IWAKI is a worldwide leading pump manufacturer. Our high quality, compact products, such as air, magnetic drive and metering pumps, are widely used in medical, laboratory and environmental control systems.

Our organization’s commitment to quality is integral with our mission statement reinforcing the importance of providing superior products and just as important, superior customer service. Iwaki quality is not just in the physical product, but in every aspect of our business.

Engineered for high performance liquid transfer

**Air-Operated Double Diaphragm Pumps**

1/4" TC-X 030/050 SERIES

- Compact design
- Flow rates up to 3 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

| Max. discharge capacity | 3 GPM (11.5 l/min) |
| Max. discharge head | 230 FT (70 m) |
| Material options | SS, Aluminum, PVDF, GFRPP, Pure Polypropylene |

3/8" TC-X 100 SERIES

- Flow rates up to 6.3 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

| Max. discharge capacity | 6.3 GPM (24 l/min) |
| Max. discharge head | 230 FT (70 m) |
| Material options | SS, Aluminum, GFRPP, Pure Polypropylene |

1/2" TC-X 150 SERIES

- Flow rates up to 15.8 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

| Max. discharge capacity | 15.8 GPM (60 l/min) |
| Max. discharge head | 230 FT (70 m) |
| Material options | SS, Aluminum, PVDF, GFRPP, Pure Polypropylene, Acetal |

3/4" TC-X 202 SERIES

- Flow rates up to 31.7 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

| Max. discharge capacity | 31.7 GPM (120 l/min) |
| Max. discharge head | 230 FT (70 m) |
| Material options | PVDF, GFRPP |

1" TC-X 252/253 SERIES

- Flow rates up to 58.1 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

| Max. discharge capacity | 58.1 GPM (220 l/min) |
| Max. discharge head | 230 FT (70 m) |
| Material options | SS, Aluminum, Cast Iron, PVDF, GFRPP |

Applications

- Wastewater Treatment Skids
- Ink Dispensing Systems
- Pavement Marking Trucks
- Commercial Laundry Systems
- Chemical Dosing Skids
- Concrete Additive Injection
- Car Wash Systems
- Paint Colorant Dispensing
- Filtration Skids
- Rental Equipment Trailers
- DEF Dispensing
### High Quality pumps, compact and simple to use

**Overview:** Compact pumps offer long life and easy integration in OEM equipment.

#### Magnetic drive pumps
**MD SERIES**
- **APN-W SERIES**
  - Flow rates up to 36 GPM and head to 67 FT
  - Magnetic drive sealless design
  - Quality construction for high efficiency and low hydraulic noise
  - Variety of pump/motor configurations and materials-Polypropylene, ETFE, PVDF
  - AC standard / DC per request (Brush and brushless)
  - OEM systems including chiller and filtration

#### Direct drive pumps
**MX SERIES, MMP SERIES**
- Flow rates up to 18.5 GPM
- Heads up to 62.3 FT
- 24/7 Brushless DC (12VDC option available)
- Compact, sealless canned motor design
- Long life in excess of 25K hours
- Low noise (as low as 40 dB)
- Only one moving part (impeller/rotor)
- Fuel cells, chillers / heaters / laser cooling

#### Gas-Liquid transfer pumps
**APN 12/24 VDC**
- Flow rates up to 600 ml/min (liquid)
- Flow rates up to 1200 ml/min (Air/gas)
- Pressures up to 11.6 PSI
- Vacuum up to 14 - 26 in Hg
- Long life diaphragms
- Compact DC motor driven designs
- Maintenance-free design
- Superior self-priming
- Designed for medical and chemical / laboratory analyzer equipment

#### Diaphragm air pumps
**MDG-R2 24 VDC**
- Flow rates up to 1.8 l/min
- Pressures up to 43.5 PSI
- Vacuum up to 30 in Hg
- Compact diaphragm design
- Liquid temperature capability up to 203°F
- Low noise (as low as 40 dB)
- Only one moving part (impeller/rotor)
- Low noise (as low as 40 dB)
- Low noise (as low as 40 dB)
- Magnetic drive sealless design

#### Magnetic drive turine pumps
**MDT SERIES**
- Flow rates up to 5.3 GPM
- Temperatures up to 303°F
- Heads up to 51 PSI
- Magnetic drive turine pump with no shaft seals
- Liquid temperature capability up to 203°F
- Pressure up to 5.8 PSI
- Liquid end parts are all non-metallic

