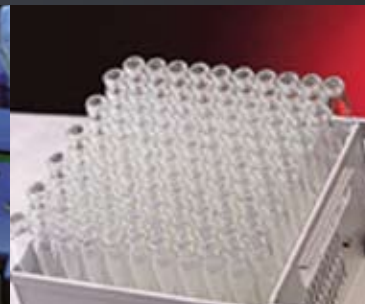


**PM05<sup>®</sup>**  
High-precision  
peristaltic  
dispenser

**XY500<sup>®</sup>**  
Robotic  
module



**AES**   
**CHEMUNEX**  
Your partner...  
*from sample collection to results*  
...in microbiology





# PRODUCTIVITY, TRACEABILITY, SAFETY

This automated filling system represents a cost-effective solution by replacing manual operations with equipment for rapid and accurate filling. Consisting of a high precision dispenser PM05 and a highly repeatable robotic module XY500, it ensures the automated filling of tubes, bottles, impedance cells, etc. for greatly enhanced laboratory productivity.

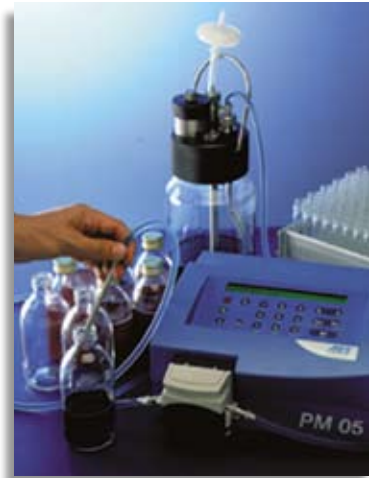
« Dedicated to those who seek for performance »

## PM05 peristaltic pump

- For the automated dispensing of :
  - broth,
  - agar in plates,
  - tubes or flasks.

The PM05 peristaltic pump automatically dispenses volumes from 1ml to 500 ml with a high degree of accuracy.

It has an alpha numeric keyboard which, when combined with a printer, allows full integration within GLP-compliant laboratories.



### User-friendly

- Easy to program using the menu-driven keypad.
- Up to 20 programs can be stored in the memory
- Easy to load tubing makes the operation quick and easy.
- Compact and easy to handle.



### Performance

- Manual or automatic operation** : enter the quantity of doses to be dispensed and the interval delay time.
- A stand-by mode keeps the culture media recirculated, thus keeping the media in suspension at the dispensing temperature.
- Foot switch connection for an optimal performance adapted to the operator.



### Traceability (optional)

A print-out of all dispensing parameters (batch number, user code, dispensed volume...) complies with GLP (optional printer).



### Repeatable

- Precision of  $\pm 0.1$  ml for doses up to 20 ml.
- Automatic calibration.
- Calibration data can be individually saved in each program.
- Anti-drip feature.
- Ideal for 9 ml dilution tubes for food analysis and water laboratories which care about volume precision.

```

P M 0 5
-----
Laboratoire :
Date : 17/12/10      Heure : 14:33
CALIBRATION
Volume de calibration : 0009,0 ml
Volume mesuré : 0009,00 ml
Nombre de tours : 9,000 tr
PARAMETRES PROGRAMME
16 : TEST
Cycle pompe : Manuel
Vitesse pompe : 400 tr/min
Volume par dose : 0009,0 ml

PARAMETRES CYCLE
Nombre de doses : 20
Volume total distribué : 00220,0 ml
Numero de lot : 12356
Code operateur : RCH
Signature :

-----
P M 0 5
-----
Laboratoire :
Date : 17/12/10      Time : 14:36
CALIBRATION
Calibration volume : 0009,0 ml
Measured volume : 0009,00 ml
Number of rotations : 9,000 r
Program parameters
16 : TEST
Pump cycle : Manual mode
Pump speed : 400 rpm
Volume per dose : 0009,0 ml

CYCLE PARAMETERS
Number of dose : 20
Total dispensed volume : 00270,0 ml
Batch number : 24556
Operator's identification : RCH
Signature :
  
```





« Your time is precious,  
let the XY500 work  
for you »



### User-friendly

Two racks of 252 tubes each can be filled in the same cycle. The dynamic loading is a concept that has been developed by AES CHEMUNEX to ensure the loading of 252 tubes directly from the original packaging.

