IWAKI PUMPS

IWAKI Magnetic Drive Pump

MD-6/-10 type (built-in type)

Instruction Manual

⚠ Read this manual before use of product

Thank you for selecting an Iwaki MD-6/-10 type Magnetic Drive Pump. This instruction manual deals with "*Safety Instructions*", "*Outline*", "*Installation*", "*Operation*" and "*Maintenance*" sections.

Please read through this instruction manual to ensure the optimum performance, safety and service of your pump.

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This instruction manual should be kept on hand by the end user for quick reference.

Contact us or your nearest dealer if you have any questions.

Important Instruction

For the Safe and Correct Handling of the Pump

- "Safety Instruction" section deals with important details about handling of the product. Before use, read this section carefully for the prevention of personal injury or property damage.
- Observe the instructions accompanied with "WARNING" or "CAUTION" in this manual. These instructions are very important for protecting pump users from dangerous situations.
- The symbols on this instruction manual have the following meanings:

⚠ WARNING	**Nonobservance or misapplication of the contents of "Warning" section could lead to a serious accident which may result in death.**
⚠ CAUTION	**Nonobservance or misapplication of the contents of "Caution" section could lead to personal injury or property damage.**

Types of Symbols

⊘	Indicates a prohibited action or procedure. Inside or near this circle, a concrete and practical image of the activity to be avoided is depicted.
!	Indicates an important action or procedure which must be performed or carried out without fail. Failure to follow the instructions herein can lead to malfunction or damage to the pump.

⚠ Export Restrictions

Technical information contained in this instruction manual might be treated as controlled technology in your countries, due to agreements in international regime for export control.
Please be reminded that export license/permission could be required when this manual is provided, due to export control regulations of your country.

Safety Instructions

⚠ WARNING

- **Turn off power before service**
  Risk of electrical shock. Be sure to turn off power to stop the pump and related devices before service is performed.


Power off

- **Stop operation**
  If you notice any abnormal or dangerous conditions, suspend operation immediately and inspect/solve problems.



- **Do not use the pump in any condition other than its intended purpose**
  The use of the pump in any conditions other than those clearly specified may result in failure or injury. Use this product in specified conditions only.


Prohibited

- **Do not modify the pump**
  Alternations to the pump carries a high degree of risk. It is not the manufacturer's responsibility for any failure or injury resulting from alterations to the pump.


Do not rework or alter

- **Wear protective clothing**
  Always wear protective clothing such as an eye protection, chemical resistant gloves, a mask and a face shield during disassembly, assembly or maintenance work.


Wear protectors

⚠ CAUTION

- **Qualified personnel only**
  The pump should be handled or operated by a qualified personnel with a full understanding of the pump.


Prohibited

- **Use specified power only**
  Do not apply power other than that specified on the nameplate. Otherwise failure or fire may result. Ensure the pump is properly grounded.


Prohibited

- **Keep electric parts and wiring dry**
  Risk of fire or electric shock. Install the pump where it can be kept dry.


Prohibited

- **Ventilation**
  Fumes or vapours can be hazardous with certain solutions. Ensure proper ventilation at the operation site.


Caution

- **Spill precautions**
  Ensure protection and containment of solution in the event of plumbing or pump damage (secondary containment).


Caution

- **Do not use a damaged pump**
  Use of a damaged pump could lead to an electric shock or death.


Prohibited

⚠ CAUTION

- **Do not use the pump in a wet location**
  The pump is not waterproof. Use of the pump in wet or extremely humid locations could lead to electric shock or short circuit.


Prohibited

- **Do not run pump dry.**
  If the pump runs with no liquid, friction heat builds up and damages the internal parts of pump.


Prohibited

- **Do not damage the power cable**
  Do not pull, knot, or crush the power cable. Damage to the power cable could lead to a fire or electrical shock if cut or broken.


Caution

- **Grounding**
  Risk of electric shock! Always properly ground the pump. Conform to local electric codes.


Earthing

- **Install a GFCI (earth leakage breaker)**
  An electrical failure of the pump may adversely affect other devices on the same line. Purchase and install a GFCI (earth leakage breaker) separately.


Electrical shock

⚠ CAUTION

- **Damaged power cable**
  Do not use any damaged power cable for the prevention of a fire or electrical shock. The cable is not replaceable, so that the whole pump unit needs to be replaced when the cable is damaged.


