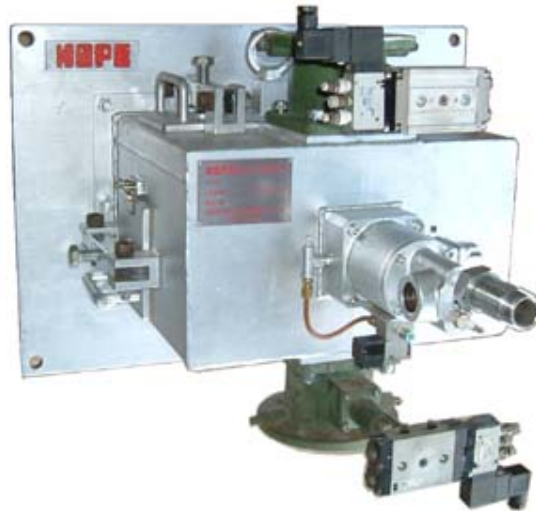




# Burner & Accessories Controls

## CRU

### CRUCIBLE SELF REGENERATIVE GAS BURNER



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

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

## CTR

### CYCLE TWIN REGENERATIVE GAS BURNER



| Type   | Cap.<br>kW (X 1,000kcal/h) | Connection |                  |           |          | Mass<br>(kg) |
|--------|----------------------------|------------|------------------|-----------|----------|--------------|
|        |                            | Pilot Air  | Pilot Gas        | Main Air  | Main Gas |              |
| CTR-80 | 80(69)                     | Rc 1       | Rc $\frac{3}{8}$ | 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.<br>kW (X 10 <sup>3</sup> kcal/h) | Radiant Tube | Connection |                                |                                |           |
|----------|---------------------------------------|--------------|------------|--------------------------------|--------------------------------|-----------|
|          |                                       |              | Main Air   | Main Gas                       | Hold Air                       | Exhaust   |
| RSTB-125 | 58(50)                                | 125A         | JIS5K 80A  | Rc <sup>3</sup> / <sub>4</sub> | Rc <sup>1</sup> / <sub>2</sub> | JIS5K 80A |
| RSTB-150 | 93(80)                                | 150A         |            |                                |                                |           |

## SRB

### SELF REGENERATIVE GAS BURNER



Fuel

Fuel gases

Standard pressure

Gas 10kPa, Air 6kPa

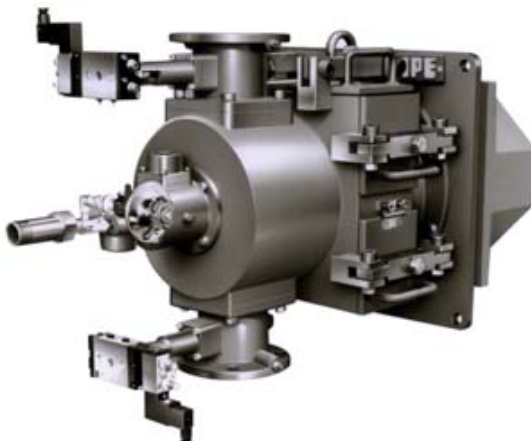
Flame Safeguard System

UV Phototube

| Type    | Cap.<br>kW (X 10 <sup>4</sup> kcal/h) | Connection |                                |            |                                  |            |
|---------|---------------------------------------|------------|--------------------------------|------------|----------------------------------|------------|
|         |                                       | Pilot Air  | Pilot Gas                      | Main Air   | Main Gas                         | Exhaust    |
| SRB-15  | 150(13)                               | Rc 1       | Rc <sup>3</sup> / <sub>8</sub> | JIS5K 80A  | Rc 1                             | JIS5K 80A  |
| SRB-25  | 250(22)                               |            |                                | JIS5K 100A |                                  | JIS5K 100A |
| SRB-40  | 400(34)                               |            |                                | JIS5K 125A | Rc 1 <sup>1</sup> / <sub>2</sub> | JIS5K 125A |
| SRB-60  | 600(52)                               |            |                                | JIS5K 150A |                                  | JIS5K 150A |
| SRB-100 | 1,000(86)                             |            | Rc <sup>1</sup> / <sub>2</sub> | JIS5K 200A | Rc 2 <sup>1</sup> / <sub>2</sub> | JIS5K 200A |

