



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 ₂ O ₃ , ZrO ₂

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 ₂ O ₃

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 ₂ O ₃

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

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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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