Electrical shock

- **Wear part replacement**
  Follow instructions in this manual for wear part replacement. Do not dismantle the pump beyond the extent of the instructions.



- **Do not install or store the pump:**
  - Where ambient temperature falls below 0°C or exceeds 40°C.
  - Under a flammable/corrosive atmosphere.


Prohibited

- **Disposal of a used pump**
  Dispose of any used or damaged pump in accordance with local rules and regulations. If necessary, consult a licensed industrial waste disposal company.

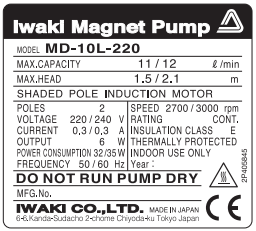


Before use, check the specification, limitation and hazardous nature of the pump.

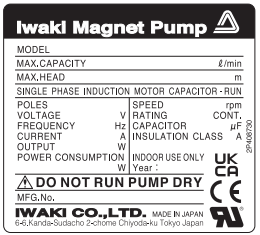
1. Unpacking & Inspection

Open the package and check that the product conforms to your order. If any problem or inconsistency is found, immediately contact your distributor.

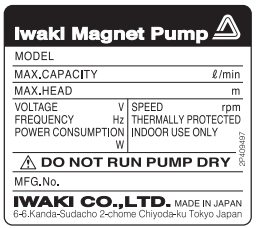
1. Check the nameplate to see if the information such as model codes, discharge capacity and discharge pressure are as ordered.



Spec label with CE marking



Spec label with CE/UKCA/UL markings



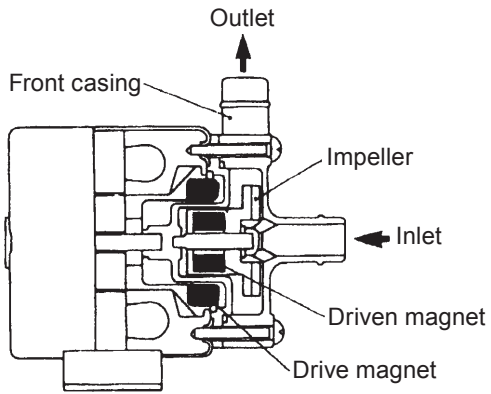
Spec label w/o CE/UKCA/UL markings

*The CE/UKCA markings on our product(s) are for us to market the product(s) into the European Union market / the Great Britain (England, Wales and Scotland) market, however, the CE/UKCA markings do not ensure any safety or conformity of the product(s) outside the EU/GB markets.
When the pump is incorporated into the equipment marketed in the EU/GB markets, such equipment must meet all the requirements of applicable directives/regulations.
In such a case, any person who places the equipment on the markets must carry CE/UKCA marks on the equipment as a manufacturer.

2. Check for transit damage and loose bolts.

2. Operating principle

The MD-6 & -10 are magnetic drive centrifugal pumps. The magnetic force of the motor drives the impeller magnet and rotates the impeller in the pump chamber, where a liquid is transferred from the inlet to outlet.



3. Specification & Identification code

Identification code

Shaded-pole motor

MD - 6Z - 230GS
a b

a. Series model	MD-6:	Low flow
	MD-6Z:	High head
	MD-10:	High flow
b. Power voltage	230GS:	220/240V
	No code:	100V (MD-10 only)

Capacitor motor

MD - 6Z - 220 E N 01
a b c d e

a. Series model	MD-6:	Low flow
	MD-6Z:	High head
	MD-10:	High flow
b. Power voltage	220:	220/240V (50/60Hz)
c. O ring material	E:	EPDM
	No code:	FKM
d. Motor	N:	Capacitor motor
e. Special version	No code:	Standard
	01-99:	Special design

Specification

50/60Hz

Model	Pump connection I.D. (mm)		Max flow (L/min)	Max head (m)	Norm flow (m-L/min)	Max SG	Motor		Mass (kg)	Max operating pressure (MPa)
	Inlet	Outlet					Power (V)	Rated output (W)		
MD-6	14	14	8/9	1.0/1.4	0.8-2.8/ 0.8-5	1.2	220/240	3	0.8	0.02
MD-6-N								5	0.9	
MD-6Z			5.5/6.0	2.1/2.7	1.5-3.2/ 1.5-4.5	1.1		3	0.8	0.04
MD-6Z-N								5	0.9	
MD-10			11/12	1.5/2.1	1-5/1-8	1.1	100/220 /240	6	0.8	0.03
MD-10-N								5	0.9	

