

Magnetic drive pumps

A worldwide best-seller,
our high-quality compact magnetic drive pumps



Main material
GFRPP

Magnetic drive pumps

Magnetic drive seal-less pumps are free from leakage problems and the need for seal replacement. This feature and their compact nature make them ideal for built-in applications.



A worldwide best-seller, our high-quality compact magnetic drive pumps

Our MD series leak-free compact magnetic pumps are a worldwide best-seller and are used in medical equipment, analyzers, constant-temperature baths and surface treatment equipment for chemical feeding in more than thirty countries worldwide.

Leak free

Magnetic drive seal-less pumps are free from leakage problems and the need for seal replacement. This feature and their compact nature make them ideal for built-in applications.

Large selection

The MD series comprises 50 models. The high-head type(MD-Z), the high flow type(MD-X) and threaded connection type(MD-M) are available as well as a standard type. The MD series offers the largest selection in the world.



MD-6



MD-10

MD-6·10

- Max Discharge capacity **5.5/6.0 - 11/12** l/min
- Max Discharge head **1.0/1.4 - 2.1/2.7** m



MD-15R



MD-20R



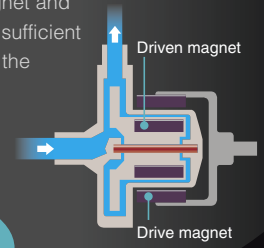
MD-30R

MD-15·20·30·40

- Max Discharge capacity **10/11 - 75/85** l/min
- Max Discharge head **1.8/2.5 - 11.5/13.5** m



The centrifugal pump is driven by a pair of magnets which are incorporated in the impeller and motor shaft. The sealless pump structure eliminates shaft seals such as conventional mechanical seals because the pump chamber is shielded by the casings and the impeller is operated by the magnets. The combined coupling torque of the drive magnet and impeller magnet gives sufficient driving power against the motor torque.



Operating Principle

High corrosion-resistance

GFRPP(Grass fiber reinforced polypropylene) wet ends of the MD series handle a wide range of chemicals.

Easy maintenance

The pump unit is comprised of a small number of integrated parts, so maintenance is greatly simplified.



MD-40R



MD-55R



MD-70R



MD-100R

MD-55·70·100 GFRPP 50/60Hz

- Max Discharge capacity **40/43 - 135/135** l/min
- Max Discharge head **5.6/8.2 - 14.3/20.3** m

Wide variation

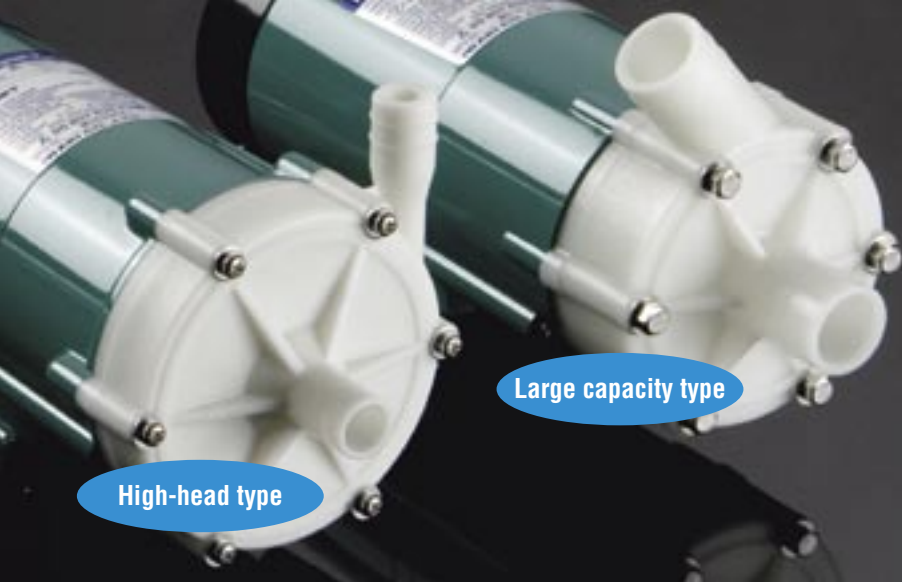
Easy maintenance

The MD series has GFRPP wet ends. Hose connections, threaded connections and flange connections (only 70-100 size) are available. A large selection of models offer a wide flow range of 8.0-135L/min.



