

# FlexiPump®


Dispensing pumps for liquid dispensing

Speed and precision in every drop




interscience

**FlexiPump®** is a range of peristaltic pumps for liquid dispensing. It adapts to all your needs, from media preparation to sample preparation. **By saving time, you can efficiently dispense all types of liquids**, even syrupy ones.

 **x 40**  
in 1 min<sup>(1)</sup>

 **x 29**  
in 1 min<sup>(1)</sup>

 **x 8**  
in 1 min<sup>(1)</sup>



## Distribution accuracy and reproducibility

- **Accuracy** up to 0.5 %
- **Reproducible results** over long dosing distributions
- In compliance with ISO 6887 and ISO 7218 standards

**PATENTED**

## Integrated scale<sup>(2)</sup>

- **Integrated weighing platform** connected to the unit
- **Autocalibration with customizable frequency** during your dispensing series

## Simplified distribution

- **Cross-contamination-free** liquid transfer
- **Compact** on the bench or under the PSM.
- Fully autoclavable dispensing set with bottle
- Anti-drip system

## Applications

- **Distribution:** Dilution tubes, bottles, jars, flasks, filter bags, sampling bags, ...
- **Pouring of Petri dishes**

**FlexiPump® Scale** is especially designed for:

- **Big-volume dispensing** for solid sample preparation
- Preparation of **sampling wipes** for PCR
- **Soil chemistry:** sample preparation for soil and sewage sludge analysis



Food



Veterinary



Pharmaceutical



Environmental



Public research



Cosmetics

(1) With **FlexiPump® Scale** in multi-dose mode with a delay of 0.1 s in optimal conditions.



**FlexiPump®**  
Essential  
functions



**FlexiPump® Pro**  
High-performance  
dispensing



**FlexiPump® scale**  
Integrated  
weighing platform

# Flexibility and adaptability

The pumps that fits all your dispensing needs



## 4 dispensing modes

Continuous  
Dose  
Multi-dose  
Dose on scale<sup>(2)</sup>



## Wide range of volumes

Dispense from 50  $\mu$ L to 99 L  
in all types of containers  
(plates, tubes, bottles,  
filter bags, sampling bags)



## Accelerated flow

With the Jumbo Pack,  
comprising 4 pump heads,  
**FlexiPump® Scale** offers precision  
flow rates of up to 5L/min  
for your sample processing.



## 3 dispensing options

Handy gun - ref. 561 001  
Adjustable dispensing arm - ref. 561 002  
Foot pedal - ref. 507 008



## Wide range of tubings

From  $\varnothing$  3.2 to 8 mm to adapt flow/accuracy  
to all your applications. Please see tubings guide



## Traceability

All distribution parameters  
are traceable.

Printer<sup>(3)</sup> - ref. 410 150

(2) Only available on **FlexiPump® Scale** (3) Not available on **FlexiPump®**

# Technical specifications

|  | FlexiPump®   | FlexiPump® Pro  | FlexiPump® Scale   |
|--|--|---|--|
| Reference  | 561 000  | 562 000   | 563 000  |
| <b>OVERVIEW</b>  |  |   |  |
| All stainless steel 304 L                              | ✓  | ✓   | ✓  |
| Handy gun compatible                                   | ✓  | ✓   | ✓  |
| Traceability (printer, PC, USB stick)                  | -  | ✓   | ✓  |
| Double-head pump for high accuracy and high flow       | -  | ✓   | ✓  |
| Integrated weighing platform                           | -  | -   | ✓  |
| Autocalibration with customizable frequency (PATENTED) | -  | -   | ✓  |
| Jumbo pack compatible                                  | -  | -   | ✓  |
| <b>SPECIFICATIONS</b>                                  |  |   |  |
| Volume dispensed in dose and multi-dose mode           | 50 µL to 99 L  |   |  |
| Volume dispensed in dose on scale mode                 | -  | 1 mL to 6.5 L   |  |
| Weighing range   | -  | 0.1 to 6500 g   |  |
| Weighing resolution up to 200 g                        | -  | 0.01 g  |  |
| Weighing accuracy                                      | -  | 0 to 100 g: ± 0,05 g / 100 to 6500 g: 0.1 %   |  |
| Typical dispensing accuracy with inner Ø 3.2 mm tubing | 9 mL: ± 1.8% - 18 mL: ± 1% - 225 mL: ± 0.5%                        | 9 mL: ± 0.9% - 18 mL: ± 0.5% - 225 mL: ± 0.4%   |  |
| Accuracy range in dose on scale mode                   | -  | 0 to 1% in accurate mode<br>0 to 2% in fast and normal modes (measured for each dispensing) |  |
| Dispensing modes                                       | Continuous - Dose - Multi-dose                                     |   | Continuous - Dose with/without autocalibration - Multi-dose with/without autocalibration - Dose on scale               |
| Number of customizable programs                        | 32   |   |  |
| Multi-dose pause                                       | Adjustable from 0.1 to 99.9 s                                      |   |  |
| Watson Marlow™ pump                                    | Single pump head   | Low pulsation double pump head  |  |
| Flow rates   | 1.5 mL/min to 1.25 L/min   | 3 mL/min to 2.5 L/min   | 6 mL/min to 5 L/min <sup>(4)</sup>   |
| Pump head rotating speed                               | 10 to 550 rpm  |   |  |
| Tubing material  | Tygon™ (for pump head) and silicon                                 |   |  |
| Voltage - Frequencies                                  | 100-240 V~ 50-60 Hz  |   |  |
| Warranty   | 1 year   |   |  |
| Spare parts availability                               | 10 years   |   |  |
| In compliance with                                     | ISO 7218, ISO 6887 and FDA BAM (Bacteriological Analytical Manual) |   |  |
| <b>TRACEABILITY</b>                                    |  |   |  |
| Traceability   | -  | Operator name, dispensing mode accuracy, last calibration, date, time, speed, Ø tubing      | Operator name, target weight, measured weight, dispensing mode accuracy, last calibration, date, time, speed, Ø tubing |
| Connections  | Jack 3.5 mm  | 2 x USB type A, USB type B, 3.5 mm jack   | 2 x USB type A, USB type B, 3.5 mm jack, weighing platform socket  |
| Data export  | -  | Compatible CSV Excel™, Open Office Calc™, LIMS  |  |
| <b>WEIGHT AND DIMENSIONS</b>                           |  |   |  |
| Dimensions (w x d x h)                                 | 16.1 x 27.3 x 20.8 cm  | 16.1 x 33.2 x 20.8 cm   | 16.1 x 33.2 x 20.8 cm<br>+ Weighing platform: Ø 17 cm x 5.4 cm   |
| Net weight   | 5.40 kg  | 5.55 kg   | 7.50 kg  |
| Box dimensions (w x d x h)                             | 50 x 40 x 40 cm  |   |  |
| Gross weight   | 8.20 kg  | 8.45 kg   | 11.26 kg   |

Delivered with 1 or 2<sup>(3)</sup> Watson peristaltic pump heads Marlow™, 1 weighing platform, 1 x 3.2 mm dispensing set (nozzle + GL45 screw cap + filter + tubing + tube weight), 1 x 6.4 mm dispensing set<sup>(3)</sup>, 1 user manual, 1 power cord, 1 USB cable<sup>(3)</sup>, 1 free pack of blender bags, 1 certificate of conformity / warranty card.

(3) not available on FlexiPump® (4) with Jumbo pack

**Certified production**



Product made for INTERSCIENCE by Interlab, an ISO 9001 certified company.

Your local distributor

**interscience**

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