NOTE:

a. The data above is based on pumping of clean water at ambient temperature.

b. The maximum flow is obtained at zero discharge head, and the maximum head is obtained at the maximum pressure.

c. The maximum viscosity is 30mPa•s (at SG 1.0).

d. Observe the allowable liquid temperature range below.

Model	Liquid temp.
MD-6/MD-6-N/MD-6Z/MD-6Z-N/MD-10-N	0-80C°
MD-10	0-75C°

*Note that the liquid temperature is based on the use of clean water and it changes with liquid property and operating conditions.

e. Non freezing

f. The maximum specific gravity is obtained at or near the maximum flow. Note that the limitation varies with a duty point, ambient temperature or liquid viscosity.

g. Motor type

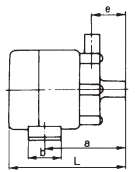
The MD-6/-10 has two motor types: the single-phase shaded-pole motor and the single-phase capacitor-run induction motor. The built-in thermal circuit which is provided to the both motor types will stop the pump when the motor temperature reaches a thermal operating temperature. The pump resumes operation after temperature falls to a return temperature.

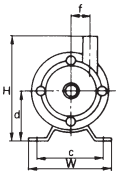
⚠CAUTION

If the built-in thermal circuit often interrupts the pump operation, it is possible that the damage to the impeller or debris has caught the impeller in the pump casing and caused the abnormal temperature rise in the motor. In this case, stop operation and contact us.

