Metallic High speed burner

MK-80K, 150K, 300K, 500K

High Temperature Burners

Stirring effect by high speed exhaust flow, and high-speed burner which was reduced in weight by adopting a metal combustion tube

Feature

- 1 The combustion gas has a high flow rate of 180 m / s.
- 2 Lightweight by adopting metal combustion tube.
- 3 Furnace stirring effect by the high-speed exhaust flow
- 4 Large convective heat transfer effect by fast exhaust



- Heat treatment furnace
- Heating furnace
- Galvanizing furnace

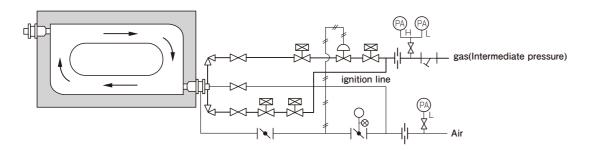


flame



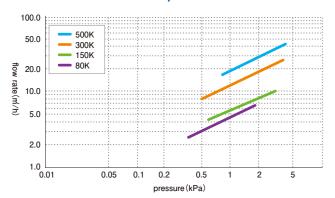
Flow sheet

(Galvanizing furnace using MK burner)

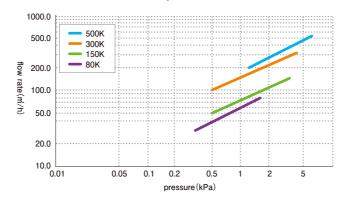


Data

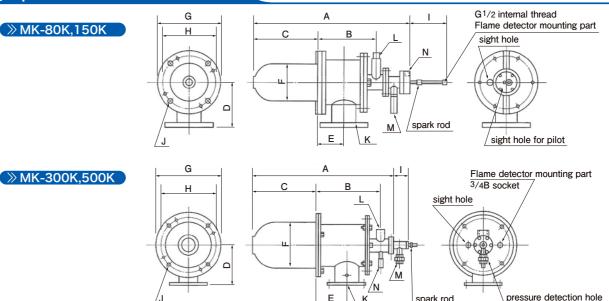
■ Gas flow rate & Gas pressure



■ Air flow rate & Gas pressure



Specifications · Overall size



Model		MK-80K	MK-150K	MK-300K	MK-500K	Remarks
Gas type		13A				
Rated burning capacity (kW)		84	157	315	525	Low calorific value
Standard gas quantity (m³/h)		7.3	13.6	27.3	45.5	
Standard gas head pressure (kPa)		2.0	4.5	3.6	4.2	
Standard air quantity(m³/h)		88	165	330	550	m=1.1
Standard air head pressure (kPa)		1.7	4.0	3.8	5.9	
Overall size (mm)	A	511	561	585	710	
	В	191		246	326	
	С	210	260	283	320	
	D	140		150	200	
	E	90	90	114	157	
	F(φ)	120	145	171	222	
	G (φ)	210		240	325	
	H (PCD)	180		210	280	P.C.D.
	1	120		79		
Mounting size	J (mounting bolt hole)	4- <i>ϕ</i> 14			4-ø18	
Connecting size (Flange JIS 5K)	K (main air)	2 1/2		3	4	JIS 5K Flange
Connecting size	L (main gas)	R 3/4		Rc 1	Rc 1 1/2	PT
Connecting M (center air)		1/2		3/4		PT
size (Rc)	N (pilot gas)	1/4		3/8		PT
Weight (kg)		16	19	31	50	
Turndown		3:1				
Ignition method		pilot ignition				
Detection method		ultraviolet phototube				

Handling Precautions

- The top of the combustion tube should be flush with the inside of the furnace wall.
- •Control method is in principle the High-Low-PILOT.
- Air ratio control is based on equalization valve control as standard.
- Pilot ignites all the time
- Turn down 3: 1.
- When using the preheated air, flowing a cooling air to ultraviolet phototube.