

MEDIAJET - Petri Dish Filler



Plug'n'Plate - 540 agar plates at the touch of a button

MEDIAJET – Highest Capacity in Minimal Space

MEDIAJET is a compact, automated Petri dish filler that requires only minimal bench space in the laboratory. It is characterized by its self-explanatory handling, as all functions can be conveniently controlled over its graphical user interface. Once the dish filling process has been started, the unit is designed to work reliably in the absence of the operator.

The MEDIAJET is the perfect complement to the INTEGRA MEDIACLAVE media preparator, as it allows the dispensing of nine liters sterilized agar media into maximal 540 Petri dishes in a single run.



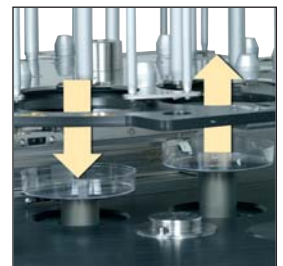
Easy Handling

All functions of the MEDIAJET can be conveniently controlled over the full size graphical user interface. The operation of the system is completely self-explanatory, as all functions are explained in plaintext and the use of the manual is virtually unnecessary.



Reliable Walk-Away Automation

MEDIAJET ensures a reliable and independent operation, as the dishes are at all time mechanically guided within the system and monitored by a set of sensors during the filling process. Typical variations in the diameter or shape of the disposable plastic dishes, as well as rims present on the lid or bottom of the dishes are easily handled by the unit, resulting in a trouble free performance.

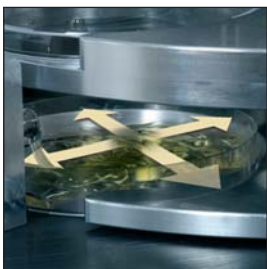


Eliminating Sources of Contamination

For a consistent agar plate quality, maintaining a clean environment during the dispensing process is essential. The surface of the filling chamber is manufactured of a single piece of resistant PE which allows a convenient and efficient cleaning.

The MEDIAJET is equipped with a UV lamp extending over the full length of the rotor where the dishes are opened during the dispensing process. The lamp emits powerful 2.1 W UVC radiation and therefore develops optimal bactericidal efficiency in the area most vulnerable to contamination.





Media Cost Reduction

The MEDIAJET has a built-in "Agar Spread Function" which ensures a homogenous distribution and an even surface of the agar. It helps to minimize the agar level in the Petri dish and thereby allows a significant reduction in media costs.



Quality Control

MEDIAJET provides all features necessary to support the individual needs in quality control. All process relevant information can be documented using a standard label printer or by directly transferring the information to a personal computer. When working in connection with MEDIACLAVE this data can also be printed on its embedded label printer.

By labelling the agar plates with the optionally available inkjet printer module, a consistent product traceability is guaranteed. Ask for support on your IQ and OQ certification efforts.

Technical Data

Dimensions

| | |
|---------------------------|--------------------------|
| Basic Device (L x W x H) | 655 mm x 634 mm x 330 mm |
| Height with 360 Carrousel | 1070 mm |
| Height with 540 Carrousel | 1405 mm |

Net weight

| | |
|---------------|---------|
| Basic Device | 47.0 kg |
| 360 Carrousel | 6.5 kg |
| 540 Carrousel | 6.2 kg |

Petri dish

| | |
|-------------|--------------------|
| Capacity | 360/540 Ø90 dishes |
| Dish Height | 14 - 25 mm |

Pump

| | |
|------------------------|---------------------------------|
| Dosing Range | 1 - 99 ml |
| Dosing Reproducibility | circa 1% (at 15 ml) |
| Maximal Dosing Rate | 500 ml/min |
| Filling Rate | circa 900 dishes/hour (at 15ml) |
| Filling Delay | 0 - 9.9 sec |

UV-Lamp

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|---------|---------------------------|
| UV-Lamp | 11W (2.1 W UVC, 253.7 nm) |
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Interface

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| Interface | 2 x RS232, Alarm |
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Power supply

| | |
|---------------|----------------------|
| Consumption | 200 W |
| Input Voltage | 100 - 240 V 50/60 Hz |
| Fuses | T 2A (2x) |

Ordering information

| | Description | Unit | Item No. |
|---------------------|--|------|----------|
| MEDIAJET 360 | MEDIAJET dish filler unit with peristaltic pump and carousel for 360 Petri dishes. Including 1 tubing set (6 x 9 mm) with filling nozzle | 1 | 103 000 |
| MEDIAJET 540 | MEDIAJET dish filler unit with peristaltic pump and carousel for 540 Petri dishes. Including 1 tubing set (6 x 9 mm) with filling nozzle | 1 | 103 001 |

Options (only available with the purchase of a base unit)

Plate Cooling

The optional plate cooler is built directly into the surface of the filling chamber and accelerates the solidification of the agar medium.

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| Cooling plate option | 1 | 103 050 |
|----------------------|---|---------|

Accessories



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| MEDIAJET carousel with a capacity of 360 Petri dishes | 1 | 103 020 |
| MEDIAJET carousel with a capacity of 540 Petri dishes | 1 | 103 021 |
| Tubing set including 1.5 m silicone tubing (6 x 9 mm) and filling nozzle | 1 | 103 030 |
| Standard silicone tubing (6 x 9 mm, 10 m length) for MEDIAJET | 1 | 103 031 |
| Filling nozzle for 6 x 9 mm tubing | 1 | 103 032 |



Dish Labeling

The optional inkjet printer permits to apply a wide variety of information onto the Petri dish, like alphanumeric text, expiry/production date or barcodes.

The imprint does not infringe with any plate reader or colony counter, as it is located on the side of the Petri dish base.

| | | |
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| Connecting kit for Imaje 9020 inkjet printer including the fixing device and the interface cable | 1 | 103 080 |
| Table stand for Imaje 9020 inkjet printer | 1 | 103 085 |



Independent Pump Functions

The MEDIAJET pump can be independently used for other applications, like the manual filling of tubes or bottles. Dispensing can be conveniently triggered with the optionally available footswitch.

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| Footswitch with connecting cable | 1 | 143 200 |
| Stainless steel outlet cannula with collar for 6 mm tubing | 1 | 177 066 |

Accessories for preparation of blood agar



Control of a Second Pump

MEDIAJET allows the control of a second, stand-alone pump unit. This accessory is specifically useful to continuously mix additives like blood into the agar immediately before pouring the plates, which minimizes the thermal denaturation of the additive.

| | | |
|---|---|---------|
| Tubing set for the preparation of blood agar (suitable to add 3 to 10% blood in connection with the INTEGRA peristaltic pump) | 1 | 103 040 |
| Electrical interface cable for combination with DOSE-IT peristaltic pump and MEDIAJET | 1 | 103 045 |
| Single tubing set (2 x 6 mm, length 1.6 m) for dosing volumes of 1-5 ml | 1 | 179 030 |
| Glass T-piece | 1 | 179 098 |
| Suction needle stainless steel | 1 | 179 147 |

INTEGRA Biosciences AG

CH-7000 Chur, Switzerland
 Phone: +41 81 286 95 30
 Fax: +41 81 286 95 33
 E-mail: info@integra-biosciences.com
www.integra-biosciences.com