4. Outer dimensions

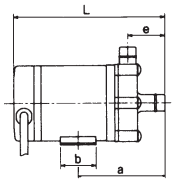
- MD-6/-6Z/-10

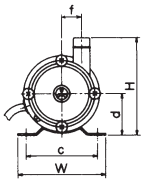




Model	W	H	L	a	b	c	d	e	f
MD-6, 6Z·10	74	92	105	73	30	60	45	31	17

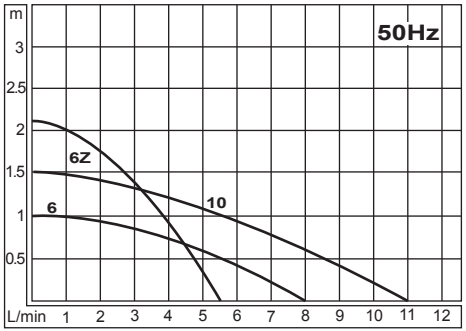
- MD-6-N/-6Z-N/-10-N

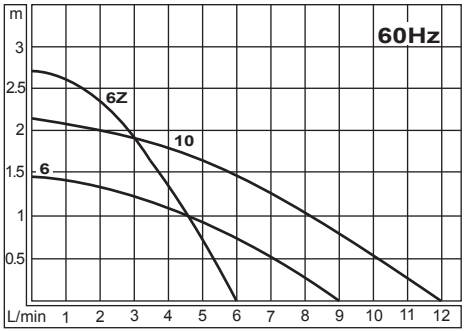




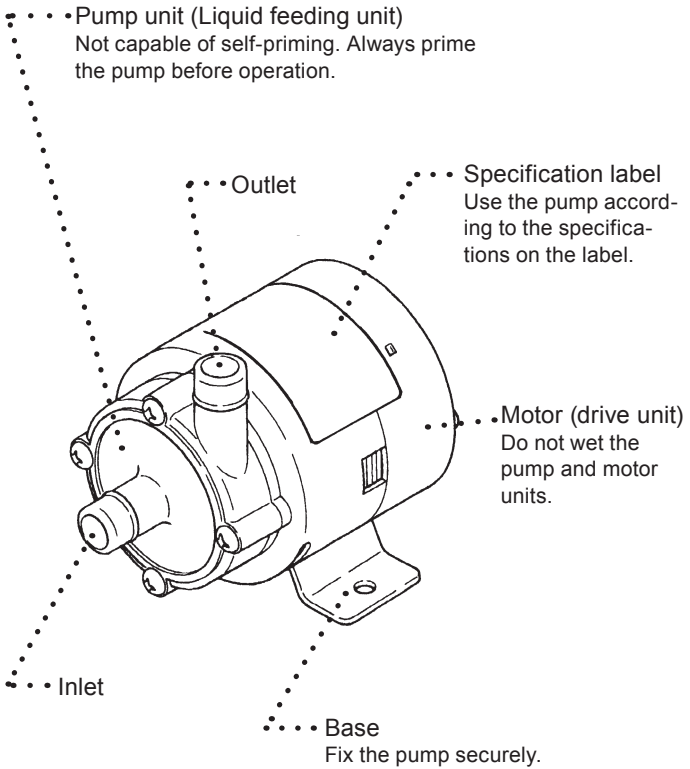
Model	W	H	L	a	b	c	d	e	f
MD-6-N, 6Z-N·10-N	74	82	129	73	30	60	35	31	17

5. Performance curves

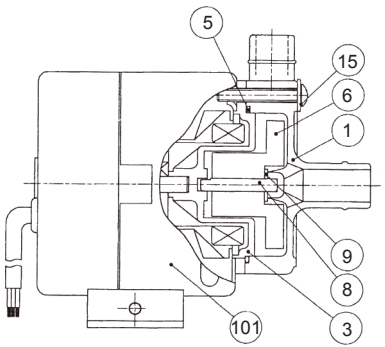




6. Overview & Label



7. Part names & Structure



No.	Part names	Q'ty	Materials	Remarks
1	Front casing	1	GFRPP	
3	Rear casing	1		
5	O ring	1	FKM/EPDM	AS568-031
6	Impeller	1	GFRPP	
8	Spindle	1	Alumina ceramic	
9	Thrust ring	1	Polyethylene	
15	Machine screw	4	Stainless steel	M4×28 with PW/SW
101	Motor	1	-	

1. Before Installation

The pump should be installed by qualified personnel with a full understanding of the pump.

⚠ WARNING

- Risk of electrical shock. Turn off power when the pump or its electrical parts has got wet with liquid. Do not touch wet parts directory.
- Do not place explosive or flammable material near the pump.
- The pump is not designed for the use in food or beverage industries. Contact us for detail.

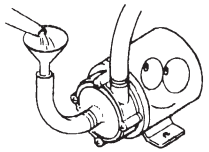
⚠ CAUTION

- A strong magnet is inside the pump. Do not bring a watch or floppy disk which may be adversely affected by a magnetic force.
- Do not run pump dry (operation with no liquid). Friction heat builds up and damages the internal parts of pump.

- Use care handling the pump. Do not drop. An impact may affect pump performance.



- The pump is not capable of self-priming. Always prime the pump before operation.



- The pump is not dust-/water-proof. Do not operate the pump while wet with solution or water.

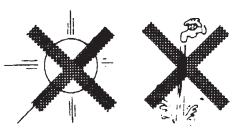


- Do not pull, knots, crush, modify, or heat the power cable. Damage to the power cable could lead to a fire or electrical shock if cut or broken. Stop operation and contact us.

- Banned solutions
  - A liquid that significantly swells the used plastics
  - Paraffinic hydrocarbons such as gasoline and kerosene
  - Halogenated hydrocarbons such as trichloroethylene and carbon tetrachloride
  - Ether and low-grade ester
  - Slurry (Never use slurry, which wears out the pump bearings.)

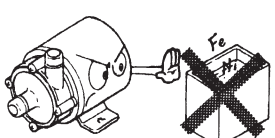
⚠CAUTION

- **Do not install or store the pump:**
  1. **Where ambient temperature exceeds 40°C or falls below 0°C.**
  2. **In a dusty/humid environment.**
  3. **In direct sunlight or wind & rain.**

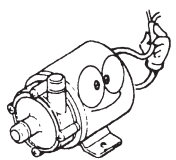




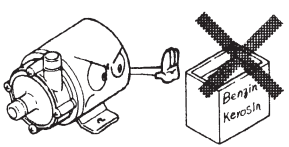
- **A strong magnet is inside the pump. Do not use the pump with any liquid which contains metals such as iron and nickel.**



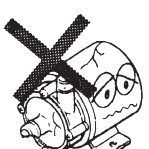
- Once the motor is turned off, wait until the motor to stop rotation (for about 30 sec) before the motor is turned on again. Or a motor failure may result, especially when ON-OFF operation is made.