#### Electromagnetic metering pumps
**EZ SERIES**
- High stroke rate up to 1800 SPH
- Double ball check valves
- Long lasting diaphragm
- Small, lightweight and quiet design
- High compression ratio ensures effective way to automate additions in small systems

#### Bel lows pumps
**KBR SERIES**
- Flow rates up to 2550 ml/min
- Pressures up to 5.8 PSI
- Driven by electric gear motor
- Bel lows are in Polypropylene
- Compact and extremely reliable
- Simple design, Low maintenance
- Simplex, duplex or multiplex design

### Wide range of pump technologies at your service

**Hicera pumps**
**V-05 24 VDC**
- Flow rates up to 1682 ml/min
- Pressures up to 100 PSI
- AC or DC motor options
- Temperature range of 32 - 250°F
- Body material is SUS304/316
- Valveless plunger pump capable of handling slurry & high viscous fluids
- Designed for medical & food handling equipment as well as injection of ultra pure water

**High resolution pulse pumps**
**HRP SERIES**
- High stroke rate up to 720 spm
- Ultra-Compact design (4” x 2” x 3.5”)
- Available in 12 or 24VDC for increased portability
- Vertical or horizontal porting configurations
- Highly efficient diaphragm pump
- External control functions
- Pulse control, 4-20mA control, 1-5V control, Stop control

**Syringe/Piston-type stepping pumps**
**Exmire SPV, SPX SERIES**
- High Accuracy: ±0.3% (SPV), ±0.5% (SPX)
- Repeatability: 0.03% (SPV), 0.04% (SPX)
- High Resolution: 6000 (SPV), 2000 (SPX) steps/stoke
- 4 Pump Sizes per model 100µl, 250µl, 500µl, 1000µl
- Applications: Dispensing & Aspiration, In-Vitro & Biochemical Analyzers

**In-Vitro & Biochemical Analyzers**
**Exmire SPV, SPX SERIES**
- Applications: Dispensing & Aspiration, In-Vitro & Biochemical Analyzers
- 1000µl
- 250µl
- 500µl
- 1000µl
- High Accuracy: ±0.3% (SPV), ±0.5% (SPX)
- Repeatability: 0.03% (SPV), 0.04% (SPX)
- High Resolution: 6000 (SPV), 2000 (SPX) steps/stoke
High Quality pumps, compact and simple to use

Wide range of pump technologies at your service

Compact pumps offer long life and easy integration in OEM equipment.

### Magnetic drive pumps

#### MD SERIES
- Flow rates up to 36 GPM and head to 67 FT
- Magnetic drive sealless design
- Quality construction for high efficiency and low hydraulic noise
- Variety of pump/motor configurations and materials—Polypropylene, ETFE, PVDF
- AC standard / DC per request
- Flow rates up to 18.5 GPM
- Heads up to 62.3 FT
- Patented split volute casing
- Improved efficiency and performance
- AC or DC motor options
- OEM systems including filtration, reclamation, and circulation
- Metallic or Plastic Construction
- Max. discharge capacity: 18.5 GPM (70 l/min)
- Max. discharge head: 62.3 FT (19 m)
- Power voltage: 24 VDC, 12 VDC
- Main materials: PPS, FFKM, TFE, EPDM, Ceramic

#### MX SERIES, MMP SERIES
- Flow rates up to 110 LPM (Air/gas)
- Heads up to 29 PSI
- Vacuum up to 30 Hg in Hg
- Long life diaphragms
- Compact DC motor driven designs
- Maintenance-free design
- Superior self-priming
- Designed for medical and chemical / laboratory analyzer equipment
- Max. air discharge capacity: 2.4 l/min
- Max. air discharge pressure: 11.6 PSI (0.80 MPa)
- Power voltage: 24 VDC
- Main materials: GF, PTFE, EPDM, POM