Outline of the series

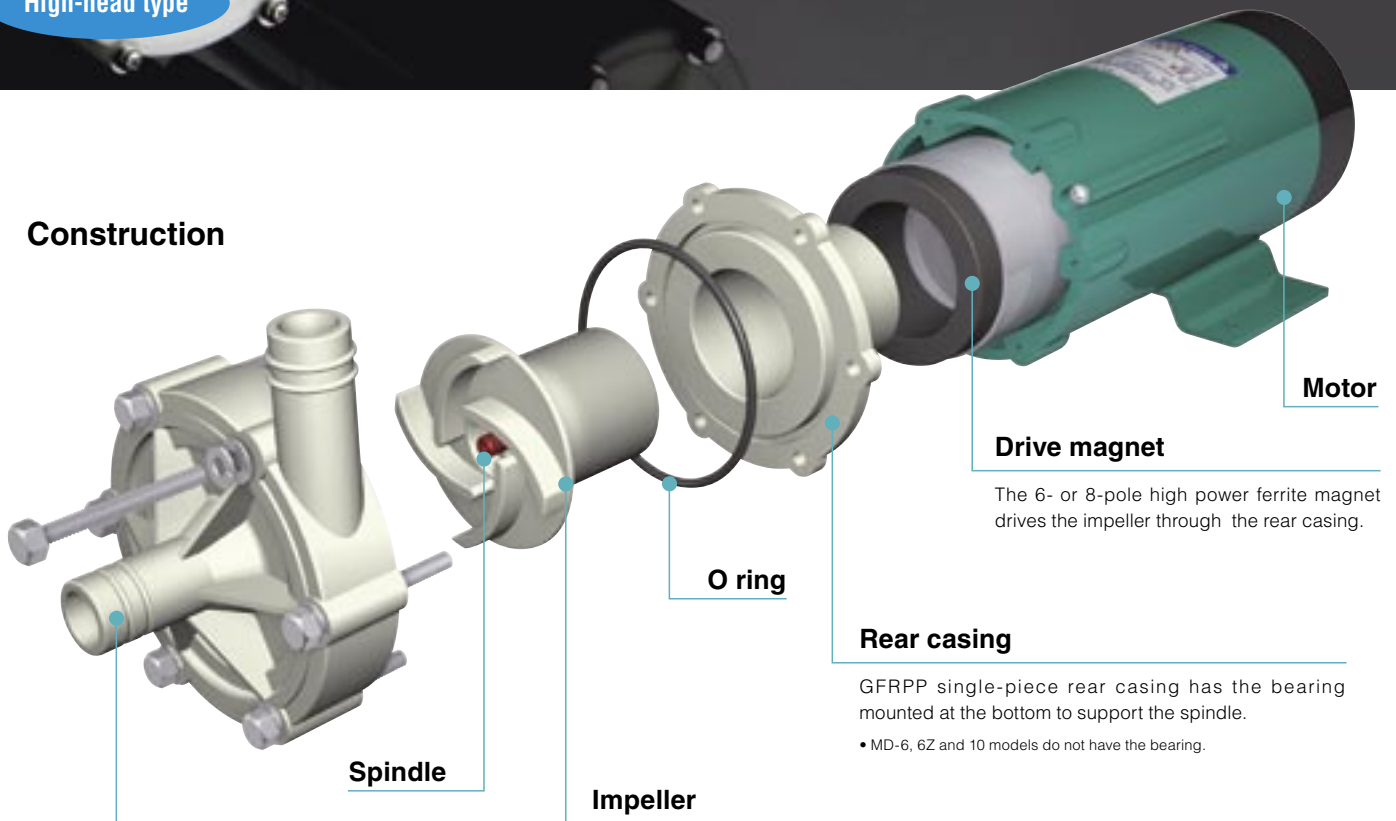
| Main Material | Models | Max. discharge capacity (l/min) | | | | | | | Max. discharge head (m) | | | | Limit of specific gravity | |
|----------------------------------|---------------------------------------|---------------------------------|-----|----|----|-----|-----|-----|-------------------------|-----|----|----|---------------------------|-----|
| | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 5 | 10 | 15 | 20 | | |
| GFRPP | MD-6 Standard type | 50Hz | 8.0 | | | | | | | 1.0 | | | | 1.2 |
| | | 60Hz | 9.0 | | | | | | | 1.4 | | | | |
| | MD-6Z High head type | 50Hz | 5.5 | | | | | | | 2.1 | | | | 1.1 |
| | | 60Hz | 6.0 | | | | | | | 2.7 | | | | |
| | MD-10 Standard type | 50Hz | 11 | | | | | | | 1.5 | | | | 1.1 |
| | | 60Hz | 12 | | | | | | | 2.1 | | | | |
| | MD-15R Standard type | 50Hz | 16 | | | | | | | 2.4 | | | | 1.3 |
| | | 60Hz | 19 | | | | | | | 3.4 | | | | |
| | MD-20R Standard type | 50Hz | 27 | | | | | | | 3.1 | | | | 1.1 |
| | | 60Hz | 31 | | | | | | | 4.3 | | | | |
| | MD-20RX Large capacity type | 50Hz | 46 | | | | | | | 1.8 | | | | 1.3 |
| | | 60Hz | 52 | | | | | | | 2.5 | | | | |
| | MD-20RZ High head type | 50Hz | 10 | | | | | | | 4.6 | | | | 1.1 |
| | | 60Hz | 11 | | | | | | | 6.9 | | | | |
| | MD-30R Standard type | 50Hz | 32 | | | | | | | 3.8 | | | | 1.3 |
| | | 60Hz | 38 | | | | | | | 5.4 | | | | |
| | MD-30RX Large capacity type | 50Hz | 62 | | | | | | | 2.9 | | | | 1.1 |
| | | 60Hz | 72 | | | | | | | 4.1 | | | | |
| | MD-30RZ High head type | 50Hz | 15 | | | | | | | 8.0 | | | | 1.0 |
| | | 60Hz | 17 | | | | | | | 11 | | | | |
| | MD-40R Standard type | 50Hz | 45 | | | | | | | 4.6 | | | | 1.1 |
| | | 60Hz | 52 | | | | | | | 6.5 | | | | |
| | MD-40RX Large capacity type | 50Hz | 75 | | | | | | | 3.3 | | | | 1.1 |
| | | 60Hz | 85 | | | | | | | 4.7 | | | | |
| MD-40RZ High head type | 50Hz | 22 | | | | | | | 10 | | | | 1.0 | |
| | 60Hz | 22 | | | | | | | 13.5 | | | | | |
| MD-40RZ-5 50Hz only | 50Hz | 11 | | | | | | | 11.5 | | | | 1.0 | |
| MD-55R Standard type | 50Hz | 60 | | | | | | | 5.6 | | | | 1.2 | |
| | 60Hz | 70 | | | | | | | 8.2 | | | | | |
| MD-55R-5 50Hz only | 50Hz | 70 | | | | | | | 8.2 | | | | 1.2 | |
| MD-70R Standard type | 50Hz | 86 | | | | | | | 6.7 | | | | 1.0 | |
| | 60Hz | 97 | | | | | | | 9.7 | | | | | |
| MD-70RZ High head type | 50Hz | 40 | | | | | | | 14.3 | | | | 1.0 | |
| | 60Hz | 43 | | | | | | | 20.3 | | | | | |
| MD-100R Standard type | 50Hz | 120 | | | | | | | 8.6 | | | | 1.2 | |
| | 60Hz | 135 | | | | | | | 11.9 | | | | | |
| MD-100R-5 50Hz only | 50Hz | 135 | | | | | | | 11.7 | | | | 1.1 | |



High-head type

Large capacity type

Construction



Motor

Drive magnet

The 6- or 8-pole high power ferrite magnet drives the impeller through the rear casing.

