

SERIAL
FILLER



SINGER
INSTRUMENTS

A RESPONSIBILITY TO SCIENCE!



EASY
VERSATILE
COMPACT

Waste is depressing, because your experiments are valuable, your time is valuable and your reagents are valuable. Never discard a badly poured plate ever again and optimise on repeatability, sterility and bench space.



INTRODUCTION



WHAT IS IT?

The Serial Filler is a compact, easy-to-use automated media-dispenser that pours perfectly level, bubble-free Petri or SBS plates at consistent volumes. Equipped with a UV lamp and multiple HEPA cabinet and venting filters, the Serial Filler produces superior quality agar plates of consistent volume in a sterile enclosure, which greatly reduces any threat of contamination.

WHAT DOES IT DO?

With the touch of a button on our signature user-friendly interface, the Serial Filler automatically dispenses biological growth media onto Petri dishes and plates. The quick-change Media Dispensing Kits enable easy set-up between runs for labs that use multiple media formulations.

WHAT CAN I USE IT FOR?

- Pour agar plates of any standard size and shape.
- Dispense media with high precision.
- Free up time for other important lab duties.
- Pour 50 plates in 6 minutes.



ACCEPTS A WIDE RANGE OF PETRI DISHES AND SBS FORMAT PLATES



**WHAT PLATES
CAN I USE?**

The Serial Filler accepts standard Petri dishes: 60mm, 90mm, 150mm & 120mm-square. The Serial Filler also accepts any SBS-format rectangular plates (which includes Singer PlusPlates).

HOW DOES IT WORK?

Using advanced Graboid™ technology, the Serial Filler automatically recognises the type of plate with zero user-input. It pours perfectly level, bubble-free agar by adjusting the pouring speed and volume according to plate sizes and shapes. An audible signal alerts you when your agar plates are ready.

ADVANTAGES OVER HAND-POURING

- **REDUCE WASTE** - Your experiments are valuable, your time is valuable and your reagents are valuable. Never discard a badly poured plate ever again.
- **MORE STERILE** - The anti-contamination design means plates are enclosed while lids are removed, with positive and filtered air pressure, as well as a built-in UV lamp.
- **MORE CONSISTENT AGAR VOLUME** - With a volumetric accuracy of ~3%, Each plate type has a default volume with the option to set your own pouring volume/speed for each experiment. Plate types are automatically recognised so there's no extra procedure for changing plate types.
- **SMALLER FOOTPRINT** - The Serial Filler has a much smaller footprint than a bench full of plates.
- **LESS TIME CONSUMING** - Push start and walk away. You don't need a dedicated technician to be present for the duration of the cycle; time is freed up for other important duties such as producing media for the next batch.
- **NO BUBBLES** - The Serial Filler dispenses bubble-free agar every time.
- **FLAT AGAR** - Perfectly flat agar; optimise high-throughput screening at densities of 1536 and above.

REDUCE WASTE



BUILT-IN UV LAMP FOR ANTI-CONTAMINATION



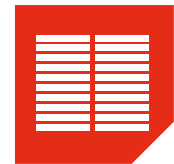
CONSISTENT AGAR VOLUME. FLAT LEVEL & BUBBLE-FREE



SMALL FOOTPRINT



POURS 50 PLATES IN 6 MINUTES



ACCEPTS SINGER PLUSPLATES



USER FRIENDLY TOUCH-SCREEN



AUTOCLAVABLE POURING TUBES



ACCEPTS WIDE RANGE OF PLATES



FREES UP TIME FOR REAL SCIENCE!