## SRBO

### SELF REGENERATIVE OIL BURNER



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

| Type     | Cap.<br>kW (X 10 <sup>4</sup> 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<br>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.<br>kW (X 1,000kcal/h) | Air Vol<br>(m <sup>3</sup> /h) | Connection                       |                                  |
|------|----------------------------|--------------------------------|----------------------------------|----------------------------------|
|      |                            |                                | Air                              | Gas                              |
| CJ-1 | 58(50)                     | 60                             | Rc 1 <sup>1</sup> / <sub>2</sub> | Rc 1 <sup>1</sup> / <sub>2</sub> |
| CJ-2 | 140(120)                   | 145                            | Rc 2                             | Rc 3 <sup>3</sup> / <sub>4</sub> |
| CJ-3 | 233(200)                   | 240                            | Rc 2 <sup>1</sup> / <sub>2</sub> | Rc 1                             |

## DF

### DUAL FLAME BURNER



Fuel Fuel gases

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

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

## EXA-A

### EXCESS AIR GAS BURNER SQUARE TILE



Fuel  
Standard pressure

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

| Type   | Cap.<br>kW (X 1,000kcal/h) | Air Vol<br>(m <sup>3</sup> /h) | Connection                       |      |
|--------|----------------------------|--------------------------------|----------------------------------|------|
|        |                            |                                | Air                              | Gas  |
| EXA-1A | 97(83)                     | 91                             | Rc 1 <sup>1</sup> / <sub>4</sub> |      |
| EXA-2A | 166(143)                   | 157                            | Rc 1 <sup>1</sup> / <sub>2</sub> | 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



Fuel

Fuel gases

Standard pressure

Gas: 2 to 10kPa

Air: 6kPa

| Type   | Cap.<br>kW (X 1,000kcal/h) | Air Vol<br>(m <sup>3</sup> /h) | Connection                       |      |
|--------|----------------------------|--------------------------------|----------------------------------|------|
|        |                            |                                | Air                              | Gas  |
| EXA-1R | 97(83)                     | 91                             | Rc 1 <sup>1</sup> / <sub>4</sub> |      |
| EXA-2R | 166(143)                   | 157                            | Rc 1 <sup>1</sup> / <sub>2</sub> | 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

Fuel gases

Standard pressure

Gas: 2 to 10kPa

Primary Air: 6kPa

Secondary Air: 0.5 to 3kPa

| Type   | Cap.<br>kW (X 1,000kcal/h) | Air Vol<br>(m <sup>3</sup> /h) | Connection                       |            |      |
|--------|----------------------------|--------------------------------|----------------------------------|------------|------|
|        |                            |                                | P. Air                           | S. Air     | Gas  |
| EXAH-1 | 97(83)                     | 91                             | Rc 1 <sup>1</sup> / <sub>4</sub> |            |      |
| EXAH-2 | 166(143)                   | 157                            | Rc 1 <sup>1</sup> / <sub>2</sub> | JIS5K 50A  | Rc 1 |
| EXAH-3 | 255(219)                   | 241                            | Rc 2                             |            |      |
| EXAH-4 | 453(390)                   | 429                            | 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 NO<sub>x</sub> GAS BURNER