O ring

Rear casing

GFRPP single-piece rear casing has the bearing mounted at the bottom to support the spindle.

- MD-6, 6Z and 10 models do not have the bearing.

Spindle

Impeller

The ferrite magnet is encapsulated into the impeller. For rotating spindle models, an alumina ceramic spindle is integrally molded with the impeller. Open, closed or semi-open type impellers can be selected according to performance requirements.

- MD-6, 6Z and 10 models use a fixedspindle design.

Front casing

Hose or threaded connections can be selected according to application. Also flanges or union joints can be installed on threaded connection models.

- MD-6, 6Z and 10 models do not have thread connection type.



Hose connection type Thread connection type



Standard type R High-head type RZ Large-capacity type RX

MD-6.10

GFRPP
50/60 Hz

- Range of Max. discharge capacity: **5.5/6.0 - 11/12** L/min
- Range of Max. discharge head: **1.0/1.4 - 2.1/2.7** m



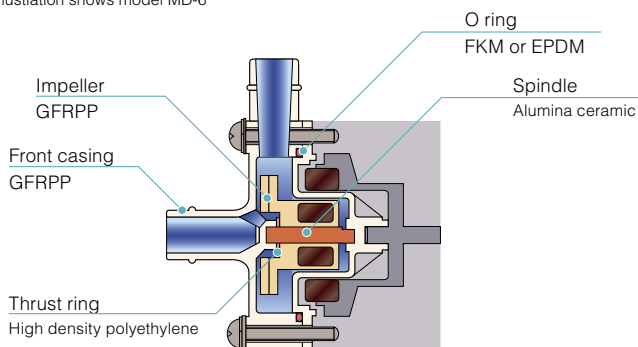
Specifications (50/60Hz)

| Model | Hose connection | | Max. Capacity L/min | Max. Head m | S.G. | Output W | Input W | Phase | Mass kg |
|-------|-----------------|-------------|------------------------|----------------|------|-------------|------------|----------------------|------------|
| | Inlet (mm) | Outlet (mm) | | | | | | | |
| MD-6 | 14 | 14 | 8.0 / 9.0 | 1.0 / 1.4 | 1.2 | 5 / 5 | 12 / 12 | 100V Single phase | 0.9 |
| MD-6Z | | | 5.5 / 6.0 | 2.1 / 2.7 | 1.1 | | 13 / 16 | | |
| MD-10 | | | 11 / 12 | 1.5 / 2.1 | 1.1 | | 13 / 15 | | |

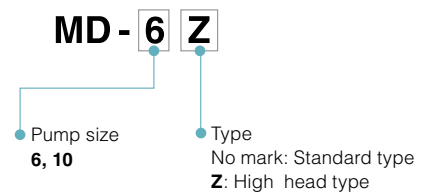
- Temperature range: 0 - 80°C (Contact us for applications below zero.)
- Limit of viscosity: 30 mPa·s (at 1 S.G.)
- Ambient temperature: 0 - 40°C
- Motor type: Capacitor-run induction motor
- MD-6, 6Z and 10 do not have thread connection type.

Construction and materials

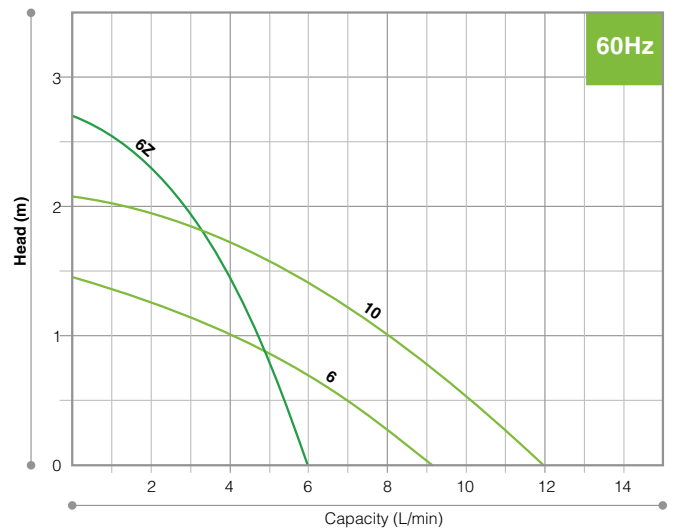
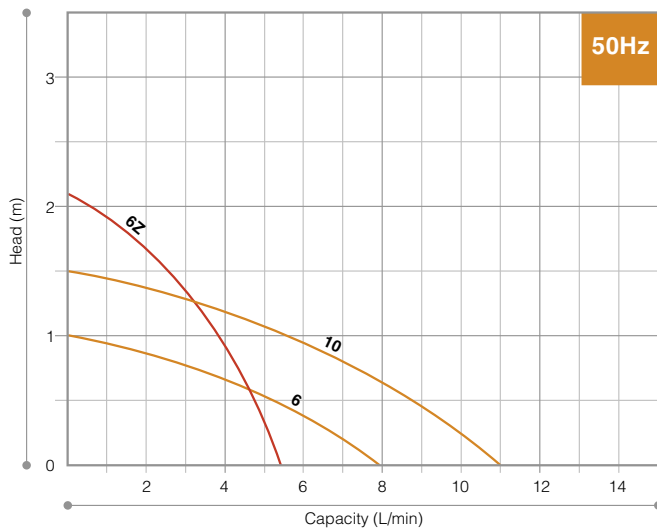
Illustration shows model MD-6



