

## Model JBSX3 Forced Draft Burners

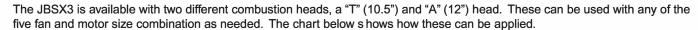
Specification & Dimensional Data (125 - 325 BHP Input) - High Turndown Forced Draft

## **High Turndown Forced Draft**

- Turn downs to 12:1 gas, 10:1 oil
- Natural Gas, 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
- 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.



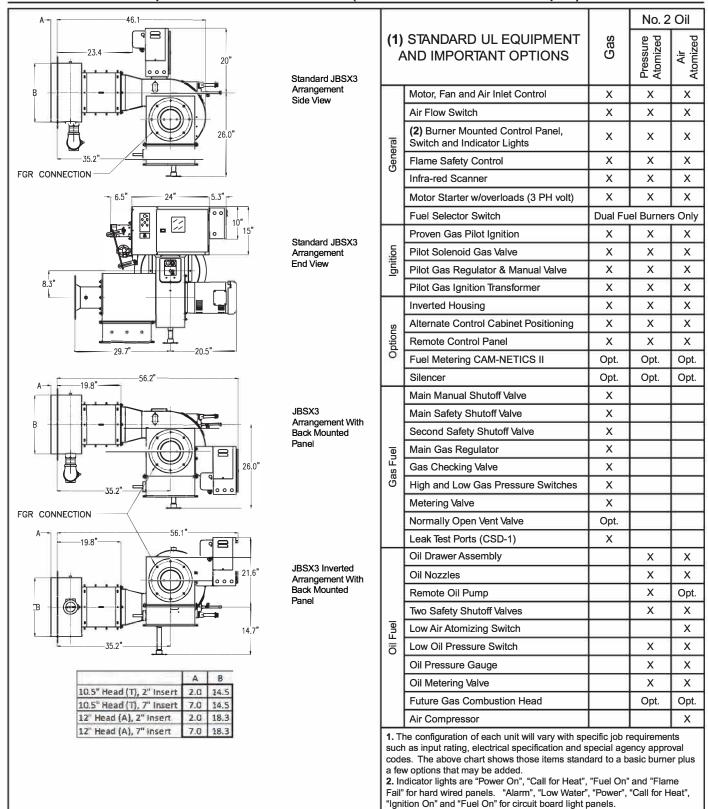
|                |           |             |         | Standard Turndown |                      |                    | Maximum Turndown |                      |                    |
|----------------|-----------|-------------|---------|-------------------|----------------------|--------------------|------------------|----------------------|--------------------|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

Model Number Designation: JBSX3 C - 175 T - 30

L Motor HP (30=3HP, 50=5HP)
T= 10.5" Head, A= 12" Head
Boiler HP
G = Gas, O = Oil, C = Combination

- 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.





## **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.