FEATURES & FUNCTIONS

Gripper plate

Main cabinet

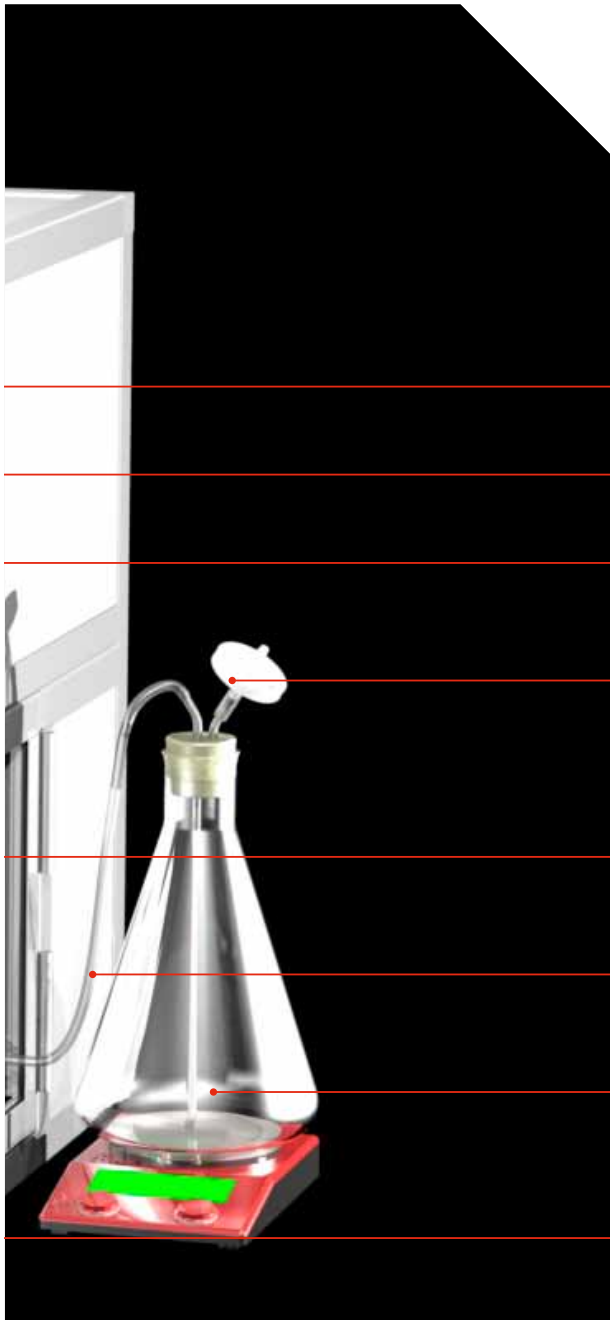
Nozzle

Main cabinet access



*"IT SAVES ME TONS OF
TIME AND THE PLATES
ARE ALWAYS PERFECTLY
FLAT!"*

· Jane Usher
University of Exeter



Touch-screen

Power switch

USB connection

HEPA Venting Filters

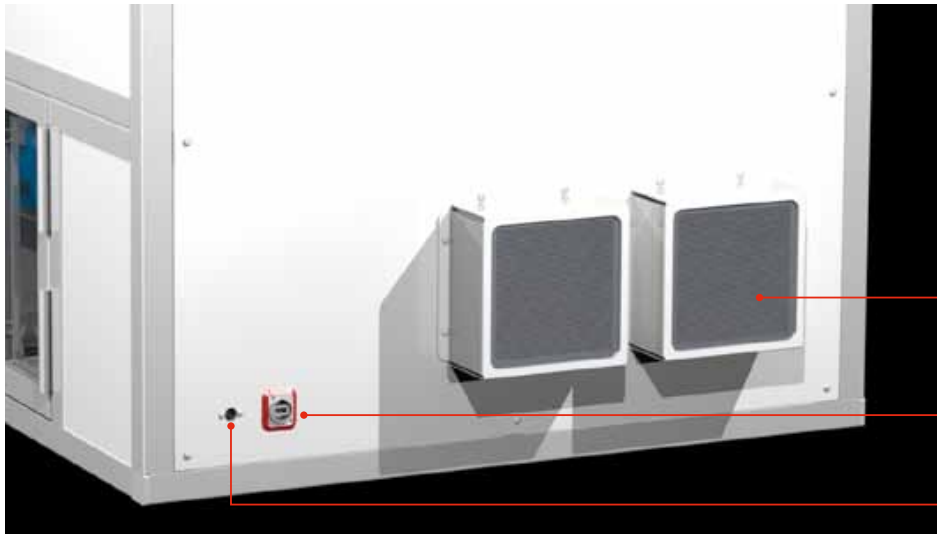
Pump

Silicone Umbilical

Flask

Level adjusters

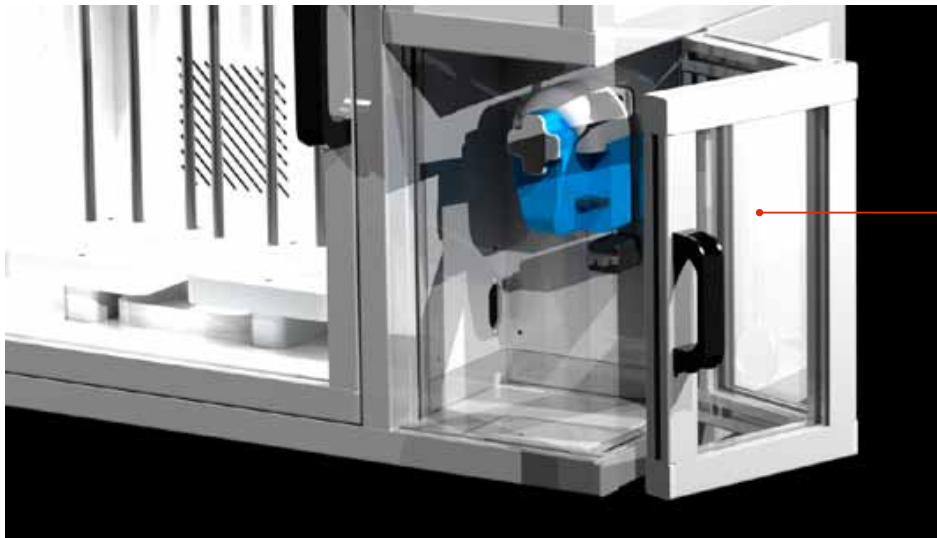




HEPA cabinet filters

Network connection

Power connection



Pump compartment access

*NEVER DISCARD A BADLY
POURED PLATE EVER
AGAIN*

TECHNICAL SPECIFICATIONS

STANDARD SET-UP

MODEL:

Serial Filler

PRODUCT CODE:

SFI-001

TECHNICAL SPECS:

Footprint:

- W: 80cm x L: 45cm
- H: 75cm
- Weight: 40kg
- Power Input: 100- 240V ~1.8A 50/60 Hz
- Power Output: 24V DC

POURING SPECS

- Plate/dish types: ANSI/SBS rectangular
Square 100/120mm
Petri 60mm, 90/100mm & 150mm
- Maximum plate stack height: 41.5cm
- Maximum batch capacity: ~50 plates
- Speed: ~50 plates in 6 mins (SBS plates)
- Optimum agar temperature: 55°C
- Volumetric accuracy: ~3%
- Maximum flow rate: 480 ml/m
- Volume adjustment increments: 1ml

UV LAMP

- 8w germicidal ultra violet lamp

HEPA FILTERS

- Class: H13
- Filters global efficiency % for MPPS particles: ≥99.95%
- Local Efficiency for MPPS particles: 99.75%
- Individually checked

All information is correct at the time of printing. Some revisions may be made as specifications are improved.

OPTIONAL EXTRAS

MEDIA DISPENSING KIT

MDK-001

Increase workflow and convenience while the other components are being sterilised. Kit includes:

- Extra bung
- Pipework
- Air filter
- 1.9m silicone umbilical
- Dispensing nozzle

2 LITRE FLASK

FLA-002

HEPA VENTING FILTERS (PACK OF 5)

HVF-001

HEPA CABINET FILTERS (PACK OF 2)

HCF-001

SILICONE UMBILICAL (PACK OF 5)

SLU-001

1 YEAR EXTENDED WARRANTY

SFI-110

3 YEAR EXTENDED WARRANTY

SFI-130



ABOUT US

For over seventy years, Singer Instruments have been designing and manufacturing cutting-edge scientific research equipment.

No one understands the needs of yeast researchers and yeast micromanipulation better than Singers. From the development of ready-made needles, the automatic MSM 400, the MicroZapper spore agitator and purpose-made XLWD objectives, to the ROTOR

HDA personal omics robot, no one has done more to make the yeast model accessible to all. From its headquarters in the beautiful Exmoor National Park in Somerset, UK, Singer ships micromanipulation systems and associated products internationally.

World-leaders in instrumentation for yeast, Singer Instruments are working hard to make continual improvements to help assist the scientific community.



THE COMPLETE HIGH-THROUGHPUT SCREENING SOLUTION

**SERIAL
FILLER**

Agar plate pouring



**ROTOR
H D A**

High-throughput screening



PHEN@BOOTH

Colony imaging & analysis





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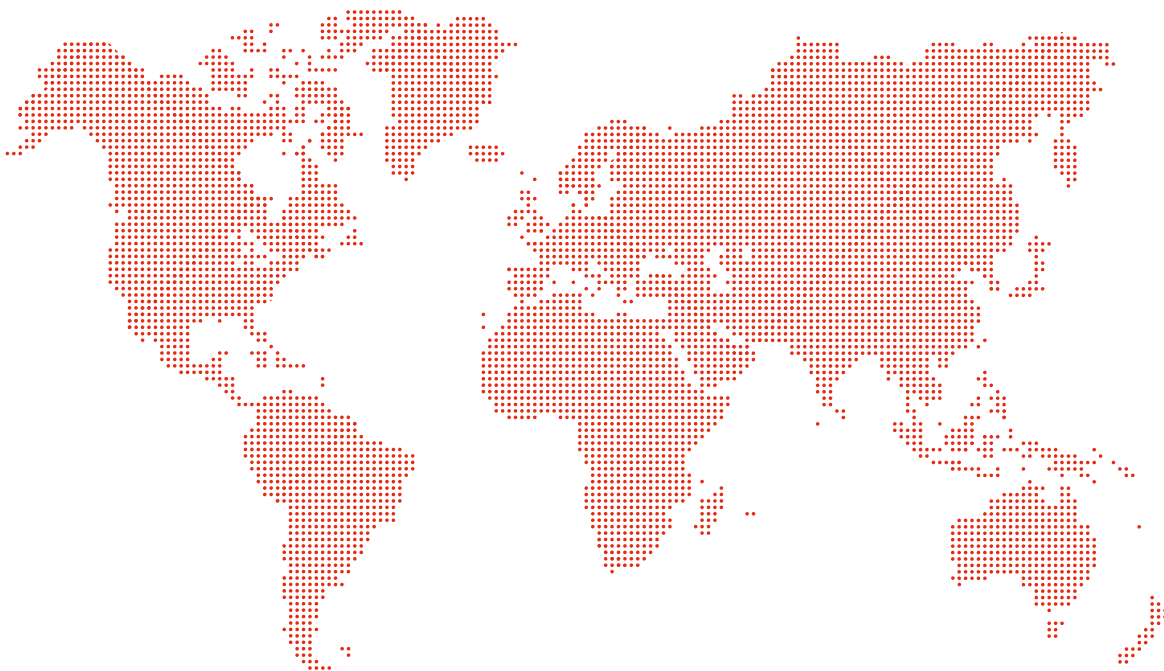
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