Pump identification

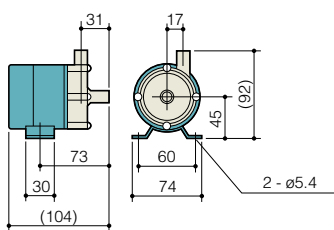


Performance curves

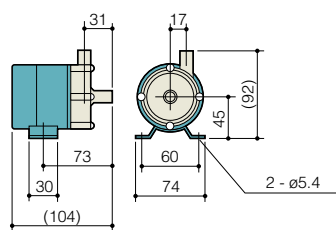


Dimensions (mm)

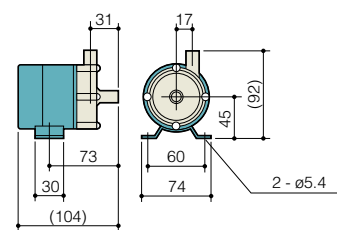
MD-6



MD-6Z



MD-10



MD-15·20·30·40 GFRPP 50/60 Hz

- Range of Max. discharge capacity: 10/11 - 75/85 L/min
- Range of Max. discharge head: 1.8/2.5 - 11.5/13.5 m



Specifications (50/60Hz)

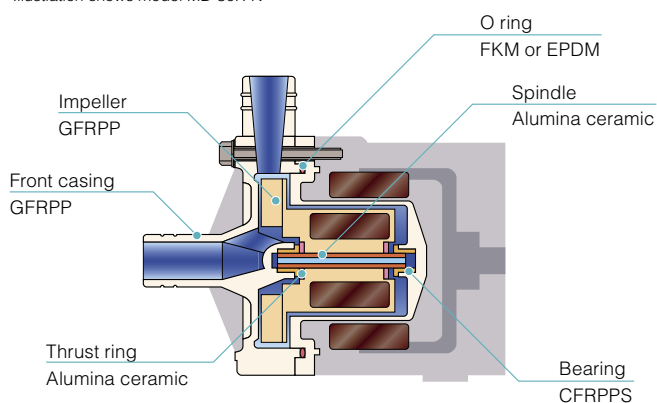
| Model | Hose connection | | Thread connection | | Max. Capacity (L/min) | Max. Head (m) | S.G. | Output (W) | Input (W) | Power source | Mass (kg) |
|-----------|-----------------|-------------|-------------------|-------------------------------|--------------------------|------------------|------|---------------|----------------------|--|--------------|
| | R · RZ · RX | | R-M · RZ-M · RX-M | | | | | | | | |
| | Inlet (mm) | Outlet (mm) | Inlet/Outlet | Union (mm) ^(Note1) | | | | | | | |
| MD-15R | 14 | 14 | G3/4 | 13 | 16 / 19 | 2.4 / 3.4 | 1.3 | 10 / 10 | 26 / 31 | 100V/200V Single phase 220V - 240V Single phase | 1.6 |
| MD-20R | 18 | 17 | G3/4 | 16 | 27 / 31 | 3.1 / 4.3 | 1.1 | 20 / 20 | 40 / 50 | | 2.0 |
| MD-20RX | 26 | 26 | G1 | 20 | 46 / 52 | 1.8 / 2.5 | 1.3 | | | | 45 / 45 |
| MD-20RZ | 17.5 | 17 | G3/4 | 13 | 10 / 11 | 4.9 / 6.9 | 1.1 | | | | |
| MD-30R | 20 | 20 | G3/4 | 16 | 32 / 38 | 3.8 / 5.4 | 1.3 | | | | |
| MD-30RX | 26 | 26 | G1 | 20 | 62 / 72 | 2.9 / 4.1 | 1.1 | 65 / 65 | 90 / 130 85 / 120 | 3.9 | |
| MD-30RZ | 17.5 | 17 | G3/4 | 13 | 15 / 17 | 8.0 / 11 | 1.0 | | | | |
| MD-40R | 20 | 20 | G3/4 | 16 | 45 / 52 | 4.6 / 6.5 | 1.1 | 140 / 200 | | | |
| MD-40RX | 26 | 26 | G1 | 20 | 75 / 85 | 3.3 / 4.7 | | | | | |
| MD-40RZ | 20 | 20 | G3/4 | 16 | 22 / 22 | 10 / 13.5 | 1.0 | 65 / - | 140 / - | | |
| MD-40RZ-5 | | | | | 11 / - | 11.5 / - | | | | | |

- Temperature range: 0 - 80°C (Contact us for applications below zero.) • Limit of viscosity: 30 mPa·s (at 1 S.G.) • Ambient temperature: 0 - 40°C
- Motor type: Capacitor-run induction motor

Note 1: The union field shows the nominal diameter of the applicable VP vinyl chloride hose. Heat resistance of the standard union is 0 - 55°C and that of the heat resistant union is 0 - 80°C.
Note 2: Single phase of 200V model is special order. Please contact us for details.

Construction and materials

Illustration shows model MD-30R-N



MD - 30 RZ - 5 M - 200 E N

- Pump size
15, 20, 30, 40
- Type
R: Standard type
RZ: High head type
RX: High capacity type
- Frequency
No mark: common 50/60Hz
- 5: 50Hz only (for 40RZ)
- Material of O ring
No mark: FKM (Standard)
E: EPDM (Special order)
- Motor
No mark: 100V single phase
200: 200V single phase
220: 220V - 240V single phase
- Connection
No mark: Hose type
M: G thread connection

