

A Compact Centrifugal Pump with Canned Motor Further Covers a Higher Flow Rate



Our RD series design features small canned motor centrifugal pumps powered by brushless DC motors. They are designed to be cool, quiet, compact and lightweight. A variety of features, including a seal-less design to prevent leakage, enables the pumps to meet a full spectrum of user needs, with emphasis on ease of installation, operation and maintenance. The high head type and the high flow type are new additions to the range. Choose the most suitable model from a wide selection.



Compact and Lightweight with a Seal-Less Structure

The pumps with a canned motor offer compactness and light weight. Compared with conventional magnetic drive pumps, they require minimal space for installation. Select the best connection for your plumbing system from tube, R pipe and NPT pipe. Seal-less structure eliminates wear leakage and other problems involved with seal replacement.



Long Life Design

Use of a DC brushless motor eliminates concerns over brush abrasion, ensuring a service life comparable to an AC motor.



Readily Compliant with Global Safety Standards

The RD series power voltage is classified as safety voltage (50V or less), which allow the user to easily comply with global safety standards such as UL, CSA and CE.



DC Power System

The DC power system overcomes installation limits for voltage and frequency of each area.



Flow Rate Adjustment

Flow rate can be adjusted by means of an external signal of 1-5VDC.



Built-in Drive Circuit

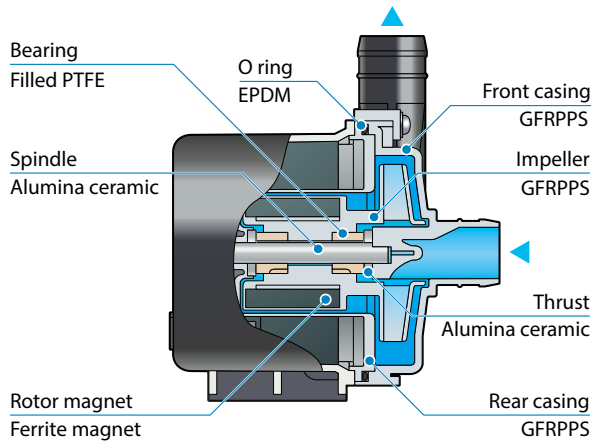
A drive circuit is fitted as standard inside the pump. Connect power to the pump and provide an external signal to start operation.



High Temperature Resistance

The pump can handle hot liquids up to 80°C.

Wet End Materials



Pump Identification

RD - 40 E 24 - H R1 V

1 2 3 4 5 6 7 8

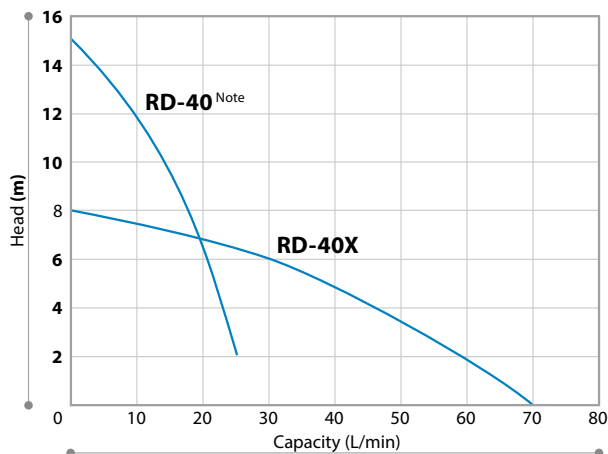
- 1 Pump series **NRD Series**
- 2 Pump size **40, 40X**
- 3 Material of Bearing
No code: Filled PTFE
- 4 Material of O ring
E: EPDM
- 5 Power voltage **24: 24VDC**
- 6 Liquid temperature
H: High
(Liquid temperature range 0 to 80°C)
- 7 Pump connection port
No code: Tube
R1: R Thread
N1: NPT Thread
- 8 Input signal
V: DC1-5V

Specifications

Model	Connection	Connection sizes (Outer diameter Ø)		Max. Capacity L/min	Max. Head m	Limit of specific gravity	Motor		Mass kg
		IN mm	OUT mm				Power voltage V	Output W	
RD-40	Tube	27	21	25	15	1.0	DC24	85	1.5
	R Thread	R1	R1/2						
	NPT Thread	NPT1	NPT1/2						
RD-40X	Tube	27	27	70	8	1.0	DC24	72	1.5
	R Thread	R1	R3/4						
	NPT Thread	NPT1	NPT3/4						

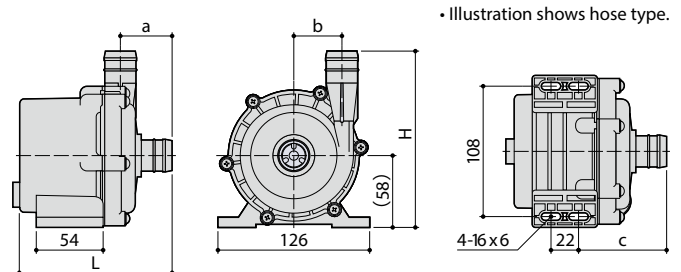
- The data is collected from operation with clean water at room temperature.
- The maximum capacity is obtained based on the presumption that delivery head is at 0 m. The maximum head is obtained based on the presumption that discharge capacity is at 0 L/min.
- The maximum viscosity is 1 mPa·s when the maximum specific gravity is 1.0.
- A 500mm option cable is available.
- Operating condition Ambient temperature: 0 - 40°C, Liquid temperature: 0 - 80°C, Ambient humidity: 35 - 90%RH

Performance Curves



- Do not exceed 25 L/min in operation, or cavitation may take place.

Dimensions in mm



Model	Connection	H	L	a	b	c
RD-40	Tube	(139)	(130)	(44)	37	(75)
	R Thread	(133)				
	NPT Thread	(133)				
RD-40X	Tube	(143)	(130)	(42)	40	(75)
	R Thread	(134)				
	NPT Thread	(134)				

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() Country codes

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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