



**Bioscience, Inc.**

Environmental Products and Services

ISO 9001:2008 Certified

## Ampulmatic®-10 Ampule Sealer With Purge Gas Injector and Liquid Filler Accessories



- Proven reliability and easy adjustment with filling (inert gases and/or liquids) and sealing capabilities have made the Bioscience, Inc.'s Ampulmatic-10 Ampule Filling and Sealing System the ideal choice for a wide variety of sealing applications.

### Base Unit

Speed up your ampule sealing with the easy to use, maintain and adjust **Ampulmatic®-10 Ampule System**. It speeds and automates the flame sealing of ampules at the lab bench scale. The base unit automatically indexes each ampule positioned on a carousel into a propane and oxygen flame and then spins the ampule creating a hemispherical seal on every ampule. The ampule dwell time (time in the flame) can be easily changed by the turn of a dial. The flame temperature is easily adjusted for a quick initial setup or for a quick change to a different ampule size/configuration. The base unit is designed for easy internal access for any maintenance that may be required.

### Plug-In Accessories

The **Purge Gas Injector** accessory automatically purges the headspace of each ampule with an inert gas before and/or after filling to minimize the oxygen concentration in the ampule head space and thus minimize sample deterioration over time and/or reduce flammability of ampule contents. In lab simulations starting with empty ampules the residual oxygen concentration after purging can be reduced to as low as 1%.

The **Liquid Filler** accessory fills each ampule with a precisely measured quantity of liquid ranging from 0.1 to 20 ml. The flexible design allows for a wide range of filling and sealing operations. The Liquid Filler operates in conjunction with the Purge Gas Injector Unit so that the carousel cannot rotate while the injector head(s) are down inside the ampules and liquids cannot be dispensed if an ampule is not in position.

## Features

- Plug-In Purge Gas Injector Accessory
- Plug-In Liquid Filler Accessory
- Fully Automatic Operation
- Dial to Control Dwell Time
- Seals Up To 900 Ampules Per Hour
- Uses Natural Gas, MAPP or Propane and Technical Grade Oxygen at 10 to 20 psi
- Carousel Racks Available for 1, 2, 5, 10, 20, and 50 ml Sizes. Custom Sizes Available.
- Easy Access for Changing Belt
- Supply Voltage: 100 to 240 VAC
- Made in the USA.

## Applications

- Analytical Standards Packaging
- Production & Quality Control
- Samples Packaging
- Pharmaceutical Products & Controls
- Chemical Production QC Sampling
- Battery Electrolyte Packaging
- Sera/Vaccines/Injectables Packaging
- Food Quality Control Sampling
- Beverage Quality Control Sampling
- Upstream Oil Research
- Bacterial Culture Preservation
- Cell Line Preservation

## Specifications

- Dimensions
  - Base Unit 8½"W x 12"H x 17"D (21.6 cm W X 30.5 cm H X 43.2 cm D)
  - Purge Gas Injector 6"W x 16"H x 8"D (15.2 cm W X 40.6 cm H X 20.3 cm D)
  - Liquid Filler 8"W x 16"H x 8"D (20.3 cm W X 40.6 cm H X 20.3 cm D)
- Materials of Construction (special materials for corrosive models available by request)
  - Outside Body Powder Coated Aluminum
  - Carousel Chemical-Resistant Polycarbonate and Anodized Aluminum
  - Burner Tip Copper
  - Fluid Path Construction Glass, PTFE, 316ss
- Electrical Class All electrical parts are UL listed/approved. 12 VDC Internal Volt
- Power Consumption 100 Watts
- Supply Voltage 100 to 240 VAC; 47 to 63 Hz
- Suggested General cleaning after use is recommended.
- Shipping Weights
  - Base Unit 21 lbs./9.53 kg
  - Purge Gas Injector 22 lbs./9.98 kg
  - Liquid Filler 27 lbs./12.25 kg

## Spare Parts

Catalog #	Description	Recommended Number
270-006	Ampulmatic Drive Belt	3
210-014	Ampulmatic Torch Tip	1

## Safety Accessories

Catalog #	Description
270-113	Mica Flame Shield
270-114	Kevlar Knit Safety Gloves – 6" Long
270-115	Glass Lampworking Safety Glasses

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