Fuel  
Standard pressure

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

| Type     | Cap.<br>kW (X 1,000kcal/h) | Air Vol<br>(m <sup>3</sup> /h) | Connection                       |      |
|----------|----------------------------|--------------------------------|----------------------------------|------|
|          |                            |                                | P. Air                           | Gas  |
| EXA-1-AP | 97(83)                     | 91                             | Rc 1 <sup>1</sup> / <sub>4</sub> |      |
| EXA-2-AP | 166(143)                   | 157                            | Rc 1 <sup>1</sup> / <sub>2</sub> | 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<br>Air: 6kPa |
| Accessories       | P-cock(2pcs.)                |

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

## HNB-A(R)

### NOZZLE MIXING GAS BURNER



|                   |                                      |
|-------------------|--------------------------------------|
| Fuel              | Fuel gases                           |
| Standard pressure | Gas: 2 to 10kPa<br>Air: 6kPa         |
| Accessories       | Damper<br>Gas cock<br>Pressure gauge |

| Type                             | Cap.<br>kW (X 1,000kcal/h) | Air Vol<br>(m <sup>3</sup> /h) | Connection                       |                                |
|----------------------------------|----------------------------|--------------------------------|----------------------------------|--------------------------------|
|                                  |                            |                                | Air                              | Gas                            |
| HNB- <sup>1</sup> / <sub>2</sub> | 70(60)                     | 66                             | Rc 1 <sup>1</sup> / <sub>2</sub> | Rc <sup>3</sup> / <sub>4</sub> |



|       |              |       |            |                                  |
|-------|--------------|-------|------------|----------------------------------|
| HNB-1 | 145(126)     | 139   |            |                                  |
| HNB-2 | 250(213)     | 234   | Rc 2       | Rc 1                             |
| HNB-3 | 480(415)     | 457   | Rc 3       | Rc 1 <sup>1</sup> / <sub>4</sub> |
| HNB-4 | 740(638)     | 702   | Rc 4       | Rc 1 <sup>1</sup> / <sub>2</sub> |
| 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  
Standard pressure

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

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

## IP-R

### INSPECTION GAS BURNER ROUND TILE



Fuel  
Standard pressure

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

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

## LCG

### LONG CREMATION GAS BURNER



Fuel  
Standard pressure

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

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

## GGL

### GG LESS RADIANT TUBE BURNER



Fuel

Fuel gases

Standard pressure

Gas: 2 to 10kPa

Air: 6kPa

Flame Safeguard System

UV Phototube

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

## RTB

### RADIANT TUBE BURNER



Fuel

Fuel gases

Standard pressure

Gas: 2 to 10kPa

Air: 6 to 10kPa

Flame Safeguard System

UV Phototube

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

## YSRT

### SINGLE END RADIANT TUBE BURNER



Fuel Fuel gases

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

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

## JP

### PILOT GAS BURNER



|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Standard pressure | Gas: 2.8kkPa<br>Air:4kPa                                       |
| Accessories       | Cord, Solenoid valve, Spark plug, Air cock, Gas cock, Plug cap |

| Type  | Cap.<br>kW (X 1,000kcal/h) | Connection                    | A<br>(mm) |
|-------|----------------------------|-------------------------------|-----------|
|       |                            | Installation                  |           |
| JP-20 | 3.4(2.9)                   | R <sup>3</sup> / <sub>4</sub> | 21.7      |
| JP-25 | 5.2(4.5)                   | R 1                           | 27.2      |

## NP

### NOZZLE MIXED TYPE PILOT BURNER



|                   |                        |
|-------------------|------------------------|
| Standard pressure | Gas:2.8kPa<br>Air:4kPa |
| Accessories       | Spark plug             |

## PB

### PILOT BURNER



| Type | Cap.<br>kW (X 1,000kcal/h) | Connection |              | Berner Nozzle Size<br>(mm <sup>2</sup> ) |
|------|----------------------------|------------|--------------|------------------------------------------|
|      |                            | 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.<br>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<br>Air:4kPa                                             |
| Accessories       | Trans former, Cord, Solenoid valve, Air cock, Gas cock, Spark plug |

