



IWAKI
MAGNETIC
DRIVE
PUMPS

MD

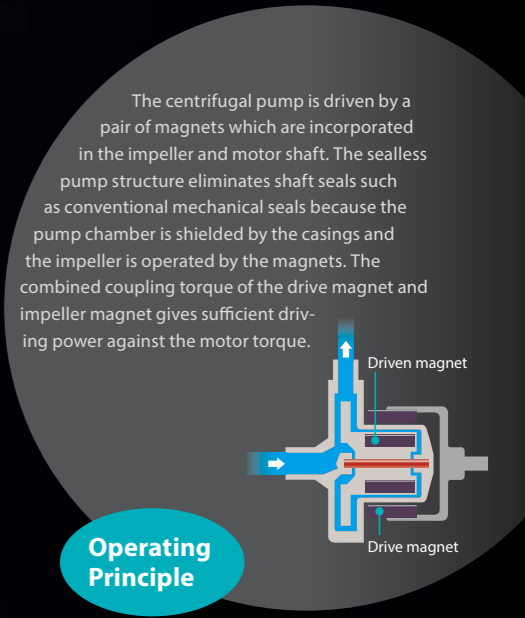
Main material
GFRPP



Solutions for chemical handling 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.

High corrosion-resistance

GFRPP(Glass 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-6 MD-10

MD-6•10 GFRPP

- Max Discharge capacity **5.5 - 11** l/min
- Max Discharge head **1.0 - 2.1** m



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

MD-15•20•30•40 GFRPP

- Max Discharge capacity **10 - 75** l/min
- Max Discharge head **1.8 - 11.5** m



MD-40R



MD-55R



MD-70R

MD-55•70•100 GFRPP

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



MD-100R

Wide variation Easy maintenance

The MD series has GFRPP wet ends. Hose connections and threaded connections are available. A large selection of models offer a wide flow range of 5.5-135L/min.



Outline of the series (50Hz)

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	8,0							1,0					1,2
	MD-6Z High head type	5,5							2,1					1,1
	MD-10 Standard type	11							1,5					1,1
	MD-15R Standard type	16							2,4					1,3
	MD-20R Standard type	27							3,1					1,1
	MD-20RX Large capacity type	46							1,8					1,3
	MD-20RZ High head type	10							4,6					1,1
	MD-30R Standard type	32							3,8					1,3
	MD-30RX Large capacity type	62							2,9					1,1
	MD-30RZ High head type	15							8,0					1,0
	MD-40R Standard type	45							4,6					1,1
	MD-40RX Large capacity type	75							3,3					1,1
	MD-40RZ High head type	22							10					1,0
	MD-40RZ-5	11							11,5					1,0
	MD-55R Standard type	60							5,6					1,2
	MD-55R-5	70							8,2					1,2
	MD-70R Standard type	86							6,7					1,0
	MD-70RZ High head type	40							14,3					1,0
	MD-100R Standard type	120							8,6					1,2
	MD-100R-5	135							11,7					1,1

Construction



MD-6·10 GFRPP

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



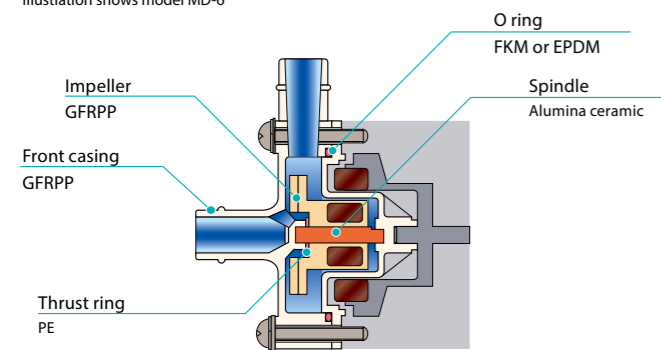
Specifications (50Hz)

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	1,0	1,2	3	22	220 - 240V Single phase	0,9
MD-6Z			5,5	2,1	1,1	3	24		
MD-10			11	1,5	1,1	6	35		

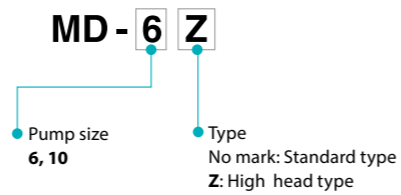
• Temperature range: 0 - 80°C (Contact us for applications below zero.) • Limit of viscosity: 30 mPa·s (at 1 S.G.) • Ambient temperature: 0 - 40°C
 • Motor type: Shaded pole motor • MD-6, 6Z and 10 do not have thread connection type.