30

MD-30R

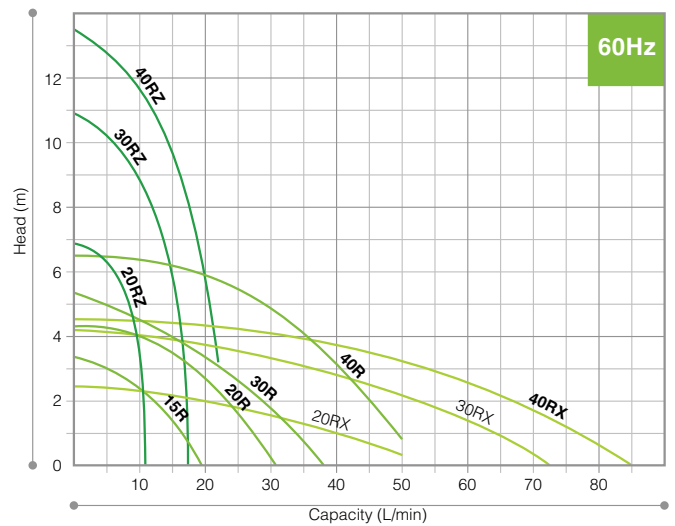
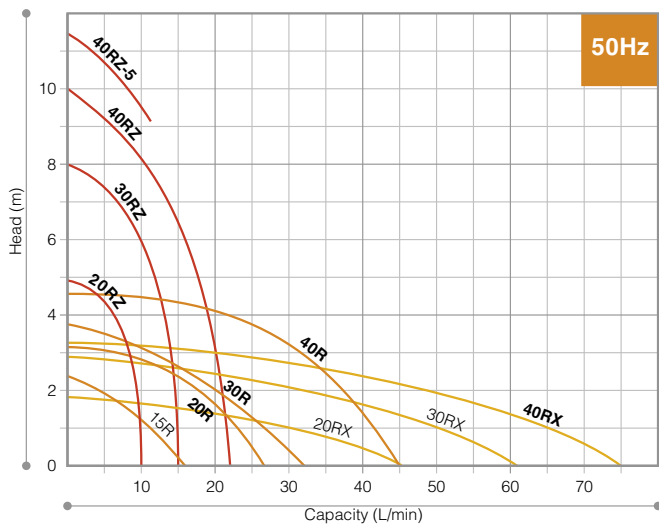


40

MD-40R



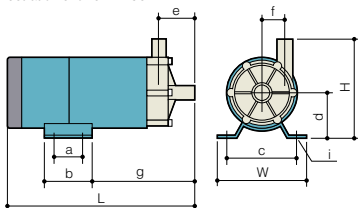
Performance curves



Dimensions (mm)

MD-15R-20R-30R-40R

Illustration shows MD-30R-N

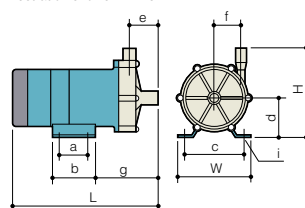


| Model | W | H | L | a | b | c | d | e | f | g | i |
|--------|-----|--------------|--------------|----|----|-----|----|------------|----|------------|----------------|
| MD-15R | 95 | 109 (114) | 180 (179) | - | 50 | 68 | 55 | 39 | 22 | 92 | 2 - ϕ 5.6 |
| MD-20R | 106 | 105 (107) | 209 (203) | 44 | 60 | 90 | 45 | 39 (33) | 29 | 94 (88) | 4 - 6x10 |
| MD-30R | 120 | 130 | 248 | 40 | 64 | 100 | 60 | 48 | 31 | 137 | 4 - ϕ 9 |
| MD-40R | | | 250 | | | | | | | | |

• Dimension of the () inside are thread connection type.

MD-20RZ-30RZ-40RZ

Illustration shows MD-20RZ-N



| Model | W | H | L | a | b | c | d | e | f | g | i |
|-----------|-----|--------------|-----|----|----|-----|----|----|----|-----|--------------|
| MD-20RZ | 106 | 125 | 211 | 44 | 60 | 90 | 55 | 40 | 39 | 98 | 4 - 6x10 |
| MD-30RZ | | | 230 | | | | | | | 120 | |
| MD-40RZ | | | 241 | 40 | 64 | 100 | 60 | 39 | 45 | 128 | 4 - ϕ 9 |
| MD-40RZ-5 | | | | | | | | | | | |
| MD-20RX | 106 | 119 (122) | 220 | 44 | 60 | 90 | 45 | 47 | - | 105 | 4 - 6x10 |
| MD-30RX | | | 254 | | | | | | | 143 | |
| MD-40RX | 120 | 137 (141) | 256 | 40 | 64 | 100 | 60 | 50 | - | 143 | 4 - ϕ 9 |

• Dimension of the () inside are thread connection type.

• RZ type (Hose connection) and RZM type (Thread connection type) are the same dimensions.

MD-55.70.100

GFRPP
50/60 Hz

- Range of Max. discharge capacity: **40/43 - 135/135 L/min**
- Range of Max. discharge head: **5.6/8.2 - 14.3/20.3 m**

55



MD-55R

7

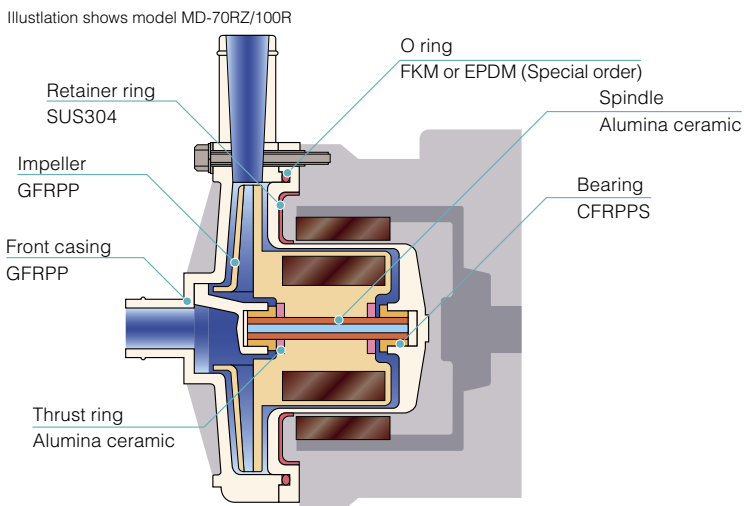
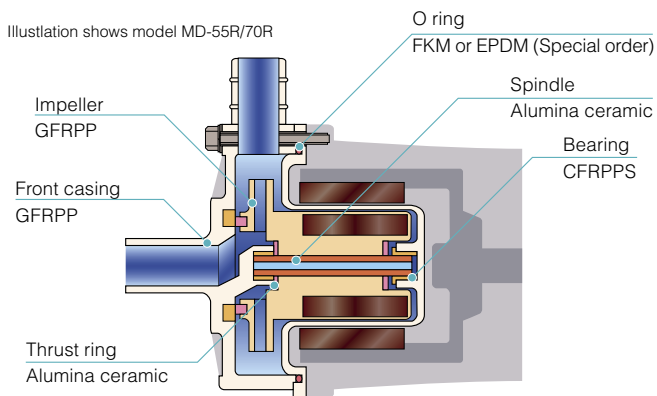
Specifications (50/60Hz)