4 different 96 tube-racks are available.

### Versatile

The XY500 robotic module automates the filling of tubes (200 mm max. H.), bottles, impedance cells, etc.

The stand-by mode keeps the culture media in suspension.

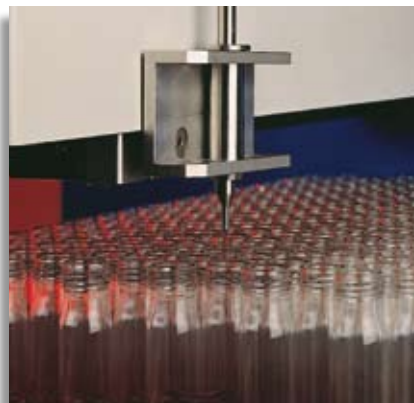
Switching from tubes to bottles filling can be made in seconds.



### Productive

Easy to program using the menu-driven membrane keypad.

The user can program the XY500 with their specific settings in less than one minute (more than 1000 tubes/hour with 9 ml or 10 ml).



### Reliable

Automatic repositioning of the dispensing tip by stepper-motor ensures a greater accuracy and repeatability of filling.

## XY500 Robotic module

When used in conjunction with the PM05 peristaltic pump, the XY500 robotic module automates the filling of flasks and bottles.

- Optimise the productivity of your laboratory with the XY500 .
- 500 tube capacity!
- Rapid, secured and customised programming.



## SPECIFICATIONS

### PM05® high-precision peristaltic dispenser

- Dispensed volume from 1.0 to 9999 ml.
- Dispense accuracy  $\pm 0.1$  ml for doses up to 20 ml,  $\pm 1\%$  over 20ml.
- Quantity of doses 1 to 999 in automatic mode.
- Interval time delay 0.1 to 99.9 s.
- Max. flow rate 1,600 ml/min.
- Fast tubing change pump head with 3 rollers.
- Dimensions: W x D x H : 280 x 220 x 150 mm.
- Weight : 8 kg.
- Power : 115/230V - 50/60 Hz.

#### Product codes:

AESAP1053 : Pump PM05 Includes a foot switch and a complete set of tubing.

#### Option:

AESDI0042A : Printer.

### XY500® robotic module

- Tray dimensions: W x D x H : 710 x 500 x 20 mm.
- Positioning repeatability > 99%
- Interface for PM05 connection: RS232
- Overall dimensions:  
W x D x H : 710 x 650 x 450 mm.
- Weight: 25 kg.
- Power: 115 or 230 V (to be specified on your purchase order)  
50/60 Hz.

#### Product codes:

AESAP1035 : XY500 Robotic module includes one adjustable rack for 252  $\varnothing$  18 mm tubes, one waste tray and 2 dispensing tips.

#### Accessories:

AESXY0072: 96 tube rack ( $\varnothing$  18 mm)  
AESXY0073: 96 tube rack ( $\varnothing$  16 mm)  
AESXY0074: 96 tube rack ( $\varnothing$  14 mm)  
AESXY0075: 96 tube rack ( $\varnothing$  20 mm)



Since 1980 AES CHEMUNEX has developed, manufactured and marketed the most comprehensive range of tests, analyzers and equipment for microbiology laboratories.

## Prepare culture media automatically with Masterclave® Preparators

Masterclave® 09



Masterclave® 528



Masterclave® 60



# EXPERIENCE CANNOT BE COPIED!



Over the last 30 years, AES CHEMUNEX has manufactured millions of ready-to-use culture plates and a comprehensive range of automated equipment. Our automated systems are designed, tested and validated in an industrial Petri dish manufacturing environment. This means that by purchasing our equipment you are benefiting from invaluable industrial AND laboratory experience.

**AES CHEMUNEX**  
Your partner...  
from sample collection to results  
...in microbiology

[www.aeschemunex.com](http://www.aeschemunex.com)

ISO 9001: v 2008  
LRQA FAQ 9914921

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