

# AUTOMATED PLATE PREPARATION

*With the MP-1000 PourMatic®  
Petri-Dish Filling System*



The PourMatic (right), can be coupled to the AgarMatic media sterilizer to provide a complete in-house automated plate preparation system

**M**P-1000 is an automated dish-filling system that produces high quality agar plates at low cost. In only 20" (52 cm) of bench space, this self-stacking automated dish filler pours up to 900 plates per hour, or 320 plates per carousel. Without operator intervention, the PourMatic aseptically dispenses agar into 100 or 60 mm Petri dishes and stacks the sterile plates in a carousel for cooling. Coupled with the AgarMatic media sterilizer, diagnostic plates can now be produced automatically whenever needed, eliminating large inventories of refrigerated plates. Because the

PourMatic has a seventeen-year record of dependable operation, it has become a standard in clinical and Q.C. laboratories throughout the world. With a variety of technologically advanced features the MP-1000 ensures a high degree of reliability under continuous operation year after year after year.

## FEATURES AND BENEFITS

- In-house automated system pours and stacks 320 plates in about 20 minutes (900 plates/hr).
- Dish filling operation is virtually unattended; audible signal indicates end of process.
- Self-stacking dish filler aseptically dispenses measured amounts of sterile agar.
- Prepare fresh plates whenever needed and eliminate storage and delivery problems.
- Specialized plates prepared quickly on demand.
- Tubing loads in seconds with cam-action pump lever.
- Dispense volumes from 5 mL to 40 mL per plate.
- Optical sensing of dish position improves reliability and reduces maintenance.



NEW BRUNSWICK SCIENTIFIC

# Pour up to 900 plates per hour with the PourMatic

## FEATURES AND BENEFITS

- User keys-in actual dispensing volume.
- Programmed plate vibrations attain smooth, uniform and bubble-free agar.
- Dispense area protected by dust cover and germicidal lamp that eliminates contamination.
- Needs only 20" (52 cm) of bench space.
- Membrane-touch pad easily wiped clean.
- Easier clean-up with spill channel conveying waste to pull-out catch-basin.
- Adaptable for pouring bi-plates with optional bi-plate dispensing kit.



Petri dishes can be aseptically filled and stacked in the PourMatic (right), an automated dish-filling system.

## NEW FEATURES

- Adaptable for 100 and 60 mm plates with optional conversion kit.
- Accommodates increased plate volumes up to 40 mL/dish.
- Dish-carrier speed can be reduced for gentle transfer of larger volume plates without spillage, and increased for rapid production rates.
- Tubing loads in seconds with single-pump lever—needs no screws or tools.
- Optical plate-position sensors increase reliability and reduce maintenance.
- Spillage trough safely conveys waste to catch-basin for easy disposal and clean-up.
- Sealed membrane keypad protects against spills; easily wiped clean.
- User-selectable cooling time, dish-carrier speed and pouring volume.
- Optional printer available for plate coding with no increase in process time.

## Specifications, PourMatic, Model MP-1000

|                           |               |   |
|---------------------------|---------------|---|
| <b>Dish Sizes</b>         |               | Accommodates major brands <sup>1</sup> of plastic petri dishes, size 100 x 15 mm and 60 x 15 mm (nominal) [Requires optional conversion kit for additional size.] |
| <b>Capacity</b>           |               | Single batch of 320 dishes (8 stacks of 40 dishes) may be filled on a batch or continuous basis   |
| <b>Dispensing</b>         | Volume        | Adjustable from 5 - 40 mL   |
|                           | Repeatability | ± 0.5 mL  |
|                           | Accuracy      | Within ± 5% (or ± 1 mL)   |
| <b>Pump</b>               |               | Peristaltic Metering Pump microprocessor controlled with digital dispense volume calibration  |
| <b>Carousel Speed</b>     |               | Selectable speeds to achieve gentle dish transfer when working with large fill volumes  |
| <b>Optical Sensors</b>    |               | Detects incomplete, or improperly positioned dish, shuts off operation and sounds alarm. Improves reliability over mechanical sensors                             |
| <b>Alarms</b>             |               | Automatic shut-off at end of filling cycle signaled by audible tone   |
|                           |               | Automatic shut-off plus audible and visual signals indicate upside down dish, half dish (dish without cover or bottom) or jammed dish                             |
|                           |               | Signal indicates when batch has cooled. Waste trough safely conveys spillage away to catch-basin  |
| <b>Overall Dimensions</b> |               | 20.4" (52.0 cm) wide x 24" (61.0 cm) front-to-back x 34" (86.4 cm) high   |
| <b>Weight, Approx.</b>    | Gross         | 110 Lbs (50 Kg)   |
|                           | Net           | 80 lbs (36.3 Kg)  |
| <b>Electrical Service</b> |               | 115 V 60 Hz (4 amps). Also 220V 50 Hz 3 amps  |

(1) 100 mm: Falcon #1029, Fisher #8-757-13, and Lab Tek 4002; 60 mm: Falcon 1007, Fisher 08-757-13A