| Model | Hose connection | | Thread connection | | Diameter of flange | Max. Capacity (L/min) | Max. Head (m) | S.G. | Output (W) | Input (W) | Power source (Note2) | | Mass (kg) |
|-----------|-----------------|-------------|-------------------|--------------------|--------------------|-----------------------|---------------|------|------------|-----------|---------------------------|-------------|-----------|
| | R · RZ | | R · M · RZ · M | | | | | | | | Single phase | Three phase | |
| | Inlet (mm) | Outlet (mm) | Inlet/Outlet | Union (mm) (Note1) | | | | | | | | | |
| MD-55R | 26 | 26 | G1 | 20 | - | 60 / 70 | 5.6 / 8.2 | 1.2 | 90 / 90 | 130 / 170 | 100V/200V/ 220V - 240V | - | 5.4 |
| MD-55R-5 | | | | | - | 70 / - | 8.2 / - | | 90 / - | 170 / - | | | |
| MD-70R | 26 | 26 | G1 | 20 | 20A | 86 / 97 | 6.7 / 9.7 | 1.0 | 150 / 180 | 235 / 365 | 220V/380V/ 400V/440V | 6.0 | |
| MD-70RZ | 20 | 20 | G3/4 | 16 | - | 40 / 43 | 14.3 / 20.3 | | 180 / 216 | 275 / 395 | | | |
| MD-100R | 26 | 26 | G1 | 20 | 25A | 120 / 135 | 8.6 / 11.9 | 1.2 | 260 / 265 | 245 / 365 | | | 8.5 |
| MD-100R-5 | | | | | | 135 / - | 11.7 / - | 1.1 | 260 / - | 365 / - | | | |

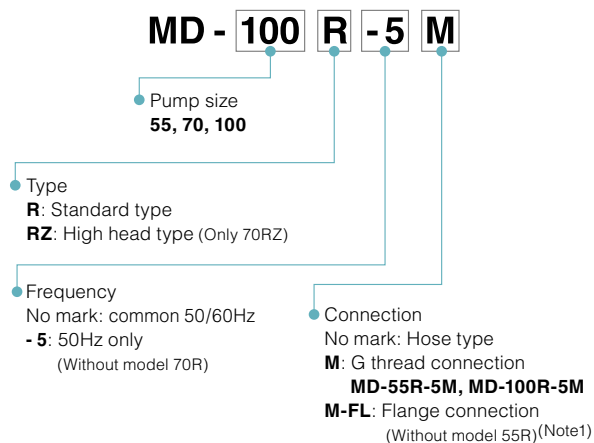
- Temperature range: 0 - 80°C (Contact us for applications below zero.) • Limit of viscosity: 30 mPa·s (at 1 S.G.) • Ambient temperature: 0 - 40°C
- Motor type: Capacitor-run induction motor

Note 1: The union field shows the nominal diameter of the applicable VP vinyl chloride hose. Heat resistance of the standard union is 0 - 55°C and that of the heat resistant union is 0 - 80°C.
 Note 2: Single phase of 200V model is special order. Please contact us for details.

Construction and materials



Pump identification



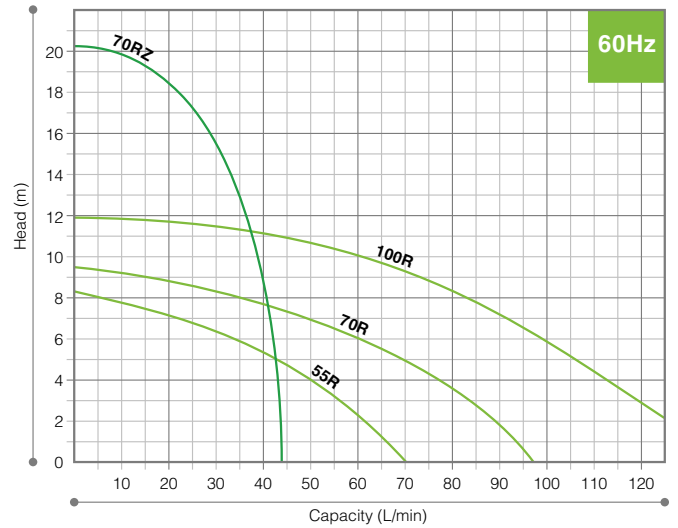
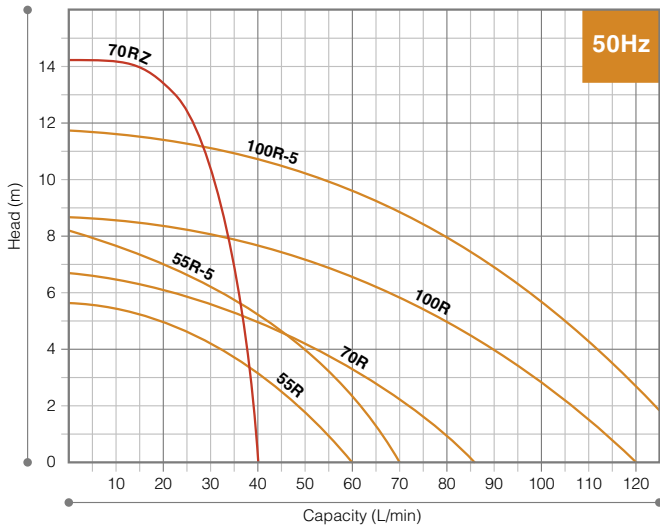
- Specify the pump model and power specification at an inquiry phase.
- Note1: For the MD-100 of 50Hz flange connection type, the model code is different from others. **MD-100RM-5-FL**