### Direct drive pumps

#### NRD/RD SERIES, DDC SERIES
- Flow rates up to 36 GPM and head to 67 FT
- Magnetic drive sealless design
- Quality construction for high efficiency and low hydraulic noise
- Variety of pump/motor configurations and materials—Polypropylene, ETFE, PVDF
- AC standard / DC per request
- Flow rates up to 1.8 l/min
- Heads up to 43.5 PSI
- Pressures up to 43.5 PSI
- Compact or DC motor options
- Compact, sealless canned motor design
- Liquid temperature capability up to 203°F
- Brushless DC motor with built-in driver
- Compact, sealless canned motor design
- 24V Brushless DC (12V option available)
- Heads up to 62.3 FT
- Flow rates up to 18.5 GPM
- Heads up to 62.3 FT
- Patented split volute casing
- Improved efficiency and performance
- AC or DC motor options
- OEM systems including filtration, reclamation, and circulation
- Metallic or Plastic Construction
- Max. discharge capacity: 18.5 GPM (70 l/min)
- Max. discharge head: 62.3 FT (19 m)
- Power voltage: 24 VDC, 12 VDC
- Main materials: PPS, FFKM, TFE, EPDM, Ceramic

### Hicara pumps

#### V-05 24 VDC
- Flow rates up to 1682 ml/min
- Pressures up to 100 PSI
- AC or DC motor options
- Available in 12 or 24VDC for increased portability
- Vertical or horizontal mounting configurations
- Highly efficient diaphragm pump
- External control functions
- Pulse control, 4-20mA control, 1-5V control, Stop control
- Max. discharge capacity: 38 ml/min
- Max. discharge pressure: 29 PSI (0.2 MPa)
- Power voltage: 24 VDC
- Main materials: SUS, PVDF, ALO, ZrO2

### High resolution pulse pumps

#### HRP SERIES
- Flow rates up to 1000 µl/stroke
- 1-5V control, Stop control
- 4-20mA control
- Pulse control
- 1-5V control, Stop control
- EZ-Timer module is a simple and effective way to automate additions in small systems
- Max. discharge capacity: 400 ml/min
- Max. discharge pressure: 1.0 MPa
- Power voltage: 115, 230 VAC
- Main materials: PVC, FKM, ALO

### Syringe/Piston-type stepping pumps

#### Exmire SPV, SPX SERIES
- Flow rates up to 2550 ml/min
- Pressures up to 5.8 PSI
- Driven by electric gear motor
- Bellows are in Polypropylene
- Compact and extremely reliable
- Simple design, Low maintenance
- Simplex, duplex or multiply design
- Max. discharge capacity: 2550 ml/min
- Max. discharge pressure: 5.8 PSI (0.04 MPa)
- Power voltage: 24 VDC
- Main materials: PP, EPDM

### Gas-Liquid transfer pumps

#### APN-W SERIES
- Flow rates up to 600 ml/min (liquid)
- Flow rates up to 1200 ml/min (Air/gas)
- Pressures up to 11.6 PSI
- Vacuum up to 24 - 26 in Hg
- Long life diaphragms
- Compact DC motor driven designs
- Maintenance-free design
- Superior self-priming
- Designed for medical and chemical / laboratory analyzer equipment
- Max. air discharge capacity: 2.4 l/min
- Max. air discharge pressure: 11.6 PSI (0.80 MPa)
- Power voltage: 24 VDC
- Main materials: GF, PTFE, EPDM, POM

### Diaphragm air pumps

#### APN 12/24 VDC
- Flow rates up to 110 LPM (Air/gas)
- Pressures up to 29 PSI
- Vacuum up to 30 Hg in Hg
- Long life diaphragms
- Compact DC motor driven designs
- Maintenance-free design
- Superior self-priming
- Designed for medical and chemical / laboratory analyzer equipment
- Max. air discharge capacity: 2.4 l/min
- Max. air discharge pressure: 11.6 PSI (0.80 MPa)
- Power voltage: 24 VDC
- Main materials: GF, PTFE, EPDM, POM

### Magnetic drive gear pumps

#### MDG-R2 24 VDC
- Flow rates up to 1.8 l/min
- Pressures up to 43.5 PSI
- AC and DC motor options
- Compact or DC motor options
- Liquid temperature capability up to 203°F
- Brushless DC motor with built-in driver
- Compact, sealless canned motor design
- 24V Brushless DC (12V option available)
- Heads up to 62.3 FT
- Flow rates up to 18.5 GPM
- Heads up to 62.3 FT
- Patented split volute casing
- Improved efficiency and performance
- AC or DC motor options
- OEM systems including filtration, reclamation, and circulation
- Metallic or Plastic Construction
- Max. discharge capacity: 18.5 GPM (70 l/min)
- Max. discharge head: 62.3 FT (19 m)
- Power voltage: 24 VDC, 12 VDC
- Main materials: PPS, FFKM, TFE, EPDM, Ceramic

