

## Model selection guide



| I  | -II | -III | -IV | -V | -VI |                                                                                                                                                                                                                                           |
|----|-----|------|-----|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TJ |     |      |     |    |     | <b>ThermJet Burner</b>                                                                                                                                                                                                                    |
|    |     |      |     |    |     | <b>Model</b><br>0015 150,000 Btu/h (44 kW)<br>0025 250,000 Btu/h (73 kW)<br>0050 500,000 Btu/h (147 kW)<br>0075 750,000 Btu/h (220 kW)<br>0100 1,000,000 Btu/h (293 kW)<br>0150 1,500,000 Btu/h (440 kW)<br>0200 2,000,000 Btu/h (586 kW) |
|    |     |      |     |    |     | <b>Combustor Type</b><br>AT Alloy Tube Combustor 750°C (950° F)<br>SC Silicon Carbide Combustor 1,371°C (1,500° F)<br>RC Refractory Combustor with AISI 330 wrapper<br>1,538°C (2,800° F)                                                 |
|    |     |      |     |    |     | <b>Fuel Type</b><br>P Propane (C3H8)<br>N Natural Gas (CH4)                                                                                                                                                                               |
|    |     |      |     |    |     | <b>Burner Velocity Type</b><br>M Medium Velocity Outlet<br>H High Velocity Outlet                                                                                                                                                         |
|    |     |      |     |    |     | <b>Flame Detection Type</b><br>UV UV Scanner Adapter 1/2"<br>FR Flame Rod                                                                                                                                                                 |



| Type                  | Operating Voltage | Check Flame Type                              |
|-----------------------|-------------------|-----------------------------------------------|
|                       |                   | Purge Time                                    |
| RB890U200             | 200~230V          | UV sensor C7027,C7035A,AUD100C,AUD110C{13.5s} |
| RB890F200             | 200~230V          | Flame Rod{13.5s}                              |
| RB890U100             | 100~110V          | UV sensor C7027,C7035A,AUD100C,AUD110C{13.5s} |
| R4715                 | 200~230V          | Flame Rod{15s}                                |
| R4715 100V            | 100~110V          | Flame Rod{15s}                                |
| R4750B 200V           | 200~230V          | Flame Rod{33s}                                |
| R4750B 100V           | 100~110V          | Flame Rod{33s}                                |
| R4750C 200V           | 200~230V          | UV sensor C7027,C7035A,AUD100C,AUD110C{33s}   |
| R4750C 100V           | 100~110V          | UV sensor C7027,C7035A,AUD100C,AUD110C{33s}   |
| R4750C 2.5S 200V      | 200~230V          | UV sensor C7027,C7035A,AUD100C,AUD110C{2.5s}  |
| R4750C 2.5S 100V      | 100~110V          | UV sensor C7027,C7035A,AUD100C,AUD110C{2.5s}  |
| IFW 15-T(Flame Relay) | 200~230V          | UV sensor(UVS 10 Series) and Flame rod        |

## Gas Filter

**Yamataha.**



| Type     | Size        | Maximum working pressure |
|----------|-------------|--------------------------|
| GF-4B15R | 1/2" DN15   | 4Bar/60Psi/400kPa        |
| GF-4B20R | 3/4" DN20   | 4Bar/60Psi/400kPa        |
| GF-4B25R | 1" DN25     | 4Bar/60Psi/400kPa        |
| GF-4B40R | 1.1/2" DN40 | 4Bar/60Psi/400kPa        |
| GF-4B50R | 2" DN50     | 4Bar/60Psi/400kPa        |

## Fast open solenoid valve

**Yamataha.**



| Type        | Size        | Maximum working pressure |
|-------------|-------------|--------------------------|
| GSV-115R/NW | 1/2" DN15   | 500mBar/7Psi/50kPa       |
| GSV-120R/NW | 3/4" DN20   | 500mBar/7Psi/50kPa       |
| GSV-125R/NW | 1" DN25     | 500mBar/7Psi/50kPa       |
| GSV-225R/NW | 1" DN25     | 500mBar/7Psi/50kPa       |
| GSV-240R/NW | 1.1/2" DN40 | 500mBar/7Psi/50kPa       |
| GSV-250R/NW | 2" DN50     | 500mBar/7Psi/50kPa       |
| GSV-250F/NW | 2" DN50     | 500mBar/7Psi/50kPa       |