Construction and materials

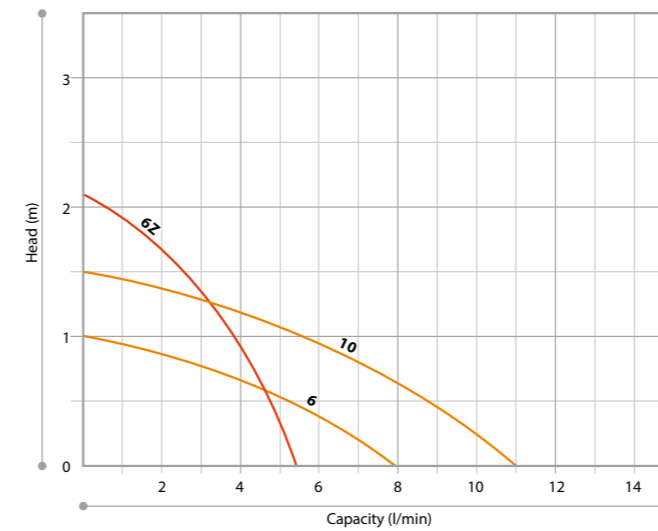
Illustration shows model MD-6



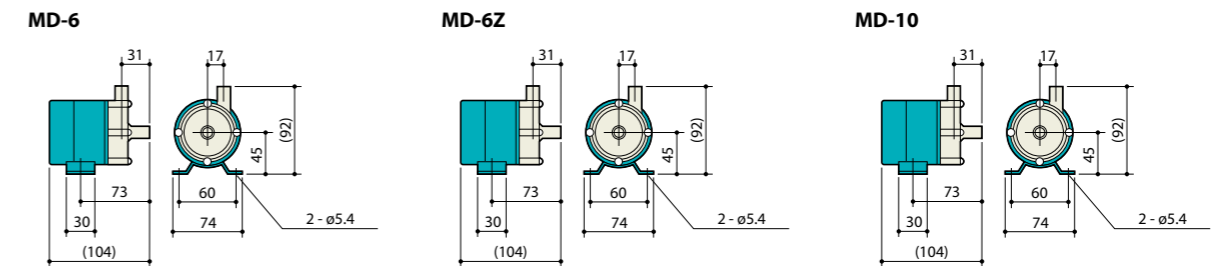
Pump identification



Performance curves (50Hz)



Dimensions (mm)



MD-15·20·30·40 GFRPP

- Range of Max. discharge capacity: **10 - 75 L/min**
- Range of Max. discharge head: **1.8 - 11.5 m**



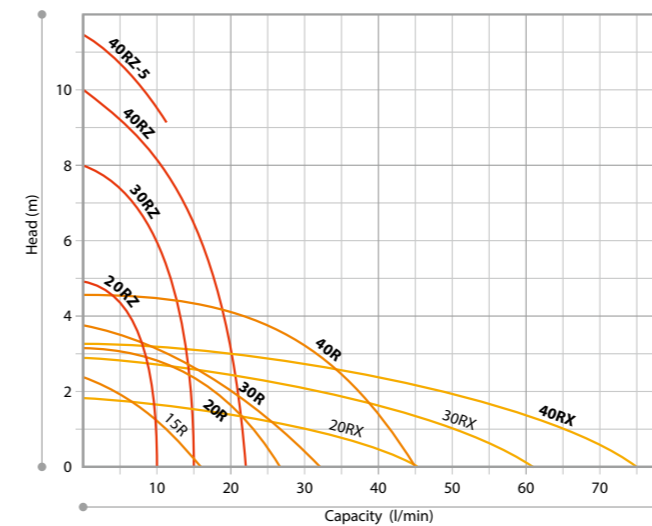
Specifications (50Hz)

