## Model JBSX2 Forced Draft Burners



Specification & Dimensional Data (48 - 131 BHP Input) - High TD, Low NOx Forced Draft

- Turn downs to 10:1 gas, 8:1 oil
- Natural Gas, Propane, Digester, Waste Gas or Mixed Gas Firing
- #2 #6 Oil Firing (#6 starts at 100 HP)
- Pressure (return flow nozzle) or Air Atomized (Above 80 HP) Oil Firing
- Linkage or Parallel Positioning Controls

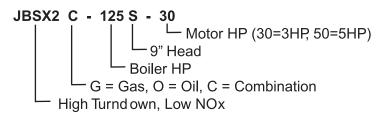
## Sizing Details

- The JBSX2 size can be estimated from the boiler HP and furnace pressure below.
- Sizing is based on a max air temperature of 90 °F, 60 Hz, altitude under 1000 ft.
- Higher altitude can be corrected by adding 1" furnace pressure for each 1500 feet over 1000 feet, up to 5500 ft.
- For furnace pressures higher then shown, altitudes over 5500 ft, 50 Hz or smaller furnaces, contact factory.
- Adding a silencer will reduce the available furnace pressure by about 1/2" on the JBSX2.

The JBSX2 is available with an "S" (9") head and three fan / motor combinations. The chart below shows how these can be applied.

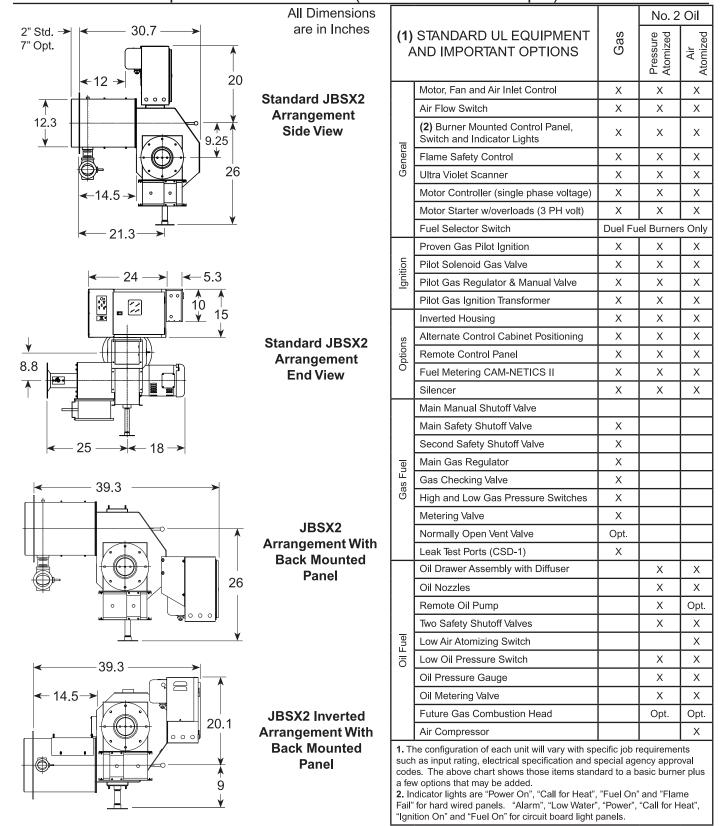
UL Listed Product			Standard Turndown			Maximum Turndown			Std Motor		Larger Motor		Larger Motor		
		Rated Input		#2 Oil			#2 Oil			Std	Max	Larger	Max.	Larger	Max
JBS Model #	ВНР	Gas MBH	Oil GPH	Gas	Press Atom	Air Atom	Gas	Press Atom	Air Atom	Motor HP	Furn Press	Motor HP	Furn Press	Motor HP	Furn Press
JBSX2* - 48 S	48	2000	14.3	3.0	2.5	4.8	6.0	2.5	4.8	2	1.6	3	3.5	NA	NA
JBSX2* - 50 S	50	2092	14.9	3.0	2.5	5.0	6.2	2.5	5.0	2	1.5	3	3.5	NA	NA
JBSX2* - 60 S	60	2511	17.9	3.0	2.5	5.0	7.5	2.5	6.0	2	1.3	3	3.3	NA	NA
JBSX2* - 70 S	70	2929	20.9	3.0	2.5	5.0	8.7	2.5	7.0	2	0.9	3	3.0	NA	NA
JBSX2* - 72 S	72	3000	21.4	3.0	2.5	5.0	8.9	2.5	7.1	2	0.8	3	2.7	5.0	4.7
JBSX2* - 75 S	75	3138	22.4	3.0	2.5	5.0	9.3	2.5	7.5	2	0.7	3	2.1	5.0	4.7
JBSX2* - 76 S	76	3200	22.9	3.0	2.5	5.0	9.5	2.4	7.6	2	0.7	3	2.0	5.0	4.7
JBSX2* - 80 S	80	3348	24.0	3.0	2.5	5.0	10.0	2.5	8.0	2	0.3	3	1.3	5.0	4.7
JBSX2* - 84 S	84	3500	25.0	4.0	2.5	5.0	10.0	2.5	8.0	3	0.8	5	4.3	NA	NA
JBSX2* - 90 S	90	3766	26.9	4.0	2.5	5.0	10.0	2.5	8.0	5	3.9	NA	NA	NA	NA
JBSX2* - 96 S	96	4000	28.9	4.0	2.5	5.0	10.0	2.5	8,0	5	3.5	NA	NA	NA	NA
JBSX2* -100 S	100	4184	30.0	4.0	2.5	5.0	10.0	2.5	8.0	5	3.0	NA	NA	NA	NA
JBSX2* -108 S	108	4500	32.1	5.0	3.0	5.0	10.0	3.0	8.0	5	2.5	NA	NA	NA	NA
JBSX2* -110 S	110	4600	32.9	5.0	3.0	5.0	10.0	3.0	8.0	5	2.3	NA	NA	NA	NA
JBSX2* -120 S	120	5020	35.9	5.0	3.0	5.0	10.0	3.0	8.0	5	1.3	NA	NA	NA	NA
JBSX2* -125 S	125	5250	37.5	5.0	3.0	5.0	10.0	3.0	8.0	5	0.8	NA	NA	NA	NA
JBSX2* -130 S	130	5440	38.9	5.0	3.0	5.0	10.0	3.0	8.0	5	0.4	NA	NA	NA	NA
JBSX2* -131 S	131	5500	39.3	5.0	3.0	5.0	10.0	3.0	8.0	5	0.4	NA	NA	NA	NA

## **Model Number Designation:**



- Gas input based on HHV = 1000, 0.64 specific gravity. Gas Train requirements will vary with insurance and job site conditions.
- Oil input based on #2 oil at 140,000 BTU/gal. Heavy oil rates will be lower, based on 150,000 BTU/gal. (Must be less than0.5 wt % sulfur.

Fax: 620-221-9447



## **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 Siemens
- NOx Level Requirements. Required Options Mounting plate, limit controls, etc.