

REGENERATIVE GAS BURNERS

JSR-050

JSR-100

JSR-200

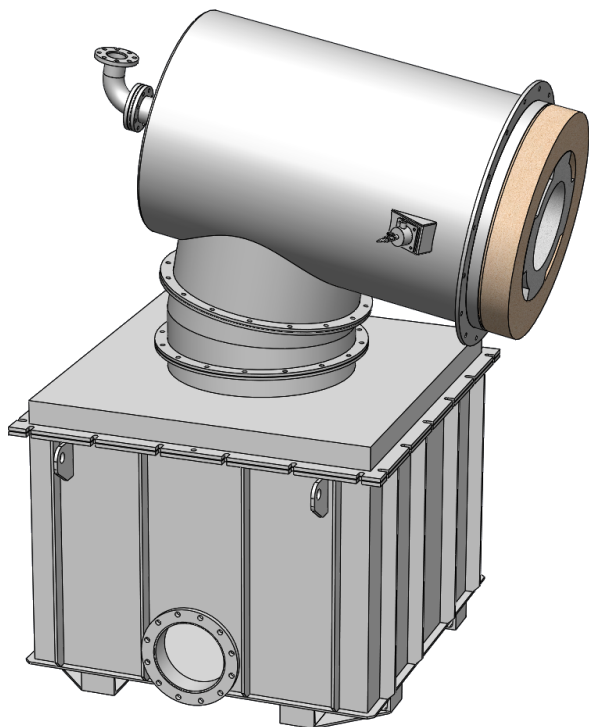
JSR-300

JSR-400

JSR-500

JSR-600

JSR-700



FEATURES

- Low NOx type.
- Exceptionally high heat recovery.
- Application temperatures to 1500 °C.
- Advanced, unique design giving simple construction.
- 85% Energy Recovery.

APPLICATIONS

- Aluminum Quick Melting Applications.
- Aluminum Heat Treatment Furnaces.
- High Temperature Industrial Furnaces.
- Heating-Up Furnaces.
- Reheating Furnaces.
- Heating-Up Furnaces for Hot Forging.

JSR SERIES

REGENERATIVE GAS BURNERS DIRECT FIRED VERSION

The data contained below is a summary. Curves showing total burner pressure drop vs process temperature are included in this data sheet. However, please refer to JSE for additional data.

TECHNICAL DATA

MODEL	NOMINAL CAPACITY		AIR PRESSURE @15°C (mb)*	GAS PRESSURE		MAXIMUM CAPACITY	
	(x10 ³ kcal/h)	(kW)		TUBE	TUBE+NOZZLE (mb)**	(x10 ³ kcal/h)	(kW)
JSR-050	500	580	45		10-45	500	580
JSR-100	1,000	1,160	45		10-45	1,000	1,160
JSR-200	2,000	2,320	45		10-45	2,000	2,320
JSR-300	3,000	3,480	45		10-45	3,000	3,480
JSR-400	4,000	4,640	45		10-45	4,000	4,640
JSR-500	5,000	5,800	45		10-45	5,000	5,800
JSR-600	6,000	6,960	45		10-45	6,000	6,960
JSR-700	7,000	8,120	45		10-45	7,000	8,120

Minimum supply pressure required measured at the burner under the temperature conditions quoted.

* Air pressure will vary with degree of heat recovery and pre-heat temperature. See pressure drop curves further on in this data sheet.

** Some increase in gas pressure should be allowed for on the nozzle version of up to 50%.

MODEL	TOTAL BURNER WEIGHT (kg)	APPROXIMATE FLAME LENGTH	
		AIR @15°C (m)	AIR @1000°C (m)
JSR-050	600	2.0	1.3
JSR-100	1,000	2.5	1.7
JSR-200	1,250	3.0	2.5
JSR-300	1,550	3.5	3.0
JSR-400	2,100	4.5	4.1
JSR-500	2,700	4.9	4.4
JSR-600	3,300	5.3	5.0
JSR-700	3,900	5.9	5.4

Flame lengths are based on open tube gas injector for the JSR 050-200 and the disc lance – disc setting maximum – for the JSR 300-700. The data above is based on Natural Gas Net. CV 9500 kcal/Nm³.

The descriptions and specifications are subject to change without notice.