Model	Hose connection		Threaded 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) ^(Note)							
MD-15R(M)	14	14	G3/4	13	16	2,4	1,3	10	26	220V - 240V 1-phasisig	1,6
MD-20R(M)	18	17	G3/4	16	27	3,1	1,1	20	40		2,0
MD-20RX(M)	26	26	G1	20	46	1,8	1,3				
MD-20RZ(M)	17,5	17	G3/4	13	10	4,9	1,1				
MD-30R(M)	20	20	G3/4	16	32	3,8	1,3	60	45	220V - 240V 1-phasisig	3,5
MD-30RX(M)	26	26	G1	20	62	2,9	1,1	70			
MD-30RZ(M)	17,5	17	G3/4	13	15	8,0	1,0	80			
MD-40R(M)	20	20	G3/4	16	45	4,6	1,1	90	65		220V - 240V 1-phasisig
MD-40RX(M)	26	26	G1	20	75	3,3		85			
MD-40RZ(M)					22	10		140			
MD-40RZ-5(M)	20	20	G3/4	16	11	11,5	1,0	65	140		

• 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

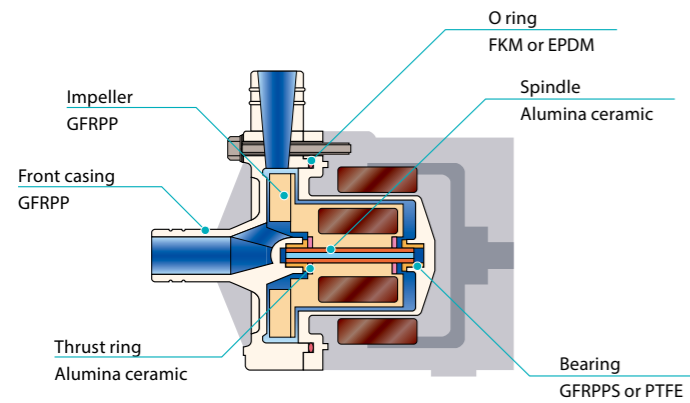
Note 1: The union size on above table shows the nominal diameter of the applicable PVC pipe. Heat resistance of the standard union is 0 - 55°C.

Performance curves (50Hz)

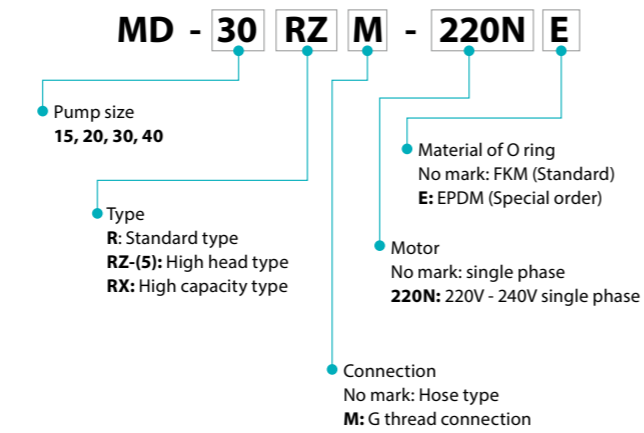


Construction and materials

Abbildung zeigt das Modell MD-30R



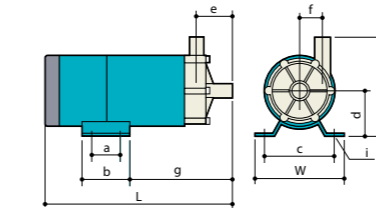
Pump identification



Dimensions (mm)

MD-15R(M)-20R(M)-30R(M)-40R(M)

Illustration shows MD-30R

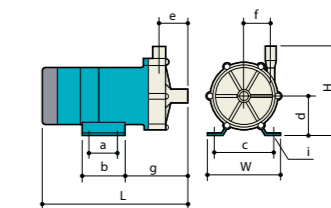


Model	W	H	L	a	b	c	d	e	f	g	i
MD-15R(M)	95	109 (114)	180 (179)	-	50	68	55	39	22	92	2 - ø5.6
MD-20R(M)	106	105 (107)	209 (203)	44	60	90	45	39 (33)	29	94 (88)	4 - 6x10
MD-30R(M)	120	130	248	40	64	100	60	48	31	137	4 - ø9
MD-40R(M)			250								

Note1: Dimension of the () inside are thread connection type.

