

## EXTERNAL DOSING STATION

DW-MP-TS

AUTOMATION AND ACCELERATION  
OF THE DISPENSING PHASE

ACCESSORY



# External dosing station

## APPLICATION

- + Equipment constructed and designed for use in conjunction with media preparators inside a laminar flow hood in laboratories that dispense culture media.
- + It allows for the automation and acceleration of the dispensing phase in repetitive operations of medium and large volumes.

## INCLUDED ITEMS

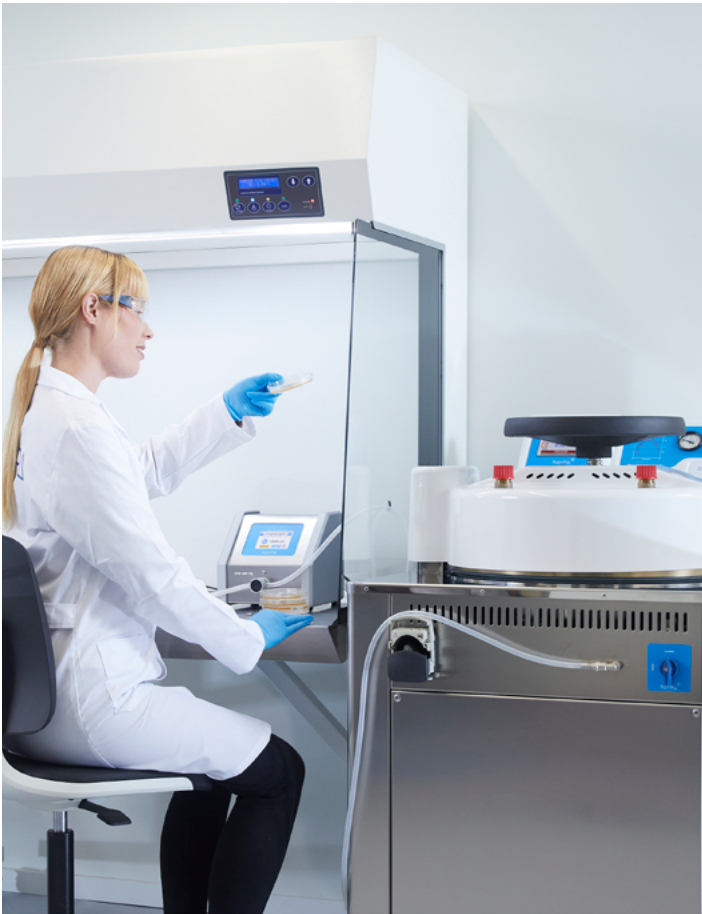
- 1 control box with dosage selection.
- 1 dosing pedal.
- 1 optical sensor.
- 1 power cable.
- 1 sensor connection cable.
- 1 instruction manual.


## OPERATION

Compatible with dispensing lines of Ø6,4mm, Ø4,8mm and Ø4mm, there are two mechanisms available for triggering each dispensation: either manually using a foot pedal or through a semi-automatic process activated by an optical sensor.

The dispensing speed will depend on the density of the culture media and the chosen pressure support within the media preparator. As a guideline, the range of dispensing speeds using a Ø6,4mm dispensing line is as follows:

Pressure support Bar	1	0,9	0,8	0,7	0,6
Dispensing speed mL/s	100	94	87	76	65



 There is the option to customize this system according to the customer's needs, with modifications such as increasing the dispensing line's length and the incorporation of bifurcations to work with multiple dosing stations with a single media preparator.



## BENEFITS



### Intuitive interface

Modern touchscreen display that's user-friendly and easy to navigate. A screen lock feature prevents unintended triggering of the pinch solenoid valve.



### Greater accuracy

The use of stabilized pressure support ensures precise dosing.



### Automatic self-cleaning and disinfection of the dispensing lines

This accessory is fully designed to work seamlessly with the media preparator's automatic cleaning features, greatly minimizing the chance of cross-contamination and efficiently clearing away any residues. This eliminates the need for manual cleaning or sterilization of the dispensing lines.



### Suitable for use in diverse locations

Possibility of transferring the dispensing line through barriers such as glass or walls, making it ideal for use in laminar flow hoods or clean rooms.



### Improved productivity

This system allows for significantly higher dispensing speeds, ranging between 65 to 100 mL per second.



### Multiple programs

Allows dispensing at different speeds and volumes making it compatible with various types of containers and applications. The equipped microprocessor includes 10 predefined programs, customizable by name, diameter of the dispensing line, programmed pressure support, volume of media dispensed and delay time.