- Risk of electric shock! Always properly ground the pump. Conform to local electric codes.
- To reduce the risk of electric shock or death, purchase and install a GFCI (earth leakage breaker) separately.
- Do not clean the pump or nameplate with a solvent such as benzine or thinner. This may discolor the pump or erase printing. Use a dry or damp cloth or a neutral detergent.



- Use of a damaged pump could lead to an electric shock or death.



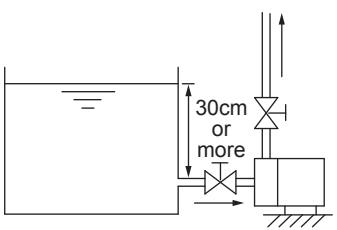
2. Installation/ Piping/ Electrical wiring

If you notice any abnormal or dangerous conditions, suspend operation immediately and inspect/solve problems.

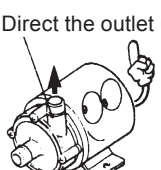
2.1 Installation

1. Install the pump:
   - Where ambient temperature will not falls below 0ºC or exceeds 40ºC.
   - Where ambient humidity is 90%RH or below.
   - Where sufficient space is kept around the pump for easy access and maintenance.

2. Mounting position
   This pump is not capable of self-priming. The pump should be installed lower than a suction liquid level.

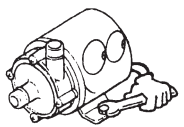


3. Outlet direction
   Always direct the outlet upward or entrained air can not be expelled.



4. Pump fixation
   Secure the pump by fixing its base. Do not install the pump with the pump inlet upwards.

5. Tube preparation
   Cut the tube ends flat before tubing.

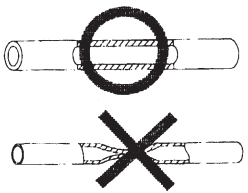




2.2 Piping

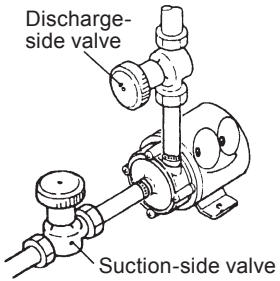
1. The short piping with the minimum bends is optimal to reduce resistance. Use a proper suction line I.D. for the prevention of cavitation.

2. Use a corrosion-/pressure-resistant vinyl tube, otherwise a suction tube can be crushed by negative pressure (especially when liquid temperature is high.). Use of a teflon or braided tube is recommended.

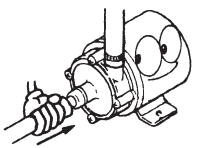


3. Select a suitable pipe I.D. for secure connection.

4. Install valves on both discharge and suction lines.
   - Suction-side valve:
     For easy pump removal and maintenance.
   - Discharge-side valve:
     For adjustment of the flow rate and discharge head.

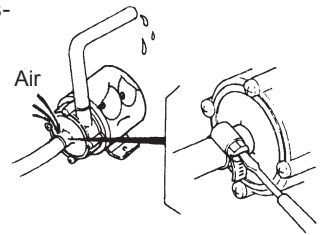


5. Insert the tube into inlet or outlet as far as it will go.



⚠CAUTION
Air is entrained if a suction tube connection is imperfect.
This may cause performance reduction, dry running and a seized impeller.

6. Use a band clamp to secure the connection and eliminate the possibility of leakage.



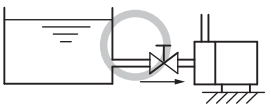
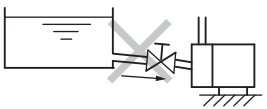
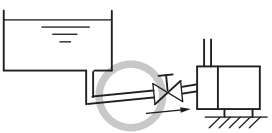
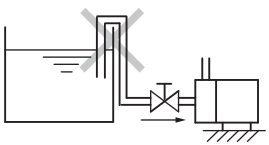
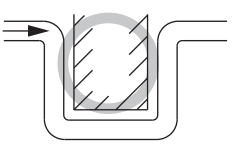
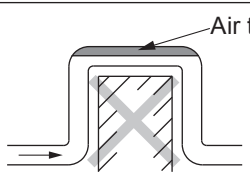
⚠CAUTION
Do not tighten the clamp too much. The plastic inlet or outlet may break.

