



บริษัท เอดีดี เฟอร์เนส จำกัด

ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

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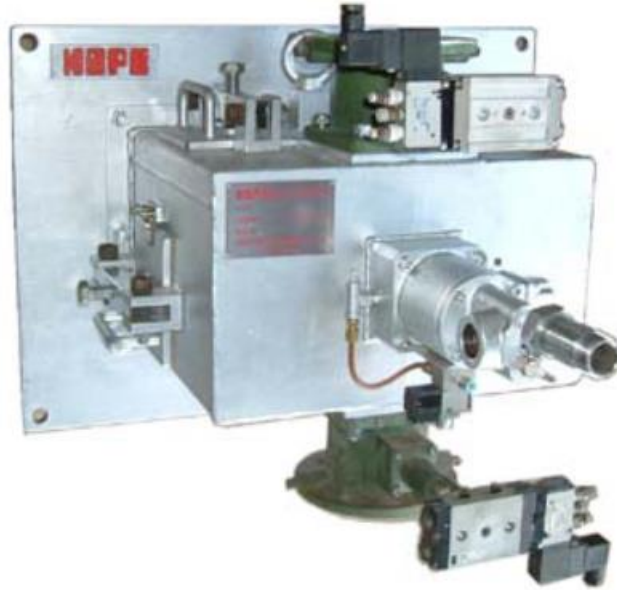
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# Burner & Accessories Controls

## CRU

### CRUCIBLE SELF REGENERATIVE GAS BURNER



Fuel

Standard pressure

Flame Safeguard System

Fuel gases

Gas 10kPa, Air 5kPa

UV Phototube

Type	Cap. kW(X 1,000kcal/h)	Pilot Air	Pilot Gas	Connection		Main Gas	Mass (kg)
				Main Air	Main Gas		
CRU-10	100(86)	Rc 1	Rc 3/8	JIS5K 80A		Rc 1	300
CRU-20	180(155)			JIS5K 100A			500

## CTR

### CYCLE TWIN REGENERATIVE GAS BURNER



Type	Cap. kW(X 1,000kcal/h)	Pilot Air	Pilot Gas	Connection		Main Gas	Mass (kg)
				Main Air	Main Gas		
CTR-80	80(69)	Rc 1	Rc 3/8	JIS5K 80A		Rc 1	160



## RSTB

### REGENERATIVE RADIANT TUBE BURNER



Fuel	Fuel gases
Standard pressure	Gas 10kPa, Air 5kPa
Flame Safeguard System	UV Phototube

Type	Cap. kW (X 103 kcal/h)	Radiant Tube	Connection			
			Main Air	Main Gas	Hold Air	Exhaust
RSTB-125	58(50)	125A	JIS5K 80A	Rc 3/4	Rc 1/2	JIS5K 80A
RSTB-150	93(80)	150A				

## SRB

### SELF REGENERATIVE GAS BURNER



Fuel	Fuel gases
Standard pressure	Gas 10kPa, Air 6kPa
Flame Safeguard System	UV Phototube

Type	Cap. kW (X 104 kcal/h)	Connection				
		Pilot Air	Pilot Gas	Main Air	Main Gas	Exhaust
SRB-15	150(13)			JIS5K 80A	Rc 1	JIS5K 80A
SRB-25	250(22)		Rc 3/8	JIS5K 100A		JIS5K 100A
SRB-40	400(34)	Rc 1		JIS5K 125A	Rc 1 1/2	JIS5K 125A
SRB-60	600(52)			JIS5K 150A		JIS5K 150A
SRB-100	1,000(86)		Rc 1/2	JIS5K 200A	Rc 2 1/2	JIS5K 200A



## SRBO

### SELF REGENERATIVE OIL BURNER



Fuel Kerosene, Light oil  
 Oil 50kPa, Main Air 6 kPa  
 Standard pressure Atomizing air 0.1MPa to 0.2MPa  
 Flame Safeguard System UV Phototube

