

## Specifications

### *Mobile Media Prep & Automated Plate Pourer*

- Media Preparation System
- Media Preparation System must be mobile (on wheels).
- Media Preparation System must be compatible with existing plate pourers (at end of lifespan but will be retained as backups) and new automated plate pouring system.
- Media Preparation System must be able to prepare media batches between 1 to 20 liters.
- Media Preparation System must be able to homogenize 1 to 20 liters of prepared media within 0.5 C of set temperature.
- Media Preparation System and new plate pouring plate pouring must be programable and automated to eliminate manual steps to free up technician labor.
- Automated Plate Pouring System
- Automated Plate Pouring System must be compatible with 55 mm and 90 mm petri dishes (“plates”) used by our laboratory.
- Automated Plate Pouring System must be able to pour plates in batches of 55 to 1100 plates.
- Automated Plate Pouring System must be able to pour plates at a rate greater than 620 plates/hr.
- Automated Plate Pouring System must ensure sterility using a UV lamp.
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- Automated Plate Pouring System must integrate with a Media Preparation System to ensure precise amounts of blood, antimicrobial, or other chemical supplements are added to each plate within 0.5 C of set temperature.