KREO
technologies

Universal Plate Pourer

The universal plate pourer is an efficient, reliable instrument with unique capabilities.

It can dispense liquid media into any standard plates/dishes, including round (Petri) and rectangular/square formats. The pourer is very easy to use: simply load empty plates and media, and push the Start button. There is no need to adjust any hardware, select any programs, or even go through any menus. The instrument will automatically pour perfect plates in a contamination-free environment.

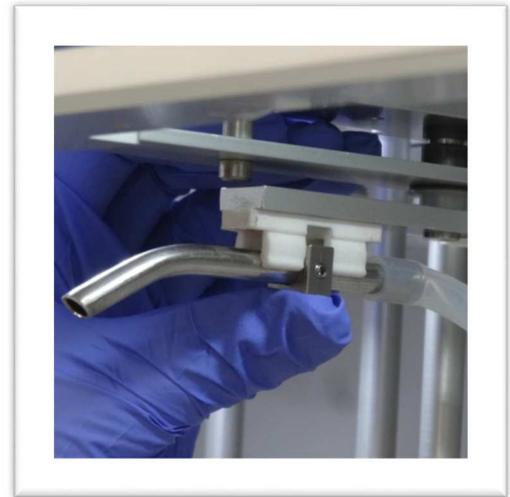## Handles variety of media plates

The pourer can process Petri dishes in three standard sizes: 60 mm, 90/100 mm and 150 mm, as well as ANSI/SBS (128x86 mm rectangular) and 100/120 mm square plates.

It will accommodate wide variations in size and style within each format. There is no need to use plates from specific suppliers, or to adjust the pourer in any way.

Fast to load and unload

Either one or two stacks of plates can be placed on the plate racks. Loading and unloading of plates is fast and safe, even when the plates are filled with liquid media. Large quantities of plates can be processed efficiently by running several batches back-to-back.

The media tube can be installed or removed in less than 30 seconds.

Prevents contamination

The plates are opened and the media is dispensed inside the fully enclosed cabinet. The germicidal UV lamp inside the cabinet can be turned on before, after, and/or during the pouring run.

The cabinet's tub-shaped bottom will contain any spills. With smooth, rounded walls and instantly removable plate racks, the cabinet is easy to clean and decontaminate.

Reliable

Optical and tactile sensors on the plate grippers work together to identify and locate the plates, and to detect any abnormal situations, such as misplaced or broken plates.
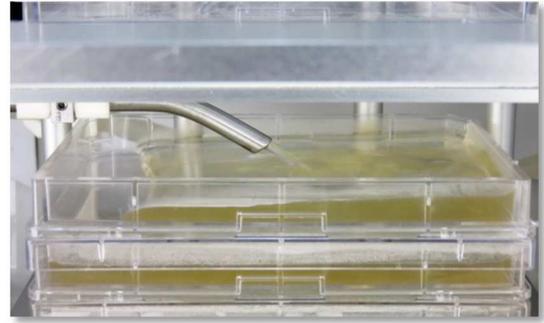
Non-contact sensing of liquid in the media tube prevents spoiled plates by detecting air bubbles before they can reach the plates.

Precise dispensing

With angled nozzle outlet and precise positioning of the nozzle tip, the media is dispensed quickly and without bubbles, regardless of media type used.

The pump calibration feature and the available low-pulsation media tube, allow dispensing precise volumes of media at high flow rates.

Easy to operate

When a new pouring run is started, the instrument will automatically identify the plate type, and will select the correct parameters: the pouring volume and speed, nozzle location for dispensing, and UV settings. It will then proceed to fill the entire batch of loaded plates.

The graphical user interface with touch-screen is simple and intuitive. It provides easy access to all controls and user-adjustable parameters. Step-by-step on-screen instructions are available for new users.

User-friendly design

The plate pourer is compact and weighs only 24 kg – less than one-half of a carousel-style pourers' weight.

The cabinet has leveling feet and built-in level indicators to help maintain uniform thickness of liquid media in plates.

The pourer runs on less than 50 W of electricity. With small external power supply, the low-voltage instrument is inherently safe to use.

Technical specification

Dimensions (W x D x H)	66 cm x 36 cm x 64 cm (26" x 14" x 25")
Weight	23.5 kg (52 lbs)
Power supply input voltage	100-240 VAC 50-60 Hz
Max. power consumption	60 W
Plate/dish types	ANSI/SBS (rectangular 128 x 86 mm) Square 100/120 mm Petri 60 mm Petri 90/100 mm Petri 150 mm
Maximum plate stack height	415 mm
Maximum batch capacity	54 @ 15 mm/plate
Pump dosing range - plate pouring	1 to 100 ml in 0.5 ml increments
Pump dosing range - pump mode (optional)	1 ml to 5 l in 0.5 ml increments
Maximum flow rate	900 ml/min.
Dosing accuracy	Approx. 1%
UV lamp	8 W G8T5 (253.7 nm, 2.5 W UV output)

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