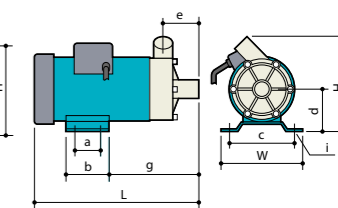
MD-20RZ(M)-30RZ(M)-40RZ(M)

Illustration shows MD-20RZ



MD-20RX(M)-30RX(M)-40RX(M)

Illustration shows MD-40RX



Model	W	H	L	a	b	c	d	e	f	g	i
MD-20RZ(M)	106	125	211	44	60	90	55	40	39	98	4 - 6x10
MD-30RZ(M)			230							120	
MD-40RZ(M)	120	150	241	40	64	100	60	39	45	128	4 - ø9
MD-40RZ-5(M)											
MD-20RX(M)	106	119 (122)	220	44	60	90	45	47	-	105	4 - 6x10
MD-30RX(M)	120	137 (140)	254	40	64	100	60	50	-	143	4 - ø9
MD-40RX(M)		137 (141)	256								

Note1: Dimension of the () inside are thread connection type.
 Note2: RZ type (Hose connection) and RZM type (Thread connection type) are the same dimensions.

MD-55·70·100 GFRPP

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



Specifications (50Hz)

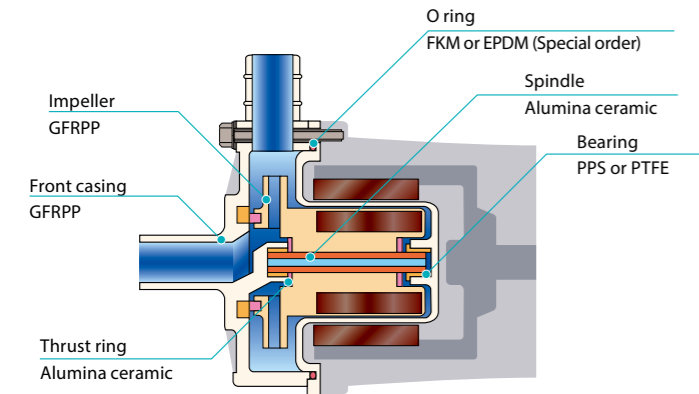
Model	Hose connection		Threaded connection		Max. Capacity (l/min)	Max. Head (m)	S.G.	Output (W)	Input (W)	Power source		Mass (kg)			
	Inlet (mm)	Outlet (mm)	Inlet/Outlet	Union (mm) ^(Note)						Single phase	Three phase				
MD-55R(M)	26	26	G1	20	60	5,6	1,2	90	130	220V - 240V	-	5,4			
MD-55R-5(M)					70	8,2		90	170						
MD-70R(M)	26	26	G1	20	86	6,7	1,0	150	235				400V/440V	6,0	
MD-70RZ(M)	20	20	G3/4	16	40	14,3		180	275						
MD-100R(M)	26	26	G1	20	120	8,6	1,2	260	245						8,5
MD-100R-5(M)					135	11,7		1,1	260						

• 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

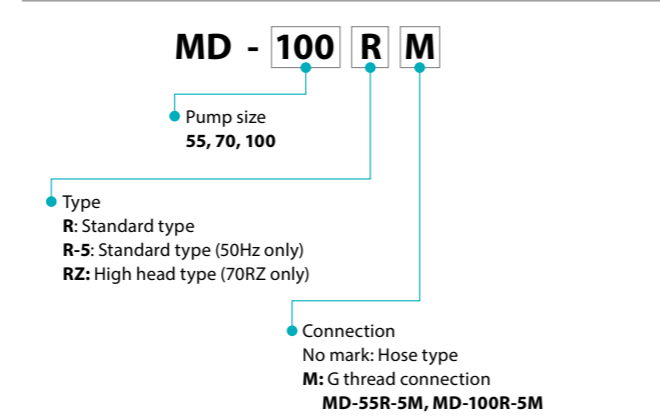
Note 1: The union size on above table shows the nominal diameter of the applicable PVC pipe.
 Heat resistance of the standard union is 0 - 55°C and that of the heat resistant union is 0 - 80°C.

