Model JBSX3 Burner Specifications

Specification & Dimensional Data (100 - 325 BHP) - High Turndown Forced Draft

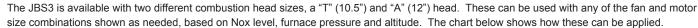
- Turndowns to 12:1 gas, 10:1 oil
- Natural, Propane, Digester, Waste Gas or Mixed Gas Firing
 #2 #6 Oil Firing (FGR must be off when firing #6 oil)
 Pressure (return flow nozzle) or Air Atomized Oil Firing

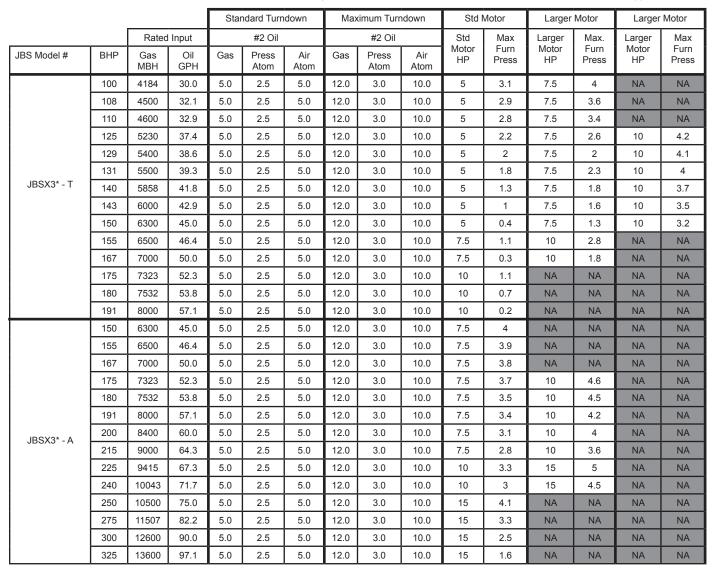
A Selas Heat Technology Company

- Linkage or Parallel Positioning - Full Modulation
- UL Listed

Sizing Details

- The JBSX size can be estimated from the Boiler HP and furnace pressure below.
- Contact factory for 50 Hertz applications.
- For Firetube, Watertube, Firebox and other vessel applications.





- Gas input based on HHV = 1000, 0.64 specific gravity. Gas Train requirements vary with insurance and 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.
- Heavy oil must have <0.5% sulfur to be used on this burner.

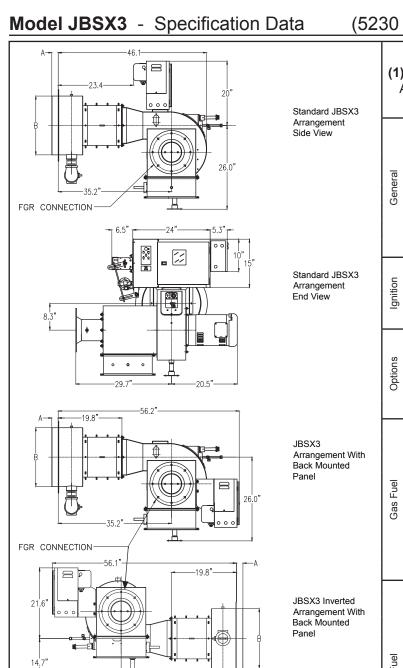
Model Number Designation: JBSX3 * - A 150

T= 10.5" Head, A=12" Head

G = Gas. O = Oil. C = Combination

Fax: 620-221-9447 Webster Combustion Technology Ph: 620-221-7464 Bulletin 950208 www.webstercombustion.com





(1) STANDARD UL EQUIPMENT AND IMPORTANT OPTIONS		Gas	No. 2 Oil	
			Pressure Atomized	Air Atomized
General	Motor, Fan and Air Inlet Control	Х	Х	Х
	Air Flow Switch	Х	Х	Х
	(2) Burner Mounted Control Panel, Switch and Indicator Lights	Х	Х	Х
	Flame Safety Control	Х	Х	Х
	Infra-red Scanner	Х	Х	Х
	Motor Starter w/overloads (3 PH volt)	Х	Х	Х
	Fuel Selector Switch	Dual Fuel Burners Only		
Ignition	Proven Gas Pilot Ignition	Х	Х	Х
	Pilot Solenoid Gas Valve	Х	Х	Х
	Pilot Gas Regulator & Manual Valve	Х	Х	Х
	Pilot Gas Ignition Transformer	Х	Х	Х
Options	Inverted Housing	Х	Х	Х
	Alternate Control Cabinet Positioning	Х	Х	Х
	Remote Control Panel	Х	Х	Х
	Fuel Metering CAM-NETICS II	Opt.	Opt.	Opt.
	Silencer	Opt.	Opt.	Opt.
Gas Fuel	Main Manual Shutoff Valve	Х		
	Main Safety Shutoff Valve	Х		
	Second Safety Shutoff Valve	Х		
	Main Gas Regulator	Х		
	Gas Checking Valve	Х		
	High and Low Gas Pressure Switches	Х		
	Metering Valve	Х		
	Normally Open Vent Valve	Opt.		
	Leak Test Ports (CSD-1)	Х		
Oil Fuel	Oil Drawer Assembly		Х	Х
	Oil Nozzles		Х	Х
	Remote Oil Pump		Х	Opt.
	Two Safety Shutoff Valves		Х	Х
	Low Air Atomizing Switch			Х
	Low Oil Pressure Switch		Х	Х
	Oil Pressure Gauge		Х	Х
	Oil Metering Valve		Х	Х
	Future Gas Combustion Head		Opt.	Opt.
	Air Compressor			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 "Flame Fail" for hard wired panels. "Alarm", "Low Water", "Power", "Call for Heat", "Ignition On" and "Fuel On" for circuit board light panels.

Essential Ordering Information and Data:

10.5" Head (T), 2" Insert

10.5" Head (T), 7" Insert

12" Head (A), 2" Insert

12" Head (A), 7" Insert

- 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.

В

2.0 14.5

7.0 14.5

2.0 18.3

- Flame Safety Control Preferred Honeywell or Fireye controls. Gas Train Components Preferred ASCO / ITT, Honeywell or Siemens
- Required Options Mounting plate, limit controls, etc.