0 100

MD-70R

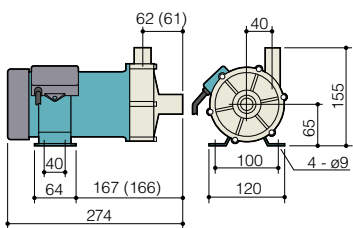
MD-100R

Performance curves

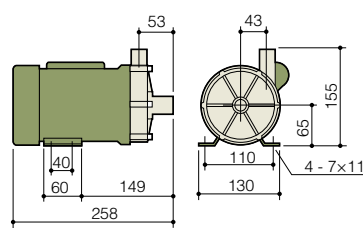


Dimensions (mm)

MD-55R-55R-5
Illustration shows MD-55R

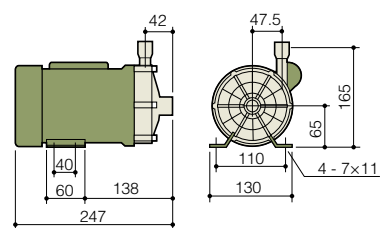


MD-70R

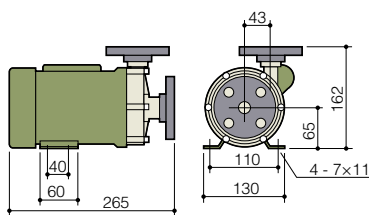


MD-70RZ

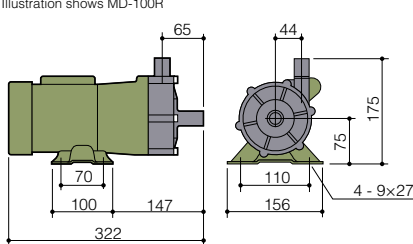
(): Thread connection type



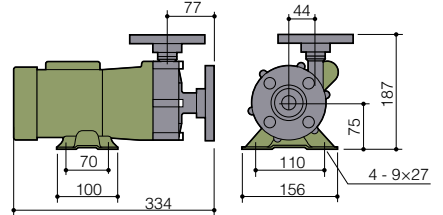
MD-70RM-FL



MD-100R-100R-5
Illustration shows MD-100R



MD-100RM-FL-100RM-5-FL



Special accessories

• Union joint

Special-purpose union joints are available to cope with three types (13mm, 16mm and 20mm dia.) of piping. Tight sealing O-rings are used to prevent thread damage caused by over tightening.



Specifications

| Model | 13A | H13A | 16A | H16A | 20A | H20A |
|--------------------|-------------|----------|----------|----------|----------|----------|
| Material | PVC | HT-PVC | PVC | HT-PVC | PVC | HT-PVC |
| Range of temp. | 0 - 55°C | 0 - 80°C | 0 - 55°C | 0 - 80°C | 0 - 55°C | 0 - 80°C |
| Material of O ring | FKM or EPDM | | | | | |

• Self-priming chamber

Once fill up liquid, repriming is not required. It is very easy to use MD pump with self-priming chamber.



Specifications

| Model | SC-4V | SC-4E | SC-7V | SC-7E |
|--------------------|----------------------|-------|---------|-------|
| Material of O ring | FKM | EPDM | FKM | EPDM |
| Connection | G3/4 | | G1 | |
| Suction limit | 0.8 m | | 1.2 m | |
| Range of tank | 0.8 L | | 1.3 L | |
| Applicable pump | MD-30RM-N, MD-40RM-N | | MD-70RM | |

Note: Self-priming height depends on liquid temperature and characteristics.

Compact & Lightweight

The canned motor pump offers a solution for built-in application

Direct drive pumps RD series

- Lightweight & sealless structure
- Plastic canned motor pump
- DC 24 V brushless motor
- Employ built-in type driver for the motor
- The variable flow and pressure control by DC 1 to 5 V signal
- Corresponds to high temperature range Max. 80°C
- The connection of three types can be chosen, thread, hose and quick fastener.



Specification

RD-05, RD-05H, RD-20, RD-30

| Model | Connection (IN x OUT) mm | Max. capacity L/min | Max. head m | Motor | | | | Rated | Mass kg |
|--------|-----------------------------|------------------------|----------------|-------------|------------------------|---------------------------------------|----------------------|------------|------------|
| | | | | Output W | Power consumption W | Revolution speed min ⁻¹ | Power voltage VDC | | |
| RD-05 | 14 x 8 | 4.7 | 3.6 | 4.4 | 9.6 | 3500 | 24 | continuous | 0.4 |
| RD-05H | | 7.9 | 11.0 | 18 | 39 | 6000 | | continuous | 0.5 |
| RD-20 | 18 x 18 | 19.5 | 9.3 | 28 | 60 | 3200 | | continuous | 1.3 |
| RD-30 | | 23.5 | 11.5 | 45 | 77 | 3500 | | continuous | |

- The above specifications show average values (24VDC) at our shipping inspection. The allowable deviation to each product is ±10% of the values. The values change with power voltage fluctuation.