Type	Cap. kW (X 104 kcal/h)	Connection					
		Pilot Air	Pilot Gas	Main Air	A.Air	Oil	Exhaust
SRBO-15	150(13)			JIS5K 80A	Rc 1/2		JIS5K 80A
SRBO-25	250(22)			JIS5K 100A			JIS5K 100A
SRBO-40	400(34)	Rc 1	Rc 3/8	JIS5K 125A		Rc 3/8	JIS5K 125A
SRBO-60	600(52)			JIS5K 150A	Rc 3/4		JIS5K 150A
SRBO-100	1,000(86)		Rc 1/2	JIS5K 200A		Rc 1/2	JIS5K 200A

## CB

### CUP FLAME GAS BURNER



Fuel Fuel gases  
 Standard pressure Gas: 2 to 10kPa  
 Air: 6kPa



## CJ

### CERAMIC JET GAS BURNER



Fuel	Fuel gases
Standard pressure	Gas: 2 to 10kPa
	Air: 6kPa
Flame Safeguard System	UV Phototube

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m <sup>3</sup> /h)	Connection	
			Air	Gas
CJ-1	58(50)	60	Rc 1 1/2	Rc 1/2
CJ-2	140(120)	145	Rc 2	Rc 3/4
CJ-3	233(200)	240	Rc 3/4	Rc 1

## DF

### DUAL FLAME BURNER



Fuel	Fuel gases
Standard pressure	Gas: 2 to 10kPa
	Air: 6kPa

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m <sup>3</sup> /h)	Connection		A (mm)	Mass (kg)
			Air	Gas		
DF-1	58(50)	60	Rc 1 1/2	Rc 3/4	141	46
DF-2	116(100)	120	Rc 2		146	47



## EXA-A

### EXCESS AIR GAS BURNER SQUARE TILE



Fuel	Fuel gases
Standard pressure	Gas: 2 to 10kPa
	Air: 6kPa

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m3/h)	Connection	
			Air	Gas
EXA-1A	97(83)	91	Rc 1 1/4	
EXA-2A	166(143)	157	Rc 1 1/2	Rc 1
EXA-3A	255(219)	241	Rc 2	
EXA-4A	453(390)	429	Rc 3	
EXA-5A	724(623)	685	Rc 4	Rc 2
EXA-6A	1,060(912)	1,003	JIS5K 125A	
EXA-7A	1,530(1,316)	1,448	JIS5K 150A	Rc 3

## EXA-R

### EXCESS AIR GAS BURNER ROUND TILE





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Fuel  
Standard pressure  
Fuel gases  
Gas: 2 to 10kPa  
Air: 6kPa

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m3/h)	Connection	
			Air	Gas
EXA-1R	97(83)	91	Rc 11/4	
EXA-2R	166(143)	157	Rc 11/2	Rc 1
EXA-3R	255(219)	241	Rc 2	
EXA-4R	453(390)	429	Rc 3	
EXA-5R	724(623)	685	Rc 4	Rc 2
EXA-6R	1,060(912)	1,003	JIS5K 125A	
EXA-7R	1,530(1,316)	1,448	JIS5K 150A	Rc 3

## EXAH

### EXCESS AIR HEAT BURNER



Fuel  
Standard pressure  
Fuel gases  
Gas: 2 to 10kPa  
Primary Air: 6kPa  
Secondary Air: 0.5 to 3kPa

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m3/h)	Connection		
			P. Air	S. Air	Gas
EXAH-1	97(83)	91	Rc 1 1/4		
EXAH-2	166(143)	157	Rc 1 1/2	JIS5K 50A	Rc 1
EXAH-3	255(219)	241	Rc 2		
EXAH-4	453(390)	241	Rc 3		
EXAH-5	724(623)	685	Rc 4	JIS5K 100A	Rc 2
EXAH-6	1,060(912)	1,003	JIS5K 125A		
EXAH-7	1,530(1,316)	1,448	JIS5K 150A	JIS5K 150A	Rc 3



