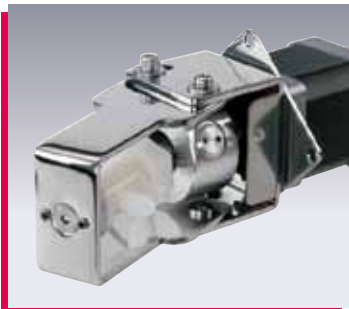




## Pumps for Medical & Analytical Applications



IWAKI is a world wide 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.



# High Quality DC pumps, compact and simple to use

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

## Gas-Liquid transfer pumps

### APN-W SERIES

- Long life design
- Oil free design
- Handles liquids with entrained gas
- Ultracompact & lightweight design reduces mechanical noise
- Brushed or BLDC motor options



APN-20W



APN-60W



APN-60W(BLDC)

|                             |                |
|-----------------------------|----------------|
| Max. air discharge capacity | 1.2 l/min      |
| Max. air discharge pressure | 0.08 MPa       |
| Max. discharge capacity     | 0.6 l/min      |
| Power voltage               | 24 VDC         |
| Main materials              | GFRPP,FKM,EPDM |

## Diaphragm air pumps

### APN 12/24 VDC

- Long life design
- Oil free design
- High efficiency



APN-085

|                             |                        |
|-----------------------------|------------------------|
| Max. air discharge capacity | 14 l/min               |
| Max. air discharge pressure | 0.08 MPa               |
| Power voltage               | 24 VDC                 |
| Main materials              | GFRPP, PTFE, EPDM, FKM |

## Direct drive pumps

### RD SERIES

- Compact plastic canned pumps
- Seal-less design eliminates leakage problems
- Threaded, quick fastener or hose connections are available
- Motor rpm can be controlled by external 1-5 V DC signal (option)



RD-05



RD-12



RD-30



RD-40



RD-40X

|                         |                 |
|-------------------------|-----------------|
| Max. discharge capacity | 70 l/min        |
| Max. discharge head     | 15 m            |
| Power voltage           | 24 VDC          |
| Main materials          | PPS, GFRPP, FKM |

## Hicera pumps

### V-05 24 VDC

- Ultra-precise repeatability
- Valve-less design avoids air lock
- 24VDC stepping motor



V-05ZOM



V-05ZF7

|                         |  |
|-------------------------|--|
| Max. discharge capacity | 30 ml/min  |
| Max. discharge pressure | 0.15 MPa   |
| Power voltage           | 24 VDC   |
| Main materials          | SUS, PVDF, Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> |

## High resolution pulse pumps

### HRP SERIES

- High stroke rate up to 720 spm
- Compact design
- Highly efficient diaphragm pump
- External control functions  
Pulse control, 4-20mA control, 1-5V control, Stop control



HRP-54V



HRP-54H

|                         |   |
|-------------------------|---|
| Max. discharge capacity | 38 ml/min                                 |
| Max. discharge pressure | 0.2 MPa                                   |
| Power voltage           | 12/24 VDC                                 |
| Main materials          | PVDF, FKM, Al <sub>2</sub> O <sub>3</sub> |

## Bellows type air pumps

### BAN SERIES

- Long life design
- Dual sealing structure
- Motor rpm can be controlled by 1-5 V DC signal



|                             |          |
|-----------------------------|----------|
| Max. air discharge capacity | 10 l/min |
| Max. air discharge pressure | 0.05 MPa |
| Power voltage               | 24 VDC   |
| Main materials              | PTFE     |

## Magnetic drive gear pumps

### MDG-R2 24 VDC

- Compact seal-less gear pump
- Liquid temperatures up to 95 °C
- Brushless DC motor with built-in driver



|                         |           |
|-------------------------|-----------|
| Max. discharge capacity | 1.8 l/min |
| Max. discharge pressure | 0.3 MPa   |
| Power voltage           | 24 VDC    |
| Main materials          | SUS, PPS  |

## Bellows pumps

### KBR SERIES

- High durability and integrally molded bellows
- Capable of acid and alkali
- Timer type is available

Note: AC models also available.



|                         |           |
|-------------------------|-----------|
| Max. discharge capacity | 90 ml/min |
| Max. discharge pressure | 0.01 MPa  |
| Power voltage           | 24 VDC    |
| Main materials          | PP, EPDM  |

## Applications

### Medical equipment

- Artificial dialysis
- Endoscope/Dialyzer reprocessing
- Biochemical analyzer
- Immunoassay analyzer
- Wound cleaning
- Blood screening
- Urine test
- Nebulizer
- Massage equipment

### Laboratory equipment

- Electrochemistry
- Flow cytometry
- Electromagnetic analysis
- Mass spectrometry
- Heat analysis
- Liquid chromatography
- Leak detection

### Environmental control systems

- Gas analyzer
- TOC analyzer
- Ground water analyzer

# Versatile compact AC pumps

Extensive series of compact AC powered pumps meet a wide variety of demands.

## Diaphragm type air pumps

### APN SERIES

- Wide range of models available
- Oil free design
- High efficiency



50/60Hz

|                             |                   |
|-----------------------------|-------------------|
| Max. air discharge capacity | 100/110 l/min     |
| Max. air discharge pressure | 0.2 MPa           |
| Power voltage               | 100, 115, 230 VAC |
| Main materials              | GFRPP, EPDM, FKM  |

## Magnetic drive pumps

### MD SERIES

- Leak free magnetic drive design
- Wide range of models available such as:  
high flow, high head, threaded connection  
and corrosive-resistant types



50/60Hz

|                         |                         |
|-------------------------|-------------------------|
| Max. discharge capacity | 135 l/min               |
| Max. discharge head     | 14.3/20.3 m             |
| Power voltage           | 100, 115, 230 VAC / IEC |
| Wet ends                | GFRPP or PVDF or ETFE   |

## Electromagnetic metering pumps

### EZ SERIES

- High stroke rate up to 360 spm
- Double ball check valves
- Long lasting diaphragm
- Small, lightweight and quiet design



|                         |  |
|-------------------------|--|
| Max. discharge capacity | 400 ml/min                               |
| Max. discharge pressure | 1.0 MPa                                  |
| Power voltage           | 230 VAC                                  |
| Main materials          | PVC, FKM, Al <sub>2</sub> O <sub>3</sub> |

## Magnetic drive gear pumps

### MDG SERIES

- Compact seal-less gear pump
- Liquid temperatures up to 95 °C
- High corrosion resistance



50/60Hz

|                         |                      |
|-------------------------|----------------------|
| Max. discharge capacity | 14/17 l/min          |
| Max. discharge pressure | 0.6 MPa              |
| Power voltage           | 100, 115, 230 VAC    |
| Main materials          | SUS, PEEK, PTFE, FKM |

Iwaki America headquarters, Holliston, MA



Iwaki Saitama plant, Japan



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



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