

HAND-OPERATED PRECISION MICROAPPLICATOR



Introduction

The BURKARD hand micro-applicator can be used anywhere. It is convenient, reliable, sturdy and portable and needs no battery or mains electricity. Our new improved version is a further example of Burkard Scientific's engineering and maintains our reputation for quality and precision.

There are many laboratory uses for micro-dispensing devices, however few manually operated instruments prove convenient, for one reason or another. The instrument has been developed to combine simplicity with speed and ease of operation.

The hand applicator has had an international appeal for more than 20 years typically in areas of topical application, micro-injection, micro-titration and precision dispensing. Widely employed in agricultural research laboratories, this attractive, free-standing instrument is invaluable for the application of pesticides. It provides easy selection and delivery of reproducible aliquots. The rigidly mounted, precision all glass syringe enables the operator to carefully apply microdroplets for a variety of individual experiments.

With the applicator's universal support the syringe needle may be angled downward for injection into cells, etc. More complex dispensing may require an alternative laboratory stand or a micrometer positioned platform for use under a microscope.

The applicator has indexing enclosed for protection, easier volume selection, and a base plate manufactured from inert stain-resistant plastic.

For heavy workloads and even greater versatility we recommend our PAX-100 electronic applicator with microprocessor controller.

Equipment Details

The applicators are constructed from stainless steel or anodised materials which withstand chemicals in the laboratory. The later design protects precision parts to maintain long term accuracy, and improves the droplet selection. The standard aliquots are 0.25, 0.5, 1, 2, 5ml when the all-glass 1ml syringe is used. However droplet sizes up to 50ml are possible with the optional 10cc syringe and adapter; all scale volumes are multiplied by 10.

Syringe mounting is quick and simple, and the volume selection is reliable with positive location of the index and drum when the selector datum coincides with any graduation on the scale. Free rotation of the drum is possible when the lever is depressed for rewind. The universal mount with single clamp positively secures the instrument in any desired position. Special mounting adapters will be provided to order if required.

Options

- 10cc all glass syringe and adaptor (for volumes up to 50µl)
- Alternative syringe needle/cannulae sizes

Other products in the range include the precision micrometer syringe unit and the versatile PAX-100 micro-dispensing system.

Specification

| | | |
|--|---|-------------|
| Max delivery volume (1ml syringe) | 600µl | |
| Hypodermic Luer fitting syringe needles | 3/10 x 25mm | 5/10 x 25mm |
| Overall unit length | 16.2cm | 6.5in |
| Depth | 12.5cm | 5.0in |
| Height | 8.7cm | 3.5in |
| Base dimensions | 10 x 15cm | 4 x 6in |
| Net weight | 1.2Kg | 2.64lbs |
| Ship weight | 2.2Kg | 5lbs |
| Standard equipment (*Please specify when ordering) | 1ml syringe, 1 box each *5/10 or 3/10 Luer syringe *needles or cannulae, *angled or straight | |

Ordering Information

| Product Code | Description |
|--------------|--|
| BS00279 | Hand Operated Micro-Applicator |
| BS01062 | 1cc all glass syringe |
| BS01061 | 10cc all glass syringe |
| BS02111 | Stainless steel cannulae angled 25gx25mm (pk/10) |
| BS02110 | Stainless steel cannulae angled 29gx25mm (pk/10) |
| BS02112 | Stainless steel cannulae angled mixed (25g&29g) (pk/10) |
| BS02108 | Stainless steel cannulae straight 25gx25mm (pk/10) |
| BS02107 | Stainless steel cannulae straight 29gx25mm (pk/10) |
| BS02109 | Stainless steel cannulae straight mixed(25g&29g) (pk/10) |
| BS01068 | Stainless steel needles angled 25gx25mm (pk/10) |
| BS01067 | Stainless steel needles angled 29gx25mm (pk/10) |
| BS01069 | Stainless steel needles angled mixed (25g&29g) (pk/10) |
| BS01065 | Stainless steel needles straight 25gx25mm (pk/10) |
| BS01064 | Stainless steel needles straight 29gx25mm (pk/10) |
| BS01066 | Stainless steel needles straight mixed (25g&29g) (pk/10) |

The company reserves the right to make changes to the specification without notice. Other products in the range include the PAX-100 electronic control microapplicator and the precision micrometer syringe unit. For full details contact Burkard Agronomics Instrument Sales section.