■ Noise level during operation

Model	Noise level
MD-6	40dB
MD-6-N	
MD-6Z	
MD-6Z-N	
MD-10	
MD-10-N	

*Noise level is measured in A scale at a distance of 1m.

■ Suction line examples

Acceptable	Unacceptable
 Flooded suction	 Descending gradient
 Ascending gradient	 Suction lift
 U-shaped piping	 Arched piping

2.3 Electrical wiring

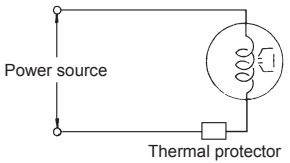
Electrical wiring must be performed by a qualified electrician. Otherwise, personal injury or property damage could result. Contact us or your nearest distributor for wiring as necessary.

■ Before wiring

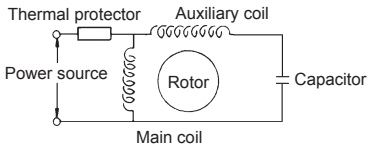
1. Check that the main power is turned off.
2. Electrical work should be performed in accordance with local electric codes, with an appropriate wire gauge or so.
3. Apply the specified power voltage. See the spec label.
4. The pump doesn't have an ON-OFF switch and so starts as a power cable is plugged in.
5. Earth the pump through the earth terminal.
6. Install the pump where it can be kept dry. Ensure proper ventilation at the operation site as well.
7. When an earth leakage breaker is used and has blown out, always investigate and solve root causes. Be sure to unplug the pump before investigation is performed.

■ Connection diagram

MD-6/-6Z/-10



MD-6-N/-6Z-N/-10-N



■ Rated current & Starting current 50/60Hz

Model	Power voltage	Rated current	Starting current
MD-6	220/240V	0.15A/0.14A	0.23A/0.2A
MD-6-N		0.07A/0.07A	0.1A/0.1A
MD-6Z		0.30A/0.30A	0.35A/0.34A
MD-6Z-N		0.08A/0.08A	0.1A/0.1A
MD-10		0.30A/0.30A	0.35A/0.34A
MD-10-N		0.08A/0.09A	0.1A/0.1A
MD-10	100V	0.50A/0.50A	0.75A/0.75A

1. Before operation

Read through this section before use.

⚠ CAUTION

- Before operating the pump, check that the pump is securely fixed.
- If foreign matters enter the pump, turn off power and remove them, otherwise failure or malfunction may result.
- Do not run pump dry (operation with no liquid). Friction heat builds up and damages the internal parts of pump.

1. Before operation, check that the pump is firmly installed in piping via the inlet and outlet.
2. Do not run the pump with a discharge/suction valve closed.
3. Do not open/narrow a discharge or a suction line sharply, otherwise the magnetic coupling*¹ may be disconnected*². (In this case turn off power once. The the drive and driven magnets will be coupled again as the pump is turned on.)

Word & Terms:
*¹ A pair of drive and driven magnets
*² The condition that a driven magnet (combination of impeller and magnet capsule units) does not rotate in sync with the drive magnet.

■ Operation

Operate the pump in accordance with the following procedures.

No.	Procedure	Points to be checked
1	Check piping, wiring and voltage.	• See "2.2 Piping" and "2.3 Electrical wiring" sections. • Check the spec label to see if power supply voltage is correct.
2	Open or close the valves.	• Fully open a suction-side valve. • Fully close a discharge-side valve.
3	Prime the pump chamber.	• Prime the pump with liquid whether flooded suction application or suction lift application. Note: If the pump is not filled with priming liquid, perform degassing to expel air from the pump. See the ■ Degassing section on the next page.
4	Supply power to the pump.	• Check the item 1, 2 and 3. Then turn on power and start the pump.

