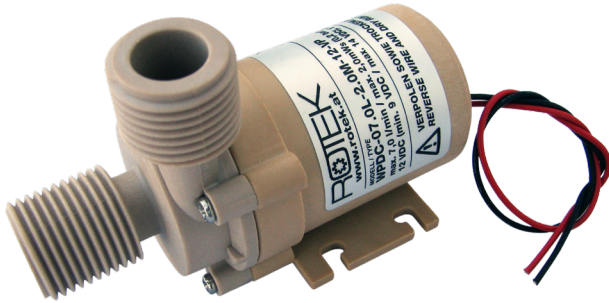


General Information

The mini centrifugal pump of the WPDC series is a food-safe, submersible pump with a brushless DC motor. It features an extremely low operating noise level and is specially designed for continuous operation in the medium.



Thanks to the all-plastic construction (without bronze, stainless steel, or aluminum), the pump offers high resistance and is suitable for a variety of media such as demineralized water and solvents. The materials used include polypropylene and Peek, while the seal is made of silicone. Due to these materials, the pump is also conditionally resistant to alkalis and acids.

Safety Instructions

- When using hazardous substances, the pump must be regularly inspected in accordance with the Occupational Safety Ordinance (BetrSichV).
- Appropriate safety measures must be taken, especially when using explosive or highly flammable substances.

Installation Instructions

- The outlet of the pump can be rotated in 90° steps to flexibly adjust the position to different applications.
- Reversing the polarity of the power supply is not permitted, as this would damage the pump. A polarity protection device should be provided depending on the application.
- Dry running of the pump should be avoided; the minimum flow rate should always be at least 5% of the maximum flow rate.
- The operating voltage can be reduced to adjust flow and pressure to the specific application requirements.
- The pumped medium must not contain ferromagnetic particles, as these could accumulate between the rotor and stator. In such cases, a magnetic trap should be installed.
- The pump is not self-priming; a natural inflow must be ensured.

Technical Data

Model	WPDC-	
	7.0L-2.0M-12-VP	10.5L-5.0M-24-VP
Rotek Part Number	PUM374	PUM375
EAN (GTIN13)	9009970002503	9009970002527
Max. Flow rate ¹⁾	7,0 l/min	10,5 l/min
Min. Flow rate	5% of max. flow rate (Q _{MAX})	
Max. Head ¹⁾	2,0 mWs (~0,2 bar)	5,0 mWs (~0,5 bar)
Self priming height	0 mWs, not self-priming	
Inlet thread (bore)	G1/2" male thread (Ø: 12 mm)	
Outlet thread (bore)	G1/2" male thread (Ø: 12 mm)	
Direction of rotation	counterclockwise	
Allowed Medium Temperature	Free-standing (outside): ≤ +95°C Submersed in medium: ≤ +40°C	
Used materials ²⁾	Bearings: Peek, Seals: Silicone, other components: Polypropylene	
Operating Voltage	12 V _{DC} (8 - 14 V _{DC})	24 V _{DC} (18 - 26 V _{DC})
Current Consumption	<i>valid for nominal operating voltage (12 / 24 V_{DC})</i>	
at Q _{MAX}	550 mA	850 mA
at P _{MAX}	370 mA	490 mA
in idle (no load)	150 mA	200 mA
Connection cable	Stranded-wire, 2-pole (0.3mm ²), Length: 150mm	
Insulation resistance	≥ 10 MΩ (500 V)	
Surge resistance	500 V, 10 mA, 1s	
Dimensions	see dimensional drawing	
Weight	200 g	
Noise level	≤ 30 dB(A) @ 1m / ≤ 55 dB(A) @ 0,1m	
MTBF ³⁾	> 50.000h, suitable for continuous operation	

¹⁾ The specified values for head height and flow capacity are maximum values and represent the endpoints of the pump performance curve.

Value for maximum flow rate: Open outlet, no height difference, viscosity=1
Value for maximum head height: At a flow rate of Q_{MIN} (=5% of Q_{MAX})

²⁾ Only materials that come into contact with the medium are listed.

³⁾ To protect the electronics of the brushless DC motor, the lowest possible housing temperature should be maintained.

Disposal

At the end of its service life, the device must be handed over to an appropriate electronic waste disposal company (WEEE No.: DE 95178600).