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

| Type   | Cap..                                  | Connection                       | Berner Nozzle Size<br>(mm <sup>2</sup> ) | Material             |
|--------|----------------------------------------|----------------------------------|------------------------------------------|----------------------|
|        | at Mixer Gas 1kPa<br>kW(X 1,000kcal/h) | Mixed Gas                        |                                          |                      |
| HFB-1M | 16(14)                                 | Rc <sup>3</sup> / <sub>4</sub>   | 115                                      | heat resisting steel |
| HFB-2M | 31(27)                                 | Rc 1                             | 226                                      |                      |
| HFB-3M | 49(42)                                 | Rc 1 <sup>1</sup> / <sub>4</sub> | 360                                      |                      |
| HFB-4M | 67(58)                                 | Rc 1 <sup>1</sup> / <sub>2</sub> | 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.<br>kW (X 1,000kcal/h) | Connection         |                    |
|--------|----------------------------|--------------------|--------------------|
|        |                            | Air                | Gas                |
| HLGB-1 | 72(62)                     | Rc 1 $\frac{1}{2}$ | Rc $\frac{3}{4}$   |
| HLGB-2 | 130(112)                   | Rc 2               | 1                  |
| HLGB-3 | 276(238)                   | Rc 3               | Rc 1 $\frac{1}{4}$ |
| HLGB-4 | 517(445)                   | Rc 4               | Rc 1 $\frac{1}{2}$ |

## HVM

### LOW-PRESSURE VENTURI GAS MIXER



Standard pressure  
Gas:2.8kPa  
Air:6kPa

Accessories  
Zero governor  
Damper  
Gas cock  
Pressure gauge

| Type  |   | Cap.<br>kW (X 1,000kcal/h) | Connection         |                    |                    |
|-------|---|----------------------------|--------------------|--------------------|--------------------|
|       |   |                            | Air                | Gas                | Mixed Gas          |
| HVM-1 | L | 56(48)                     | Rc 1 $\frac{1}{2}$ | Rc $\frac{3}{4}$   | Rc 1 $\frac{1}{2}$ |
|       | 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 1 $\frac{1}{4}$ | Rc 3               |
|       | H | 276(238)                   |                    |                    |                    |
| HVM-4 | L | 374(322)                   | Rc 4               | Rc 1 $\frac{1}{2}$ | Rc 4               |
|       | H | 517(445)                   |                    |                    |                    |

## MVM

### MIDDLE-PRESSURE VENTURI GAS MIXER



| Type  | Cap.<br>kW (X 1,000kcal/h) | Connection       |                   |
|-------|----------------------------|------------------|-------------------|
|       |                            | Gas              | Mixed Gas         |
| MVM-1 | 9(7.5)                     |                  | Rc $\frac{3}{4}$  |
| MVM-2 | 18(15.7)                   |                  | Rc 1              |
| MVM-3 | 31(26.5)                   | Rc $\frac{1}{4}$ | Rc $1\frac{1}{4}$ |
| MVM-4 | 49(41.8)                   |                  | Rc $1\frac{1}{2}$ |
| 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.<br>kW (X 1,000kcal/h) | Connection       |                  |                  |
|-------|---|----------------------------|------------------|------------------|------------------|
|       |   |                            | Air              | Gas              | Mixed Gas        |
| PGM-1 | A | 6(5)                       | Rc $\frac{1}{2}$ | Rc $\frac{3}{8}$ | Rc $\frac{1}{2}$ |
|       | B | 10(9)                      |                  |                  |                  |
| PGM-2 | A | 12(10)                     | Rc $\frac{3}{4}$ | Rc $\frac{1}{2}$ | Rc $\frac{3}{4}$ |
|       | B | 20(17)                     |                  |                  |                  |
| PGM-3 | A | 23(20)                     | Rc 1             |                  | Rc 1             |
|       | B | 33(29)                     |                  |                  |                  |



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