

NARITA

HIGH JET BURNER

HJ-15K HJ-50K HJ-100K HJ-200K



●FEATURES

- As the BURNER Tile made of silicon carbide in combined with silicon nitride is adopted, the BURNER can be used even under the severe condition with heat shock.
- As the BURNER jets the combustion gas at high temperature / speed, it will stir the air inside the Furnace so that a uniform heating can be made.
- No combustion chamber is required because the main body of BURNER is light and compact and besides the combustion is made under high load.
- As the Premix System is adopted, no reverse firing will be seen and high turn-down ratio can be provided.
- As the BURNER is developed for LPG, it is free from the trouble of carbonization at low inputting and besides it will provide a blue flame even in the theoretically determined air feed rate.
(NOTE: The BURNER for LPG is available, too.)
- Such wide range of temperatures as ranging between low-temperatures area and 1800°C are available.
(NOTE: In case of operating the BURNER at high temperature of 1800°C or higher, the BURNER tile made of alumina shall be adopted.)

●PRINCIPAL USES

- Each type of Heat treatment furnace. • Heating furnace. • Forging furnace. • Crucible furnace.
- Billet heater. • Melting of Non-ferrous metals. • high-temperatures furnace. • Tunnel kiln. • Shuttle kiln.

●NOTES

- As the BURNER will ignite direct, it is necessary to ignite it after throttling the combustion rate.
- Use the ultraviolet rays photoelectric tube for the flame monitor.
- Use the 10 mm copper pipe for the secondary air piping.
- Attach the cock to position so that the flow rate can be adjusted.
- In case it is required to control plural number of BURNER by means of only one piece of Control Valve, attach the Needle Valve to each BURNER and take care to make the balance of them all for uniform pressure.
- As the air feed pressure is fairly high for the BURNER, take care to select any adequate type of Blower.

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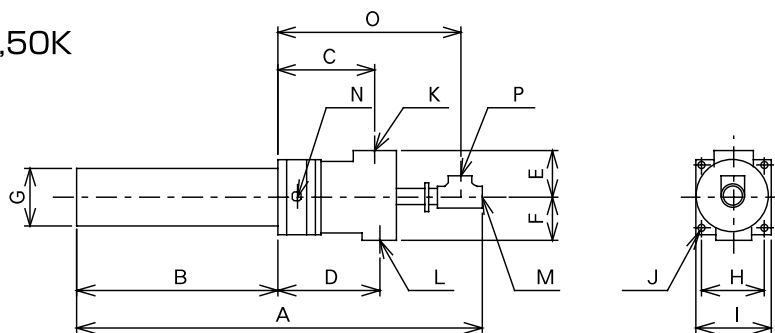
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●SPECIFICATIONS(For LPG)

Model No.	HJ-15K	HJ-50K	HJ-100K	HJ-200K	
Standard Input (kW)	15	52	104	207	
Turn-down Ratio	1 : 5	1 : 10	1 : 10	1 : 20	
Standard gas pressure (kPa)	10				
Standard air pressure (kPa)	10				
Outside dimensions	A (mm)	426	429	481	565
	B (mm)	213	213	241	291
	C (mm)	105	103	100	133
	D (mm)	107	108	185	219
	E (mm)	40	50	70	80
	F (mm)	30	45	35	35
	G (mm ϕ)	45	60	80	100
	O (mm)	—	187	220	254
Attaching dimensions	H (mm \square)	52.3	66.5	93.3	113.1
	I (mm \square)	66	80	120	140
	J (Bolt hole)	4- ϕ 7	4- ϕ 7	4- ϕ 12	4- ϕ 14
Connection DIA	K (Air)	PT $^{3/4}$ B	PT1B	PT1 $^{1/2}$ B	PT2B
	L (Gas)	PT $^{1/2}$ B	PT $^{1/2}$ B	PT $^{3/4}$ B	PT1B
	P (Secondary air)	—	PT $^{3/8}$ B	PT $^{3/8}$ B	PT $^{3/8}$ B
	M (Sight glass)	PT $^{3/8}$ B	PT $^{1/2}$ B	PT $^{1/2}$ B	PT $^{1/2}$ B
	M' (Foam monitor)	—	—	PT $^{1/2}$ B	PT $^{1/2}$ B
	N (Ignition plug)	M14 (P=1.25)	M14 (P=1.25)	M14 (P=1.25)	M14 (P=1.25)
Weight (kg)	2.9	4.1	7.0	9.2	
Availability for LPG at low pressure	Available	Available	Available (Replace the Nozzle)	Available (Replace the Nozzle)	

●OUTER CONFIGURATIONS

HJ-15K,50K



HJ-100K,200K