## Slow open solenoid valve

**Yamataha**



| Type        | Size        | Maximum working pressure |
|-------------|-------------|--------------------------|
| GSV-115R/LW | 1/2" DN15   | 500mBar/7Psi/50kPa       |
| GSV-120R/LW | 3/4" DN20   | 500mBar/7Psi/50kPa       |
| GSV-125R/LW | 1" DN25     | 500mBar/7Psi/50kPa       |
| GSV-225R/LW | 1" DN25     | 500mBar/7Psi/50kPa       |
| GSV-232R/LW | 1.1/4" DN32 | 500mBar/7Psi/50kPa       |
| GSV-240R/LW | 1.1/2" DN40 | 500mBar/7Psi/50kPa       |
| GSV-250R/LW | 2" DN50     | 500mBar/7Psi/50kPa       |
| GSV-250F/LW | 2" Flange   | 500mBar/7Psi/50kPa       |

## Gas Ball Valve

**Yamataha**



| Type      | Size        | Maximum working pressure |
|-----------|-------------|--------------------------|
| GBV-5B15R | 1/2" DN15   | 5Bar/70Psi/500kPa        |
| GBV-5B20R | 3/4" DN20   | 5Bar/70Psi/500kPa        |
| GBV-5B25R | 1" DN25     | 5Bar/70Psi/500kPa        |
| GBV-5B40R | 1.1/2" DN40 | 5Bar/70Psi/500kPa        |
| GBV-5B50R | 2" DN50     | 5Bar/70Psi/500kPa        |

## Low Pressure Gauge

**Yamataha.**



| Type              | Size            | Maximum working pressure         |
|-------------------|-----------------|----------------------------------|
| 0-5kPa/0-50mBar   | Screw 1/2" Rc15 | S.T.L#304 OD78mm EN 837-3 CL.1.6 |
| 0-10kPa/0-100mBar | Screw 1/2" Rc15 | S.T.L#304 OD78mm EN 837-3 CL.1.6 |
| 0-10kPa/0-100mBar | Screw 3/8" Rc10 | S.T.L#304 OD78mm EN 837-3 CL.1.6 |
| 0-20kPa/0-200mBar | Screw 1/2" Rc15 | S.T.L#304 OD78mm EN 837-3 CL.1.6 |

## Push Button Valve

**Yamataha.**



| Type    | Size | Maximum working pressure |
|---------|------|--------------------------|
| PBV-1T4 | 1/4" | 5Bar/70Psi/500kPa        |
| PBV-3T8 | 3/8" | 5Bar/70Psi/500kPa        |
| PBV-1T2 | 1/2" | 5Bar/70Psi/500kPa        |

## High Precision Linear Valve

**Yamataha**



| Type    | Size | Maximum working pressure |
|---------|------|--------------------------|
| GLV-15R | 1/2" | 500mBar/7Psi/50kPa       |
| GLV-20R | 3/4" | 500mBar/7Psi/50kPa       |
| GLV-25R | 1"   | 500mBar/7Psi/50kPa       |

## Gas Leak Detector Controller

**Yamataha**



| Type            | Max Gas Leak Detector | Operating Voltage |
|-----------------|-----------------------|-------------------|
| YAMATAHA-GLD-09 | 6Point                | DC 12V            |

## Self-priming Small Pilot Burner

**Yamataha**



| Type   | Power cosummpion | Maximum working pressure |
|--------|------------------|--------------------------|
| SSPB-1 | 2.5kW~3kW        | 35~300mBar/3.5~30kPa     |

## Flame Simulator

**Yamataha**



| Type      | Applcation Brand                                                            |
|-----------|-----------------------------------------------------------------------------|
| P300BC100 | Burner Controller:Honeywell, Azbil, Kromschroder, Eclipse, Yamataha, Brahma |