Construction and materials

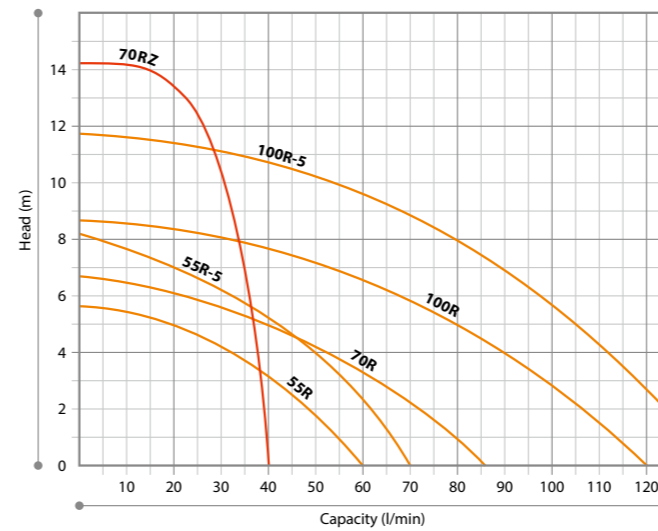
Illustration shows model MD-100R



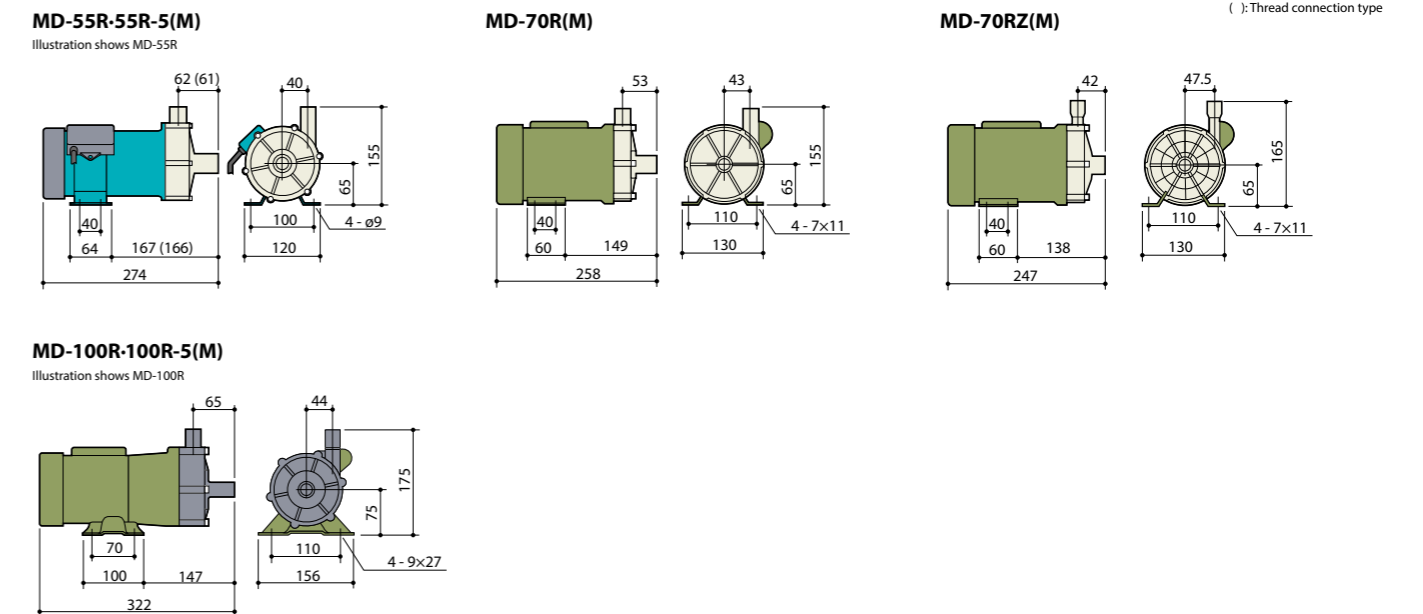
Pump identification



Performance curves (50Hz)



Dimensions (mm)



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.



• 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	13A	16A	20A
Material	PVC	PVC	PVC
Range of temp.	0 - 55°C	0 - 55°C	0 - 55°C
Material of O ring	FKM or EPDM		

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, MD-40RM		MD-70RM	

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

MD-55R-(5)(M), 70R(Z)(M), 100R-(5)(M)

Available with IEC frame motors



This type of unit allows the pumps to be supplied with numerous motor options.

MD-6Z-D2 (DC 24 V)

Capable of flow adjustment by changing power supply voltage (and allows the user to easily comply with international standards such as CE, UL and CSA.)

Max. discharge capacity: 6 l/min.

Max. discharge head: 2.7 m

Temperature range: 0 to 50°C

Supplied power: DC8V to 24V



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⚠ 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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