## EXA-AP

### EXCESS AIR LOW NOx GAS BURNER



Fuel  
Standard pressure

Fuel gases  
Gas: 2 to 10kPa  
Air: 6kPa

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m³/h)	Connection	
			P. Air	Gas
EXA-1-AP	97(83)	91	Rc 1 1/4	
EXA-2-AP	166(143)	157	Rc 1 1/2	Rc 1
EXA-3-AP	255(219)	241	Rc 2	
EXA-4-AP	453(390)	429	Rc 3	
EXA-5-AP	724(623)	685	Rc 4	Rc 2
EXA-6-AP	1,060(912)	1,003	JIS5K 125A	
EXA-7-AP	1,530(1,316)	1,448	JIS5K 150A	Rc 3

## HGS

### HIGH SPEED GAS BURNER





Fuel	Fuel gases
Standard pressure	Gas: 6 to 10kPa
Accessories	Air: 6kPa P-cock(2pcs.)

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m <sup>3</sup> /h)	Connection	
			Air	Gas
HGS-1/2	47(40)	58	Rc 1	Rc 1/2
HGS-1	93(80)	116	Rc 1 1/2	
HGS-2	140(120)	172	Rc 2	Rc 1
HGS-3	233(200)	310	Rc 2 1/2	
HGS-4	350(300)	455		Rc 1 1/2
HGS-5	465(400)	580	Rc 3	

## HNB-A(R)

### NOZZLE MIXING GAS BURNER



Fuel	Fuel gases
Standard pressure	Gas: 2 to 10kPa
Accessories	Air: 6kPa Damper Gas cock Pressure gauge

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m <sup>3</sup> /h)	Connection	
			Air	Gas
HNB-1/2	70(60)	66		
HNB-1	145(126)	139	Rc 1 1/2	Rc 3/4
HNB-2	250(213)	234	Rc 2	Rc 1
HNB-3	480(415)	457	Rc 3	Rc 1 1/4
HNB-4	740(638)	702	Rc 4	Rc 1 1/2
HNB-5	1,480(1,273)	1,400	JIS5K 150A	Rc 2





In placing an order for square tiles, affix "A" to the end of the model No. (Ex. HNB-1A)

In placing an order for round tiles, affix "R" to the end of the model No. (Ex. HNB-1R)

HNB-5 are flanged for connection to the air. (JIS5K)

## IP-A

### INSPECTION GAS BURNER SQUARE TILE



Fuel

Fuel gases

Standard pressure

Gas: 2 to 10kPa

Air: 6kPa

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m3/h)	Connection	
			Air	Gas
IP-1FA	58(50)	60	JIS5K 40A	
IP-2FA	116(100)	120		Rc 3/4
IP-3FA	174(150)	180	JIS5K 65A	
IP-4FA	233(200)	240		
IP-5FA	290(250)	300		
IP-6FA	350(300)	360	JIS5K 80A	Rc 1
IP-7FA	465(400)	360		
IP-8FA	580(500)	600		Rc 1 1/2
IP-9FA	700(600)	720	JIS5K 100A	



## IP-R

### INSPECTION GAS BURNER ROUND TILE



Fuel                      Fuel gases  
 Standard pressure      Gas: 2 to 10kPa  
                                     Air: 6kPa

Type	Cap. kW (X 1,000kcal/h)	Air Vol (m <sup>3</sup> /h)	Connection	
			Air	Gas
IP-1FR	58(50)	60		
IP-2FR	116(100)	120	JIS5K 40A	Rc 3/4
IP-3FR	174(150)	180		
IP-4FR	233(200)	240	JIS5K 65A	
IP-5FR	290(250)	300		Rc 1
IP-6FR	350(300)	360	JIS5K 80A	
IP-7FR	465(400)	480		
IP-8FR	580(500)	600		Rc 1 1/2
IP-9FR	700(600)	720	JIS5K 100A	

## LCG

### LONG CREMATION GAS BURNER



Fuel                      Fuel gases  
 Standard pressure      Gas: 2 to 10kPa  
                                     Air: 6kPa

Type	Cap. kW(X 1,000kcal/h)	Air Vol (m <sup>3</sup> /h)	Air P. (kPa)	Gas P. (kPa)	Connection		Mass (kg)
					Air	Gas	
LCG-2	580(500)	600	6	10	G4	Rc 1/2	75