## Flame Detection Rod Ignition Rod **Yamataha**

| Type                  | Size                                     | Maximum operating ambient temperature |
|-----------------------|------------------------------------------|---------------------------------------|
| Yamataha 13047        | M14x1.25 x L42                           | 1450°C (Kanthal A1)                   |
| Yamataha 10019728     | M14x1.25 x L70                           | 1450°C (Kanthal A1)                   |
| Yamataha 23045        | M14x1.25 x L101                          | 1450°C (Kanthal A1)                   |
| Yamataha 13093-3      | 1/4" NPT x L75                           | 1450°C (Kanthal A1)                   |
| Yamataha FRS-4-6      | 1/4" NPT x L150                          | 1450°C (Kanthal A1)                   |
| Yamataha 1X-X         | 1/2" NPT x L500                          | 1450°C (Kanthal A1)                   |
| Yamataha 14891        | OD8.5 x L686                             | 1450°C (Kanthal A1)                   |
| Yamataha ZE14-A1-3.5  | M14x1.25 x L600                          | 1450°C (Kanthal A1)                   |
| Yamataha C14xL140-600 | Screw 1/2" xC14xL140-Flame Rod 3.5x600mm | 1450°C (Kanthal A1)                   |
| Yamataha C14xL210-600 | Screw 1/2" xC14xL210-Flame Rod 3.5x600mm | 1450°C (Kanthal A1)                   |



## Gas air manual butterfly valve

**Yamataha.**



| Type   | Size        | Maximum working pressure |
|--------|-------------|--------------------------|
| 104BVM | 1" DN25     | 500mBar/7Psi/50kPa       |
| 106BVM | 1.1/2" DN40 | 500mBar/7Psi/50kPa       |
| 108BVM | 2" DN50     | 500mBar/7Psi/50kPa       |
| 110BVM | 3" DN80     | 500mBar/7Psi/50kPa       |

## Gas air auto butterfly valve

**Yamataha.**



| Type     | Size        | Maximum working pressure |
|----------|-------------|--------------------------|
| 104BVM-A | 1" DN25     | 500mBar/7Psi/50kPa       |
| 106BVM-A | 1.1/2" DN40 | 500mBar/7Psi/50kPa       |
| 108BVM-A | 2" DN50     | 500mBar/7Psi/50kPa       |
| 110BVM-A | 3" DN80     | 500mBar/7Psi/50kPa       |

## Rectangle AirHeat Burners

**Yamataha.**



| Type            | Fire Dimension | Power consumption ( Max Temperature 400℃)    |
|-----------------|----------------|----------------------------------------------|
| 40 RAH(DCM-10)  | W156 x H162 mm | 400,000Btu/h = 100,000Kcal/h = 117~147kW/h   |
| 80 RAH(DCM-20)  | W308 x H162 mm | 800,000Btu/h = 200,000Kcal/h = 234~293kW/h   |
| 120 RAH(DCM-30) | W460 x H162 mm | 1,200,000Btu/h = 300,000Kcal/h = 349~440kW/h |
| 160 RAH(DCM-40) | W613 x H162 mm | 1,600,000Btu/h = 400,000Kcal/h = 466~586kW/h |
| 200 RAH(DCM-50) | W765 x H162 mm | 2,000,000Btu/h = 500,000Kcal/h = 586~733kW/h |

## Yamataha 81441177-001

**Yamataha.**

USB Loader Cable: Yamataha 81441177-001

Appilcation: Upload/download parameters from the Azbil of temperature controllers with

USB 2.0 to pc computerRecorder Azbil temperature controller's data to pc computer

Or Used to copy the Azbil parameters of the old parameters to the new temperature Controller's parameters

Panel LED: PW(Usb connected to PC light power on), Tx (Transmit Data), Rx (Receive Data)

With isolation, photoelectric transmission

Support the following products:

azbil Temperature Controller Series: SDC15,SDC25/25,SDC35/36,R35,SDC45A/46A,

SDC45V/46V,DCP551,SDC15M

azbil Burner Controller Series: R25/R35, AUR450C,AUR890F/G

azbil CMC10A,

azbil Magnew 3000 PLUS

azbil Gas Flow Meterazbil CMC15G Series Controller

azbil SPG Sapphire Diaphragm Gauges SPG5/6/7/8



# Yamataha PCO-200(USB IR-Adapter interface)

Yamataha.