No.	Procedure	Points to be checked
5	Adjust discharge capacity & discharge head to specified level.	• Open a discharge-side valve gradually until a flow and a head reach a specified level. Do not open or close the valve sharply. Note: Do not keep a discharge-side valve closed more than 1 minute once the pump has started. Note: Check that the pump transfers a liquid without trouble. If there is a problem, turn off power immediately and solve causes. See the ***1. Troubleshooting*** section.
6	Check the operation.	• Do not allow foreign matters to enter the pump. Foreign matters may cause the impeller to be locked, hindering liquid circulation. In this case turn off power immediately (Contact us). • Turn off power when an earth leakage breaker has operated. Investigate a root cause on the basis of the troubleshooting section.

■ Degassing

Open the discharge line. The end of the line immersed in liquid is not ideal for degassing. Take it out from liquid as necessary. Run the pump for 1 second and repeat the 1-second operation until the trapped air is removed (from 3 to 5 times).

■ Shutdown

No.	Procedure	Description
1	Close the discharge line.	Close the discharge-side valve gradually. Do not cause sharp closure by using a solenoid valve.
2	Turn off power.	Check if a motor stops rotating smoothly as turning off power. If it is not smooth, check the motor. Contact us for detail.

■ Before a long period of storage

Empty the pump before it is left stopped for a long time. Run the pump with clean water for 5 minutes every 3 months to prevent the motor bearing from being rusty and stuck.

1. Troubleshooting

If you notice any abnormal or dangerous conditions, suspend operation immediately and inspect/solve problems. Contact us or your nearest distributor as necessary.

Phenomenon / Causes	The pump does not run.	Poor discharge head	Overcurrent	Noise and vibration problem	Leakage	Measure
Wrong wiring	○		○			Inspect wiring. Rewire as necessary.
Motor failure	○		○			Contact us.
Air is trapped.		○		○		Eliminate air.
Air suction from the inlet		○				Check suction piping.
Dry running		○	○	○		Check conditions before operation.
Too high SG or viscosity	○	○	○			Replace with suitable pump.
Impeller magnet hits the rear casing		○	○	○		Contact us.
Impeller is damaged.	○	○	○	○		Contact us.
Foreign matters on the impeller.		○	○	○		Contact us.
O ring is damaged					○	Contact us
Pump head mounting screws are loose.		○			○	Tighten the mounting screws.

2. Maintenance & Inspection

Handling of the pump, maintenance and inspection should be carried out within this instruction manual. It is not the manufacturer's responsibility for personal injury or property damage resulting from unauthorized service. Contact us or your nearest distributor as necessary.

■ Retightening

After a long period of operation or storage, the pump head mounting screws may be loose. Tighten the mounting screws by 1.8N•m periodically. Do not use excess force. The plastic parts may break.

■ Daily inspection

Always check for abnormality in vibration, noise, a current value, and a discharge capacity. If you notice any abnormal or dangerous conditions, suspend operation immediately and inspect/solve problems according to the troubleshooting section.

■ Assembly & disassembly

⚠CAUTION

Before taking apart the pump, make sure the pump is empty and dry. Take measures to keep electric parts and wiring dry.

1. Remove the four screws (15).
2. Remove the front casing (1).
3. Remove the impeller (6) together with the thrust ring (9) from the rear casing. Be careful not to lose the thrust ring.
4. Remove the O ring (5) from the rear casing.
5. Pull out the spindle (8) from the rear casing.

⚠CAUTION

Protect the motor from debris or liquid.

⚠CAUTION

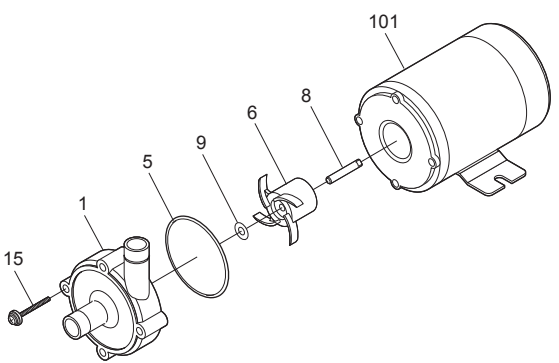
Do not remove the rear casing from the motor. Or damage or failure may result.

■ Wear parts

To run the pump for a long period, wear parts such as the impeller, thrust ring and O ring need to be replaced periodically. Contact us for detail.

- Replace wear parts before the end of estimated life.
- The estimated life below is calculated based on the continuous operation with clean water at ambient temperature and changes with operating conditions.
- Do not send slurry with this pump.
- Replace O ring with new one every time the pump is taken apart for maintenance.

