



Key Features

- Digital display
- Advanced features and updated software
- Memory for rotational speed
- Option to connect an external pump for extended depth capability
- Option to switch tubes: prevent cross-contamination between two sampling activities
- IP66 protection rating
- Compartment for built-in 12 Volt lithium-ion battery

Applications

- Environmental soil research
- Monitoring well installation
- Water quality research
- Monitoring water quality
- PFAS sampling
- Water sampling
- Ground water sampling

Our groundwater sampler line has been expanded with this new addition: the Peristaltic Pump ROYAL replaces the 12 VDC Advanced. It has undergone extensive improvements, with a new pump head and updated software. It's lightweight and built to withstand the toughest conditions.

Our battery-powered field pumps can pump up water, as well as air, from a depth of up to 9 metres. Their continuous low-flow pumping method makes the pumps perfectly suitable for sampling and purging monitoring wells.

The peristaltic pumps are controlled by a microprocessor which provides adjustable constant speed, overload protection and various external control functions. The integrated compartment for a 12 Volt lithium-ion battery makes it possible to use the pumps in the field without additional power requirements, and the carrying strap makes the pump easily portable.

By using the filter holder or 0.45-micron disposable filters for the removal of soil particles from water samples, in-line filtration for sampling of groundwater can be done. To prevent cross-contamination, simply exchange the tubes of the pump.

Flow Rate Comparisons

With its advanced pump head, the Peristaltic Pump ROYAL delivers flow rates that easily surpass those of competitors – up to 2000 ml per minute.

Note that the actual flow rate is always dependent on the tube used and ambient conditions.



Specification	
Housing	
Dimensions main housing (LxWxH)	350x325x155 mm (max.)
Weight (including lithium-ion battery)	7 kg (7 Ah: 7.86 kg 10 Ah: 8.5 kg)
Material standard main housing	HIPS
Main housing interior	Stainless steel
Pump housing	Anodized aluminium
Metal pump (rotor) parts	Stainless steel
Tubing (supplied separately)	
Material pump tube	Silicone
Rigidity pump tube	60±5° Shore-A
Wall thickness	2.0...2.2 mm
Diameter of tube (Øinside x Øoutside)	4x8 mm & 6x10 mm
Pump characteristics - Approximately	
Suction head (depending on ambient and tube conditions)	Tube Ø 4x8 mm: 8-9.5 m ** Tube Ø 6x10 mm: 6-9 m **
Minimum flow rate @ 10 rev./min.	ca. 50 ml/min.
Maximum flow rate @ 400 rev./min. (depending on height/peripheral factors)	ca. 2000 ml/min
Electrical	
Lithium-ion battery (LiFe PO4)	12.8 VDC, 10 Ah/7 Ah
External power supply	12 VDC 3.34 A
Ambient/operational conditions	
Temperature	-10...+40°C
IP-class	Min. IP-66 (dust- and splash proof)
Relative air humidity	0...100%
Certification	
CE	CE-conform
Machinery directive	2006/42/EC
EMC directive	2014/30/EU
RoHS directive	2011/65/EU
WEEE directive	2012/19/EU

** Metres of Water Column