## GGL

### GG LESS RADIANT TUBE BURNER



Fuel	Fuel gases
Standard pressure	Gas: 2 to 10kPa
Flame Safeguard System	Air: 6kPa
	UV Phototube

Type	Cap. kW (X 1,000kcal/h)	Tube	L (mm)
GGL-50	58(50)	150A	400 to 600

## RTB

### RADIANT TUBE BURNER



Fuel	Fuel gases
Standard pressure	Gas: 2 to 10kPa
Flame Safeguard System	Air: 6 to 10kPa
	UV Phototube

Type	Cap. kW (X 1,000kcal/h)	Tube	Connection		
			Main Air	Main Gas	Hold Air
RTB-100	35(30)	100A	Rc 1 1/2	Rc 1/2	
RTB-125	58(50)	125A	Rc 2	Rc 3/4	Rc 3/8
RTB-150	93(80)	150A	Rc 2 1/2	Rc 1	



## WRT

### WIDE RANGE RADIANT TUBE BURNER



Fuel	Fuel gases
Standard pressure	Gas: 2 to 10kPa Air: 6 to 10kPa
Flame Safeguard System	UV Phototube

Type	Cap.kW (X 1,000kcal/h)			Connection			
	Main Burner	Sub Burner	Tube	Main Air	Main Gas	Sub Air	Sub Gas
WRT-100	35(30)		100A	Rc 1 1/2	Rc 1/2		
WRT-125	58(50)	2.9(2.5)	125A	Rc 2	Rc 3/4	Rc 3/8	Rc 1/4
WRT-150	93(80)		150A	Rc 2 1/2	Rc 1		

## YSRT

### SINGLE END RADIANT TUBE BURNER



Fuel	Fuel gases
Standard pressure	Gas: 4 to 10kPa Air: 6kPa

Type	Cap. kW (X 1,000kcal/h)	Connection			
		Air	Gas	Exhaust	UV
YSRT-80	10-15(9-13)	Rc 1	Rc 3/8	Rc 1 1/2	
YSRT-100	16-23(14-20)		Rc 1/2		R 1
YSRT-125	19-31(17-27)	Rc 1 1/2		Rc 2	



## JP

### PILOT GAS BURNER



Standard pressure      Gas: 2.8kkPa  
    Air:4kPa

Accessories              Cord, Solenoid valve, Spark plug, Air cock, Gas cock, Plug cap

Type	Cap. kW (X 1,000kcal/h)	Connection Installation	A (mm)
JP-20	3.4(2.9)	R ¾	21.7
JP-25	5.2(4.5)	R 1	27.2

## NP

### NOZZLE MIXED TYPE PILOT BURNER



Standard pressure      Gas:2.8kPa  
    Air:4kPa

Accessories              Spark plug



## PB

### PILOT BURNER



Type	Cap. kW (X 1,000kcal/h)	Connection		Berner Nozzle Size (mm2)
		Mixed Gas	Installation	
PB-1	4.6(4)	Rc 1/2	R 1/2	48.5
PB-2	9.3(8)	Rc 3/4	R 3/4	97.4
PB-3	17.4(15)	Rc 1	R 1	178.9
PB-4	28.0(24)	Rc 1 1/4	R 1 1/4	256.4
PB-5	41.0(35)	Rc 1 1/2	R 1 1/2	348.5

## PBC

### PILOT BURNER (DETECTION TYPE)



Type	Cap. kW (X 1,000kcal/h)	Connection	
		Mixed Gas	Installation
PBC-2	3.4(2.9)	Rc 3/4	R 3/4
PBC-3	6.5(5.6)	Rc 1	R 1
PBC-4	17.4(15)	Rc 1	R 1 1/2



## PBX

### PILOT GAS BURNER



Standard pressure Gas:2.8kPa  
Air:4kPa

Accessories Trans former, Cord, Solenoid valve, Air cock, Gas cock, Spark plug

Type	Cap. kW (X 1,000kcal/h)	Air	Connection Gas	Installation
PBX-2	3.4(2.9)	Rc 1/2	Rc 3/8	R 3/4
PBX-3	6.5(5.6)	Rc 3/4		R 1