No.	Parts	Estimated life
5	O ring	10,000hours
6	Impeller	
8	Spindle	
9	Thrust ring	
101	Motor	



3. Drainage

No drain port is provided to this pump. See drainage procedure below.

⚠ WARNING

- Turn off power before service.
- Always wear protective clothing such as an eye protection, chemical resistant gloves, a mask and a face shield during disassembly, assembly or maintenance work.

⚠ CAUTION

- Before taking apart the pump, make sure the pump is empty and dry. Take measures to keep electric parts and wiring dry.
- Do not drain chemical liquids directly on the ground or the floor. Dispose of chemicals in accordance with local rules and regulations.
- The pump is not dust-/water-proof. Do not operate the pump while wet with solution or water.

■ Procedure

1. Be sure to turn off power to stop the pump and related devices before service is performed.
2. Close a discharge and a suction valve fully.
3. Place a container under the pump and loosen tube clamps. Pull out tubes from the inlet and outlet.

⚠ CAUTION

Be careful not to get wet with chemical liquid.

4. Unfix and take out the pump.
5. Direct the inlet downwards to run off liquid in a container.

EC DECLARATION OF CONFORMITY

A copy of the original Declaration of Conformity

(SUPPLIER'S NAME)
WE
IWAKI CO.,LTD.

(ADDRESS)
6-6 2-CHOME KANDA-SUDACHO CHIYODA-KU TOKYO JAPAN

(PRODUCT)
DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE PRODUCTS
MAGNETIC DRIVE PUMP

(MODEL NAME)
MD SERIES

TO WHICH THIS DECLARATION RELATES ARE IN CONFORMITY
WITH THE FOLLOWING STANDARDS OR DIRECTIVES AS FAR AS APPLICABLE

(DIRECTIVES)
MACHINERY DIRECTIVE 2006/42/EC (ANNEX IIA)
RoHS DIRECTIVE 2011/65/EU

(STANDARDS)
EN ISO12100:2010 EN809:1998+A1:2009 EN IEC63000:2018

(A PERSON WHO IS AUTHORISED TO COMPILE THE TECHNICAL FILE
IN THE COMMUNITY)
IWAKI EUROPE GMBH
SIEMENSRING 115 D-47877 WILLICH GERMANY

NOTE: THIS DECLARATION BECOMES INVALID IF TECHNICAL OR OPERATIONAL MODIFICATIONS ARE INTRODUCED WITHOUT THE MANUFACTURER'S CONSENT.

T. Sawada.

TSUTOMU SAWADA
DEPUTY SENIOR GENERAL MANAGER,
QUALITY ASSURANCE HEAD OFFICE

Tokyo, Sep. 2, 2021

(PLACE AND DATE OF ISSUE) **(NAME AND SIGNATURE OR EQUIVALENT MARKING OF AUTHORIZED PERSON)**

DOCUMENT NO. IS-51K-449-4

UK DECLARATION OF CONFORMITY

A copy of the original Declaration of Conformity

(SUPPLIER'S NAME)
WE
IWAKI CO.,LTD.

(ADDRESS)
6-6 2-CHOME KANDA-SUDACHO CHIYODA-KU TOKYO JAPAN

(PRODUCT)
DECLARE UNDER OUR SOLE RESPONSIBILITY THAT THE PRODUCTS
MAGNETIC DRIVE PUMP

(MODEL NAME)
MD SERIES

TO WHICH THIS DECLARATION RELATES ARE IN CONFORMITY WITH THE
FOLLOWING REGULATIONS OR STANDARDS AS FAR AS APPLICABLE

(REGULATIONS)
S.I. 2008/1597 SUPPLY OF MACHINERY (SAFETY)
S.I. 2012/3032 RESTRICTION OF HAZARDOUS SUBSTANCES

(STANDARDS)
EN ISO12100:2010 EN809:1998+A1:2009 EN IEC63000:2018

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STEVENAGE HERTS SG1 3QP UK

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TSUTOMU SAWADA
SENIOR GENERAL MANAGER,
QUALITY ASSURANCE HEAD OFFICE

Tokyo, Jun. 6, 2023

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DOCUMENT NO. IS-51K-603-1

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