

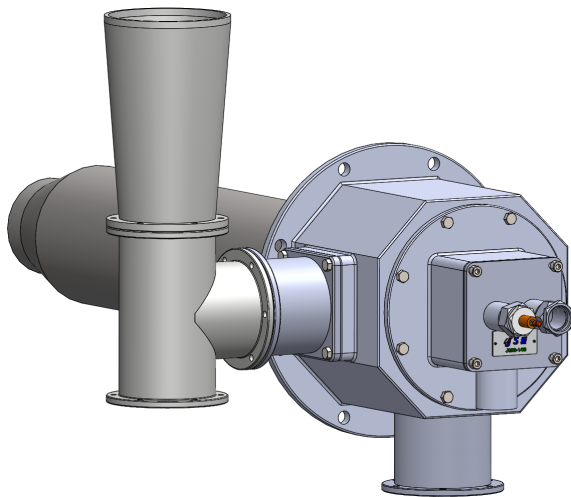
SELF RECUPERATIVE GAS BURNERS

JSRB-030 JSRB-050
JSRB-080 JSRB-150
JSRB-200 JSRB-400

| GENERAL INFORMATIONS |

The "JSRB" self recuperative gas burner series uses the preheated combustion air from exhaust gas by heat exchange. This blown-air burner can operate with natural gas, LPG, lean gas and gas with low calorific power (on request). It was designed for the installation in all the process in which it is necessary to obtain a deeply oxidizing combustion to limit working temperature. The completely automatic working allows on-off regulations, high/low flame, air/gas modulating. The last allows to obtain turn down ratio until 10:1. The maximum thermal potentiality is 511kW (440,000kcal/h) while the minimum potentiality can come up to 5.8kW(5,000kcal/h).

Combustion air temperature can be changed from room temperature to 700 °C by heat exchange between inner and outer tube during the firing. A particular care has been dedicated to CO and NOx emissions produced by combustion process. The burner has ignition and flame revelation electrodes, pressure switch to measure air and gas instantaneous flows, flame indicating light.



FEATURES

- Two stage combustion for low NOx & CO emission.
- Suitable for direct heating or indirect heating.
- Suitable for all kind of clean fuel gas.
- Application temperature to 1,300 °C.
- Direct ignition and flame detecting with flame rod or U.V. cell.

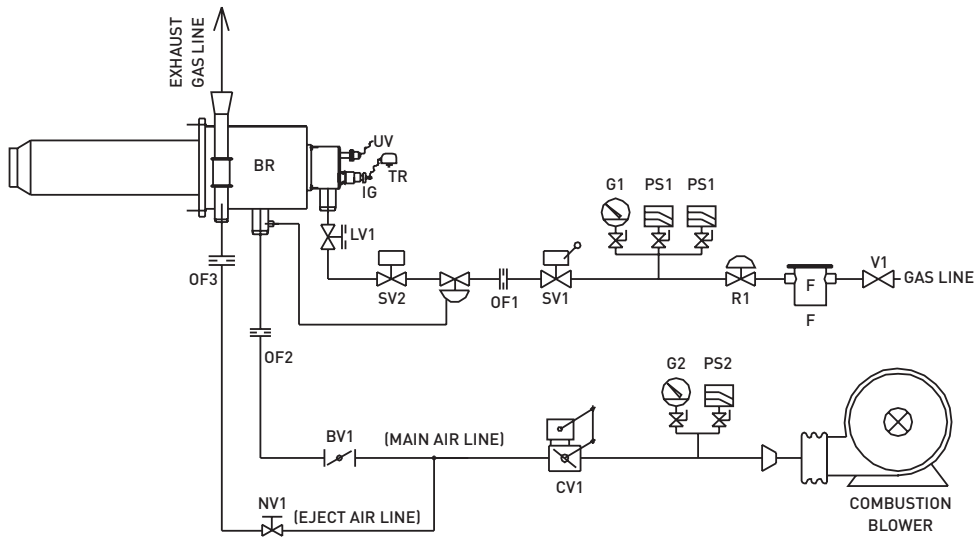
APPLICATIONS

- Non-ferrous metal heat treatment furnaces.
- High Temperature industrial furnaces.
- Walking Beam furnaces.
- Forging furnace (Iron & Steel industry).
- Reheating Furnace.

TECHNICAL DATA

MODEL	NOMINAL CAPACITY		AIR PRESSURE @15°C (mb)*	AIR VOLUME @15°C (Nm ³ /hr)	GAS PRESSURE (mb)*	MAXIMUM CAPACITY	
	(×10 ³ Kcal/hr)	(kW)				(×10 ³ Kcal/hr)	(kW)
JSRB-030	30	34	65	38	50	33	38
JSRB-050	50	59	65	64	50	55	64
JSRB-080	80	93	65	103	50	88	102
JSRB-150	150	174	65	193	50	165	191
JSRB-200	200	232	65	257	50	220	255
JSRB-400	400	465	65	515	50	440	511

BURNER FLOW SHEET



1	OF2	AIR ORIFICE METER	1	G2	AIR PRESSURE GAUGE		
1	OF1	GAS ORIFICE METER	1	G1	GAS PRESSURE GAUGE		
1	SV2	GAS SOLENOID VALVE	1	BV1	AIR BUTTERFLY VALVE	1	UV
1	SV1	MAIN GAS SHUTOFF VALVE	1	NV1	AIR NEEDLE VALVE	1	TR
1	R1	GAS REGULATOR	1	LV1	GAS LIMITING VALVE	1	IG
1	F	GAS FILTER	1	CV1	AIR CONTROL VALVE	1	PS2
1	BR	JSRB BURNER	1	OF3	EJECT AIR ORIFICE METER	2	PS1
Q'ty	No	NAME	Q'ty	No	NAME	Q'ty	No

The above mentioned performance data are described at their maximum power.

Pressure showed are guidelines only.

Gas pressures are refer to Natural gas.

* Stoichiometric conditions.

Performance data and dimensions are guidelines only.

The descriptions and specifications are subject to change without notice.