## PWS

### PILOT GAS BURNER



Standard pressure Gas: 50kPa

Accessories Trans former, Cord, Solenoid valve, Gas cock, Spark plug

Type	Cap. kW (X 1,000kcal/h)	Connection Gas	Installation
PWS-1	4.6(4)	Rc 1/4	R 3/4
PWS-2	8.0(7)		R 1



## HFB (-M)

### FLAME RETENTION GAS BURNER



Type	Cap.. at Mixer Gas 1kPa kW(X 1,000kcal/h)	Connection Mixed Gas	Berner Nozzle Size (mm <sup>2</sup> )	Material
HFB-1	16(14)	Rc 3/4	114	
HFB-2	33(28)	Rc 1	233	ceramic
HFB-3	57(49)	Rc 1 1/4	405	cast iron
HFB-4	97(83)	Rc 1 1/2	686	hest resisting steel
HFB-5	141(121)	Rc 2	1,001	

Type	Cap.. at Mixer Gas 1kPa kW(X 1,000kcal/h)	Connection Mixed Gas	Berner Nozzle Size (mm <sup>2</sup> )	Material
HFB-1M	16(14)	Rc 3/4	115	
HFB-2M	31(27)	Rc 1	226	
HFB-3M	49(42)	Rc 1 1/4	360	hest resisting steel
HFB-4M	67(58)	Rc 1 1/2	492	
HFB-5M	110(95)	Rc 2	804	

## HLGB-A(R)

### VELOCITY GAS BURNER



Fuel	Fuel gases
Standard pressure	Gas:2.8kPa Air:6kPa
Accessories	Zero governor





Damper  
Gas cock  
Pressure gauge

Type	Cap. kW (X 1,000kcal/h)	Connection	
		Air	Gas
HLGB-1	72(62)	Rc 11/2	Rc 3/4
HLGB-2	130(112)	Rc 2	1
HLGB-3	276(238)	Rc 3	Rc 11/4
HLGB-4	517(445)	Rc 4	Rc 11/2

## HVM

### LOW-PRESSURE VENTURI GAS MIXER



Standard pressure  
Gas:2.8kPa  
Air:6kPa

Accessories  
Zero governor  
Damper  
Gas cock  
Pressure gauge

Type		Cap. kW (X 1,000kcal/h)	Air	Connection	
				Gas	Mixed Gas
HVM-1	L	56(48)	Rc 11/2	Rc 3/4	Rc 11/2
	H	72(62)			
HVM-2	L	100(86)	Rc 2	Rc 1	Rc 2
	H	130(112)			
HVM-3	L	200(172)	Rc 3	Rc 11/4	Rc 3
	H	276(238)			
HVM-4	L	374(322)	Rc 4	Rc 11/2	Rc 4
	H	517(445)			

## MVM

### MIDDLE-PRESSURE VENTURI GAS MIXER





Type	Cap. kW (X 1,000kcal/h)	Gas	Connection	Mixed Gas
MVM-1	9(7.5)			Rc 3/4
MVM-2	18(15.7)			Rc 1
MVM-3	31(26.5)	Rc 1/4		Rc 1 1/4
MVM-4	49(41.8)			Rc 1 1/2
MVM-5	69(59.0)			Rc 2

## PGM

### LOW-PRESSURE PILOT GAS MIXER



Standard pressure	Gas:2.8kPa Air:6kPa
Accessories	Zero governor Damper Gas cock

Type	Cap. kW (X 1,000kcal/h)	Air	Connection Gas	Mixed Gas
PGM-1	A	6(5)		
	B	10(9)	Rc 1/2	Rc 1/2
PGM-2	A	12(10)		Rc 3/8
	B	20(17)	Rc 3/4	Rc 3/4
PGM-3	A	23(20)		Rc 1/2
	B	33(29)	Rc 1	Rc 1