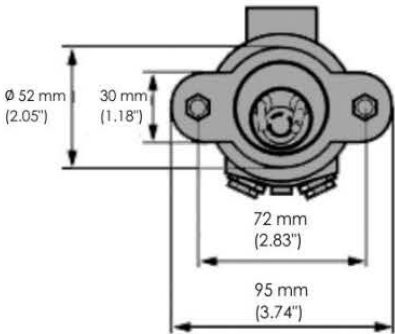
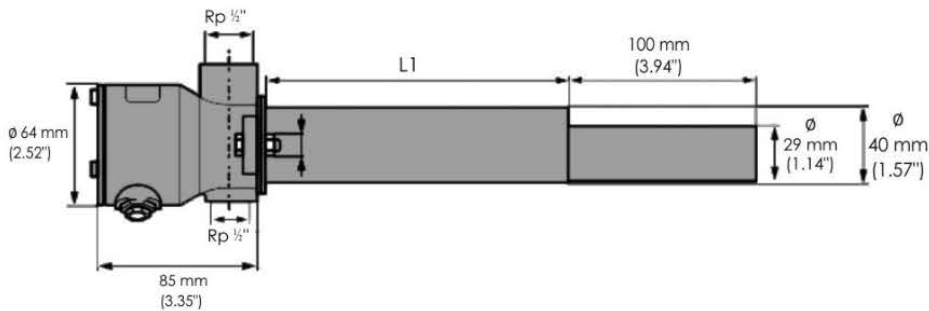
Appilcation: Upload/download parameters from the krom controllers with USB 2.0 to pc computer  
Longth: 3m =9.84ft =118inches =3000mm =300cm  
Application to the Kromschroder's following product:

|                                                                               |
|-------------------------------------------------------------------------------|
| IC 40 Actuator                                                                |
| UVC UV sensor                                                                 |
| BCU 370 Burner Controller                                                     |
| BCU 440,460,BCU 460-PB,460 L,465,465-PB,465T,480,BCU 480-PB Burner Controller |
| BCU 560,BCU 565,BCU 570,BCU 580 Burner Controller                             |
| FCU 500,FCU 505 Burner Controller                                             |
| PFA 700,710 Burner Controller                                                 |
| PFU 760,780 Burner Controller                                                 |
| PFU 778,798 Burner Controller                                                 |
| FDU 510/520 Flame Relay                                                       |



ZKIH Gas Pilot Burner

Yamataha.



Type:Yamatah ZKIH Series

Gas Size: 1/4 "

Air Size: 1/2 "

Gas Pressure: 5~50mBar(0.5~5kPa)

Air Pressure: 5~30mBar(0.5~3kPa)

Capacity Max: 5kW



| Type          | Dimensions L1 |      |
|---------------|---------------|------|
|               | mm            | inch |
| ZKIH 150/100R | 150           | 5.91 |
| ZKIH 200/100R | 200           | 7.87 |
| ZKIH 300/100R | 300           | 11.8 |
| ZKIH 400/100R | 400           | 15.7 |
| ZKIH 500/100R | 500           | 19.7 |
| ZKIH 600/100R | 600           | 23.6 |
| ZKIH 700/100R | 700           | 27.6 |
| ZKIH 800/100R | 800           | 31.5 |
| ZKIH 900/100R | 900           | 35.4 |

## ZMI Gas Pilot Burner

**Yamataha**



Flame length approx. 6 cm (2.4 inches)

| Type         | Capacity(kW) | Gas pressure(mbar) | Air pressure(mbar) |
|--------------|--------------|--------------------|--------------------|
| Natural gas* | 2.5-4.0      | 20-50              | 30-80              |
| Propane      | 2.8-4.0      | 17-40              | 38-80              |
| Town gas     | 1.5-3.3      | 20-70              | 20-80              |

|     | 16 | 25 | 28 | T | B | G | D | 150 | 200 | 300... | R | N | K |
|-----|----|----|----|---|---|---|---|-----|-----|--------|---|---|---|
| ZMI | ●  | ●  |    | ● | ● | ● | ● | ●   | ●   | ●      | ● | ● |   |

● = standard, ○ = available

| Code |    |   |   |        |   |   | Description                |
|------|----|---|---|--------|---|---|----------------------------|
| ZMI  |    |   |   |        |   |   | Pilot burner               |
|      | 16 |   |   |        |   |   | 16 mm burner size          |
|      | 25 |   |   |        |   |   | 25 mm burner size          |
|      | 28 |   |   |        |   |   | 28 mm burner size          |
|      |    | T |   |        |   |   | T-product                  |
|      |    |   | B |        |   |   | For natural gas            |
|      |    |   | G |        |   |   | For LPG                    |
|      |    |   | D |        |   |   | For town gas/coke oven gas |
|      |    |   |   | 150    |   |   | Flame tube length [mm]*    |
|      |    |   |   | 200    |   |   |                            |
|      |    |   |   | 300... |   |   |                            |
|      |    |   |   |        | R |   | Rp internal thread         |
|      |    |   |   |        | N |   | NPT internal thread        |
|      |    |   |   |        |   | K | Bellows unit               |

\* ZMI lengths as of 200 mm in 100 mm increments