Model JBSX3 Forced Draft Burners



Specification & Dimensional Data (125 - 325 BHP Input) - High Turndown Forced Draft

High Turndown Forced Draft

- Turndowns to 12:1 gas, 10:1 oil
- Natural Gas, Propane, Digester, Waste Gas or Mixed Gas Firing
- #2 #6 Oil Firing
- Pressure (return flow nozzle) or Air Atomized Oil Firing
- Linkage or Parallel Positioning Controls
- Induced FGR for stable combustion with NOx to 12ppm
- Full Modulation
- For Firetube, Watertube, Flextube, Cast Iron and other vessel applications.

Capacity Ratings

- The JBSX3 offering is shown below. Different fans and motors (5 to 15 hp) can be used as needed.
- Rated input is based on a max air temperature of 90°F, 60 Hz, altitude under 1000 ft.
- Contact factory for 50 hertz applications and specific boiler applications.

The JBSX3 is available with two different combustion heads, a "T" (10.5") and "A" (12") head. These can be used with any of the five fan and motor size combination as needed. The chart below shows how these can be applied.

				Standard Turndown			Maximum Turndown		
IDOYO Market #	DUD	Rated Input		Gas	#2 Oil Press Atom	#2 Oil Air Atom	Gas	#2 Oil Press Atom	#2 Oil Air Atom
JBSX3 Model #	BHP	Gas MBH	Oil GPH						
JBSX3* - 125 T	125	5230	37.4	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 129 T	129	5400	38.6	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 131 T	131	5500	39.3	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 140 T	140	5858	41.8	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 143 T	143	6000	42.9	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 150 T	150	6300	45.0	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 155 T	155	6500	46.4	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 167 T	167	7000	50.0	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 175 T	175	7323	52.3	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 180 T	180	7532	53.8	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 191 T	191	8000	57.1	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 200 A	200	8400	60.0	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 215 A	215	9000	64.3	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 225 A	225	9415	67.3	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 240 A	240	10043	71.7	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 250 A	250	10500	75.0	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 275 A	275	11507	82.2	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 323 A	323	13500	96.4	5.0	2.5	5.0	12.0	3.0	10.0
JBSX3* - 325 A	325	13600	97.1	5.0	2.5	5.0	12.0	3.0	10.0



- 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.
- Heavy oil must have <0.5% sulfer to be used on this burner.



No. 2 Oil

Air Atomized

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Pressure Atomized

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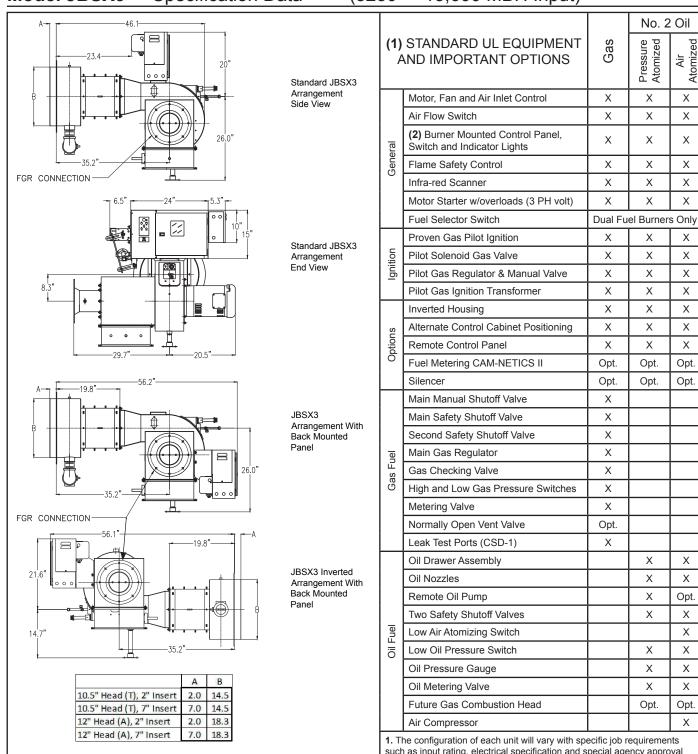
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such as input rating, electrical specification and special agency approval codes. The above chart shows those items standard to a basic burner plus a few options that may be added.

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
- Required Options Mounting plate, limit controls, etc.

^{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.