ROYAL Eijkelkamp
Meet the difference

HOSKIN SCIENTIFIC

# 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 Eijkelkamp 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<br>7 Ah: 0.86 kg | 10 Ah: 1.5 kg<br>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 (∅inside x ∅outside) | 6.4 mm (1/4”) x 11.1mm (7/16”) | 4x8 mm & 6x10 mm |
| Pump characteristics | Approximately: | |
| Suction head (depending on ambient and tube conditions) | Tube ∅ 4x8 mm: 8...9.5 MWC*<br>Tube ∅ 6x10 mm: 6...9 mwc | Tube ∅ 4x8 mm: 8...9.5 MWC*<br>Tube ∅ 6x10 mm: 6...9 mwc |
| Pressure head (depending on ambient conditions) | Tube ∅ 4x8 mm: 2.5...3 bar<br>Tube ∅ 6x10 mm: 2.5...3 bar | Tube ∅ 4x8 mm: 2.5...3 bar<br>Tube ∅ 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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