### Magnetic drive turbine pumps

#### MIDI SERIES
- Flow rates up to 5.3 GPM
- Temperatures up to 203°F
- Heads up to 51 PSI
- Magnetically driven turbine pump with no shaft seals
- Applications where low flow/high head is required
- Vacuum capability of up to 8 KPa
- Liquid end parts are all non-metallic
- Body material is SUS 304/316.
- Temperature range of 32 - 250°F
- Flow rates up to 5.3 GPM
- Heads up to 51 PSI
- Power voltage: 24 VDC
- Main materials: SUS, PVDF, ALO, ZrO2

### Electromagnetic metering pumps

#### EZ SERIES
- Flow rates up to 2550 ml/min
- Pressures up to 5.8 PSI
- Driven by electric gear motor
- Bellows are in Polypropylene
- Compact and extremely reliable
- Simple design, Low maintenance
- Simplex, duplex or multiply design
- Max. discharge capacity: 2550 ml/min
- Max. discharge pressure: 5.8 PSI (0.04 MPa)
- Power voltage: 24 VDC
- Main materials: PP, EPDM

### Bellows pumps

#### KBR SERIES
- Flow rates up to 2550 ml/min
- Pressures up to 5.8 PSI
- Driven by electric gear motor
- Bellows are in Polypropylene
- Compact and extremely reliable
- Simple design, Low maintenance
- Simplex, duplex or multiply design
- Max. discharge capacity: 2550 ml/min
- Max. discharge pressure: 5.8 PSI (0.04 MPa)
- Power voltage: 24 VDC
- Main materials: PP, EPDM

### In-Vitro & Biochemical Analyzers

#### Exmire SPV, SPX SERIES
- Applications: Dispensing & Aspiration, In-Vitro & Biochemical Analyzers
- Dispersor range: 0.00167 (SPV), 0.05 (SPX) µl/pulse to 1.000 µl/pulse
- Power voltage: 24 VDC Stepper Motor Driven
- Port Connections: 1/8&quot; UNF
- Main materials: PEEK, Borosilicate Glass, Acrylic, PE

### Magnetic drive turbine pumps

#### MIDI SERIES
- Flow rates up to 5.3 GPM
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- Heads up to 51 PSI
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- Simple design, Low maintenance
- Simplex, duplex or multiply design
- Max. discharge capacity: 2550 ml/min
- Max. discharge pressure: 5.8 PSI (0.04 MPa)
- Power voltage: 24 VDC
- Main materials: PP, EPDM
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Our organization's commitment to quality is integral with our mission statement reinforcing the importance of providing superior products and just as important, superior customer service. Iwaki quality is not just in the physical product, but in every aspect of our business.

Engineered for high performance liquid transfer

Air-Operated Double Diaphragm Pumps

**1/4” TC-X 030/050 SERIES**
- Compact design
- Flow rates up to 3 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

Max. discharge capacity: 3 GPM (11.5 l/min)
Max. discharge head: 230 FT (70 m)
Material options: SS, Aluminum, PVDF, GFRPP, Pure Polypropylene

**3/8” TC-X 100 SERIES**
- Flow rates up to 6.3 GPM
- Heads up to 230 FT

Max. discharge capacity: 6.3 GPM (24 l/min)
Max. discharge head: 230 FT (70 m)
Material options: SS, Aluminum, GFRPP, Pure Polypropylene

**1/2” TC-X 150 SERIES**
- Flow rates up to 15.8 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

Max. discharge capacity: 15.8 GPM (60 l/min)
Max. discharge head: 230 FT (70 m)
Material options: SS, Aluminum, PVDF, GFRPP, Pure Polypropylene, Acetal

**3/4” TC-X 202 SERIES**
- Flow rates up to 31.7 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

Max. discharge capacity: 31.7 GPM (120 l/min)
Max. discharge head: 230 FT (70 m)
Material options: PVDF, GFRPP

**1” TC-X 252/253 SERIES**
- Flow rates up to 58.1 GPM
- Heads up to 230 FT
- Looped C™ Air Motor technology (patent pending)

Max. discharge capacity: 58.1 GPM (220 l/min)
Max. discharge head: 230 FT (70 m)
Material options: SS, Aluminum, Cast Iron, PVDF, GFRPP

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Thorough quality-control measures and constant pursuit of efficiency have helped Iwaki establish a superior production system.

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