 BTU/gal. for ASTM #2 fuel oil.

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

Motor Starter w/Overloads (3 PH volt)

Fuel Selector Switch

Proven Gas Pilot Ignition

Pilot Solenoid Gas Valve

Direct Spark Oil Ignirtion

Direct Spark Oil Ignition

Alternate Control Cabinet

Fuel Metering CAM-NETIC II

Remote Control Panel

Transformer

Positioning

Inverted Housing

gnition

Options

(1) JB2-30 and JB2-50

Pilot Gas Ignition Transformer

Pilot Gas Regulator & Manual Valve

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/ITT, Honeywell or Landis Control System - ON-OFF, Low Fire Start, Low High Low, Modulation, Posi-Control. Required Options - Mounting plate, limit controls, etc.

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