RD-12, RD-12Z (Power source 24 VDC Input signal 5.0 VDC)

| Model | Connection (IN x OUT) | | | Max. capacity L/min | Max. head m | Power consumption W | Rated voltage VDC | Operating condition | Ambient temperature °C | Liquid temperature range °C | Mass kg |
|--------|-----------------------|-----------------|---------|------------------------|----------------|------------------------|----------------------|---------------------|---------------------------|--------------------------------|------------|
| | Quick fastener | Thread | Hose mm | | | | | | | | |
| RD-12 | P16 x P14 | NPT3/8 x NPT3/8 | 18 x 18 | 10 | 6 | 24 | 24 | continuous | 0 - 50 | 0 - 75 | 0.4 |
| RD-12Z | P16 x P10 | NPT3/8 x NPT1/4 | 18 x 10 | 3 | 9 | 28.8 | 24 | continuous | 0 - 50 | 0 - 60 | |

- The above specifications show average values (24VDC) at our shipping inspection. The allowable deviation to each product is ±10% of the values. The values change with power voltage fluctuation.

RD-40, RD-40X

| Model | Connection (IN x OUT) | Max. capacity L/min | Max. head m | Max. SG | Motor | | Mass kg |
|--------|---|------------------------|----------------|---------|-------------|---------------------|------------|
| | | | | | Output W | Power source VDC | |
| RD-40 | ∅26 mm x ∅19 mm, R1 x R1/2, NPT1 x NPT1/2 | 25 | 15 | 1.0 | 85 | 24 | 1.5 |
| RD-40X | ∅26 mm x ∅26 mm, R1 x R3/4, NPT1 x NPT3/4 | 70 | 8 | | 72 | | |

- The data is collected from operation with clean water at room temperature.
- The maximum capacity is obtained based on the presumption that delivery head is at 0 m. The maximum head is obtained based on the presumption that discharge capacity is at 0 L/min.
- The maximum viscosity is 1 mPa·s when the maximum specific gravity is 1.0.
- Operating condition Ambient temperature: 0 - 40°C, Liquid temperature: 0 - 80°C, Ambient humidity: 35 - 90%RH

www.iwakipumps.jp

IWAKI CO.,LTD. 6-6 Kanda-Sudacho 2-chome Chiyoda-ku Tokyo 101-8558 Japan TEL : (81)3 3254 2935 FAX : 3 3252 8892

EUROPE / U.S.A.

| | | |
|-------------------------------------|------------------------|--------------------|
| European office : IWAKI Europe GmbH | TEL: (49)2154 9254 0 | FAX: 2154 9254 48 |
| Austria : IWAKI (Austria) GmbH | TEL: (41)26 674 93 00 | FAX: 26 674 93 02 |
| Belgium : IWAKI Belgium N.V. | TEL: (32)13 67 02 00 | FAX: 13 67 20 30 |
| Denmark : IWAKI Nordic A/S | TEL: (45)48 24 2345 | FAX: 48 24 2346 |
| Finland : IWAKI Suomi Oy | TEL: (358)9 27458 10 | FAX: 9 27427 15 |
| France : IWAKI France S.A. | TEL: (33)1 69 63 33 70 | FAX: 1 64 49 92 73 |
| Germany : IWAKI Europe GmbH | TEL: (49)2154 9254 50 | FAX: 2154 9254 55 |
| Holland : IWAKI Holland B.V. | TEL: (31)547 293 160 | FAX: 547 292 332 |
| Italy : IWAKI Italia S.R.L. | TEL: (39)02 990 3931 | FAX: 02 990 42888 |
| Norway : IWAKI Norge AS | TEL: (47)66 81 16 60 | FAX: 66 81 16 61 |
| Spain : IWAKI Iberica Pumps, S.A. | TEL: (34)943 630030 | FAX: 943 628799 |
| Sweden : IWAKI Sverige AB | TEL: (46)8 511 72900 | FAX: 8 511 72922 |
| Switzerland : IWAKI (Schweiz) AG | TEL: (41)26 674 93 00 | FAX: 26 674 93 02 |
| U.K. : IWAKI Pumps (UK) Ltd. | TEL: (44)1743 231363 | FAX: 1743 366507 |
| U.S.A. : IWAKI America Inc. | TEL: (1)508 429 1440 | FAX: 508 429 1386 |

ASIA / OCEANIA

| | | |
|---|-----------------------|-------------------|
| Australia : IWAKI Pumps Australia Pty Ltd. | TEL: (61)2 9899 2411 | FAX: 2 9899 2421 |
| China | | |
| Hong Kong : IWAKI Pumps Co., Ltd. | TEL: (852)2607 1168 | FAX: 2607 1000 |
| Shanghai : IWAKI Pumps (Shanghai) Co., Ltd. | TEL: (86)21 6272 7502 | FAX: 21 6272 6929 |
| Guangzhou : GFTZ IWAKI Engineering & Trading Co., Ltd. | TEL: (86)20 8435 0603 | FAX: 20 8435 9181 |
| Beijing : GFTZ IWAKI Engineering & Trading Co., Ltd. (Beijing office) | TEL: (86)10 6442 7713 | FAX: 10 6442 7712 |
| Korea : IWAKI Korea Co., Ltd. | TEL: (82)2 2630 4800 | FAX: 2 2630 4801 |
| Malaysia : IWAKI M Sdn. Bhd. | TEL: (60)3 7803 8807 | FAX: 3 7803 4800 |
| Singapore : IWAKI Singapore Pte Ltd. | TEL: (65)6316 2028 | FAX: 6316 3221 |
| Indonesia : IWAKI Singapore (Indonesia Branch) | TEL: (62)21 6906606 | FAX: 21 6906612 |
| Taiwan : IWAKI Pumps Taiwan Co., Ltd. | TEL: (86)2 8227 6900 | FAX: 2 8227 6818 |
| Thailand : IWAKI (Thailand) Co., Ltd. | TEL: (66)2 322 2471 | FAX: 2 322 2477 |
| Vietnam : IWAKI Pumps Vietnam Co., Ltd. | TEL: (84)613 933456 | FAX: 613 933399 |



Caution for safety use: Before use of pump, read instruction manual carefully to use the product correctly. Actual pumps may differ from the photos. Specifications and dimensions are subject to change without prior notice. For further details please contact us.

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