

Peristaltic pumps

We extended our product line: Meet the peristaltic pump PRO!



The Peristaltic Solution for efficient water sampling and purging

We proudly present our latest innovation: the peristaltic pump PRO. Building on the success of the Advanced model, the PRO offers only the essential features for a lower price and simple usage.

Both Royal Eijkelpump peristaltic pumps are battery-powered field pumps that can pump up water as well as air. Due to their continuous low-flow pumping method, the pumps are perfectly suitable for sampling and purging monitoring wells. To prevent cross contamination, simply exchange the tubes of the pump.

The peristaltic pumps are controlled by a microprocessor which provides adjustable constant speed, overload protection and various external control functions. A built-in maintenance-free 12 Volt lithium-ion battery makes it possible to use the pumps in the field. By using the filter holder or 0.45 micron disposable filters for removal of soil particles from water samples, in-line filtration for sampling of groundwater can be done.

Use your peristaltic pump for:

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



Peristaltic Pump PRO



Peristaltic Pump Advanced

PRO vs Advanced

The Peristaltic Pump PRO and Advanced are both specifically produced for field use. They have lightweight and portable designs, complete with built-in maintenance-free batteries and highly splash-proof housings. With either pump you select, you can be assured of its ability to operate safely, efficiently, and flawlessly in the field

	PRO	Advanced
Features	  Less features for simple usage	    More features for advanced usage
Robustness	  Less robust to enhance portability	    More robust to ensure durability
Costs		 

Specifications

Item	Specifications Peristaltic pump Pro	Specifications Peristaltic pump Advanced
Housing		
Dimensions main housing (lxwxh)	350x325x155 mm (max.)	350x325x155 mm (max.)
Weight excl. lithium-ion battery	7 kg (approx.)	7 kg (approx.)
Lithium-ion battery (LiFe PO4)	10 Ah: 1.5 kg 7 Ah: 0.86 kg	10 Ah: 1.5 kg 7 Ah: 0.86 kg
Material standard main housing	HIPS	HIPS
Main housing interior	Stainless steel	Stainless steel
Pump housing	PPS (plastic)	Coated aluminium
Metal pump parts	Corrosion resistant materials	metals/plastic
Tubing (preferred)		
Material pump tube	Silicone	Silicone
Rigidity pump tube	60±5° Shore-A	50°...55° Shore-A
Wall thickness	2.4mm (3/32")	2.0...2.2 mm
Diameter pump tube (Øinside x Øoutside)	6.4 mm (1/4") x 11.1mm (7/16")	4x8 mm & 6x10 mm
Pump characteristics		
Suction head (depending on ambient and tube conditions)	Tube Ø 4x8 mm: 8...9.5 MWC* Tube Ø 6x10 mm: 6...9 mwc	Tube Ø 4x8 mm: 8...9.5 MWC* Tube Ø 6x10 mm: 6...9 mwc
Pressure head (depending on ambient conditions)	Tube Ø 4x8 mm: 2.5...3 bar Tube Ø 6x10 mm: 2.5...3 bar	Tube Ø 4x8 mm: 2.5...3 bar Tube Ø 6x10 mm: 2.5...3 bar
Minimum flow rate @ 10 rev./min.	ca. 50 ml/min.	ca. 50 ml/min.
Maximum flow rate@ 400 rev./min. (depending on height/peripheral factors)	ca. 2000 ml/min.	ca. 2000 ml/min.
Electrical		
Prescribed lithium-ion battery (LiFe PO4) 10 Ah/7 Ah	12.8 VDC	12.8 VDC
External power supply	12 VDC 3.34 A	12 VDC 3.34 A
Ambient-/operational conditions		
Temperature	-10...+40°C	-10...+40°C
IP-class	IP-66	Min. IP-66 (dust- and splash proof)
Relative air humidity	0...100%	0...100%
Certification		
CE	CE-conform	CE-conform
Machinery directive	2006/42/EC	2006/42/EC
EMC directive	2014/30/EU	2014/30/EU
RoHS directive	2011/65/EU	2011/65/EU
WEEE directive	2012/19/EU	2012/19/EU

* Metres of Water Column



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