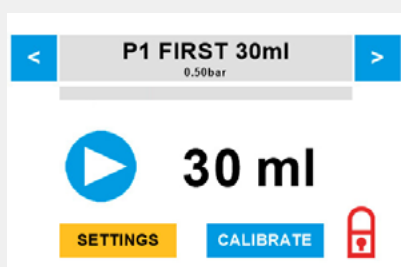
# External dosing station

## MAIN COMPONENTS

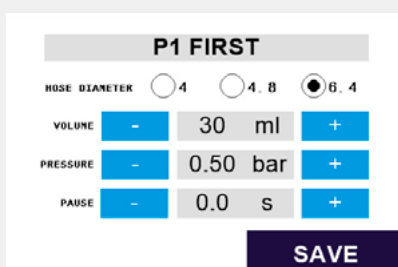




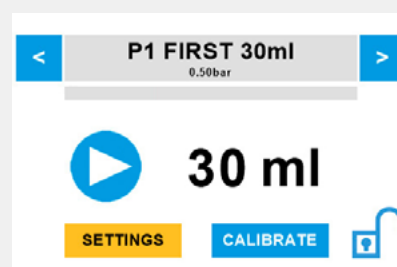
## HOW TO SET UP A DISPENSATION PROGRAM



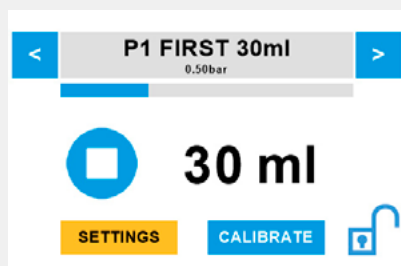
1. Select the desired program using the arrows.



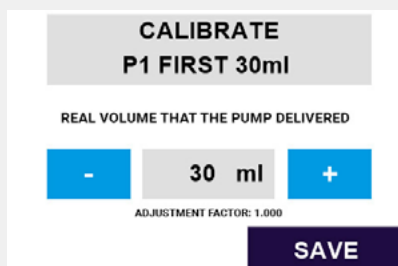
2. Click on the program to edit or check the parameters. By clicking the program name, the name can be edited.



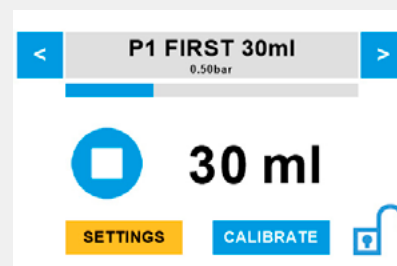
3. Click on the lock icon and unlock the system.



4. Start the first dispensing test and measure the exact volume obtained.



5. Fill in the obtained volume on the first test run and press save. The system will adjust the dispensing speed to obtain the target dispensing volume.



6. Proceed with the dispensing.

The system includes 10 predefined programs, each with customizable names and settings, ensuring easy operation and versatility for various applications.





## External dosing station

### INSTALLATION AND MAINTENANCE



#### ASSEMBLY AND BASIC REQUIREMENTS

Follow the instructions in the specific accessory's manual for assembling the external dosing station.

If an AE-20-MP or AE-40-MP media preparator is used, it must have the CP-MP air compressor pre-installed. All other models already include the air compressor by default.

We advise to always keep the external dosing station situated inside a laminar flow cabinet.

#### CLEANING OF THE DISPENSING LINES

The equipment does not require any specific maintenance, but the dispensing lines should be cleaned regularly to prevent possible blockages and contaminations. All our media preparators include automatic self-cleaning and disinfection processes for the dispensing lines, in order to save time and minimize the risk of cross-contamination.

Over time, it is advisable to replace the dispensing lines with new ones.



## CONNECTION WITH A MEDIA PREPARATOR



1. Connect the free end of the dispensing line to the dispensing port of the media preparator.



2. Place the dispensing line inside the pinch solenoid valve of the external dosing station.



3. Place the clamps on the vertical stand at the desired height, ensuring the line's metal part is fastened by the lower clamp.



4. Connect the optical sensor or the foot pedal to the external dosing station, depending on the dispensing system to be used.

## Technical data



Reference	DW-MP-TS
Dimensions L x D x H mm	210 x 285 x 200
Weight Kg	2,85
Power W	50
Voltage V	90 - 250
Frequency Hz	50/60
Power cord length m	1,5

## Accessories



### DISPENSING LINES

Extra units of 4, 4,8 and 6,4mm can be acquired as spare parts. The dispensing lines can be tailored to include bifurcations or to adjust their length.

Ref. TUB-DOSIF-6,4



### COMPRESSED AIR SYSTEM

It is included with all our media preparators, with the exception of the AE-40-MP, AE-20-MP, and AE-20-MP-10L models. Installation must be carried out at our factory.

Ref. CP-MP



### SPLITTING OF DISPENSING LINES

Custom modification to divide the dispensing lines, enabling the supply of two distinct workstations from a single media preparator.

Ref. BIF2-MP

## Certifications and regulations

- **EN-61010-1** Safety requirements for electrical measuring, control and laboratory use equipment. Part 1: General requirements.
- **EN-61326** Electrical equipment for measurement, control and laboratory use. Electromagnetic compatibility requirements (EMC).
- **2014/35/UE** Low voltage.
- **2014/30/UE** Electromagnetic compatibility.
- **UL/CSA** Specific certification on electrical design available upon request.



### REAL-WORLD SCENARIO

Watch how an actual customer utilizes this accessory

