



# DiluCult™ and DiluCult™ 2

## Intended Use

DiluCult™ and DiluCult™ 2 automated gravimetric dilutor instruments are designed to facilitate work in a microbiological safety cabinet. They are low in height and have a removable drip tray.

## Features of DiluCult™ and DiluCult™ 2 Instrument

- 3 modes of dispensing:
  - Fast: Fast flow with lower accuracy
  - Standard: Standard flow with standard accuracy
  - Accurate: Slow flow with optimal accuracy
- Authorized weight:
  - DiluCult™: 3000 g
  - DiluCult™ 2: 5000 g
- Robotic arm on DiluCult™ 2
- Digital display/control panel
- Easy calibration
- Booster kit (an additional pump) available
- Monitoring software available

### DiluCult™ Instrument:

- Fixed dispensing arm
- Nozzle holder
- Bag holder
- Tubing holder
- Removable drip tray

### DiluCult™ 2 Instrument:

- Robotic arm
- Nozzle holder
- Bag holder
- Protecting plate for nozzle
- Removable drip tray
- Tubing holder

## Ordering Information

Catalog Number	Instrument
5427530001	DiluCult™
5427600001	DiluCult™ 2
Related Product	
5623360001	Enrichment Sample Homogenizer

## Operator and Equipment Safety

- Place the DiluCult™ and DiluCult™ 2 instruments upright on a clean, flat, stable, horizontal, dry, well-ventilated surface, away from any source of excessive heat and close to an easily accessible, properly grounded power supply outlet
- Do not expose the DiluCult™ and DiluCult™ 2 instruments to liquid
- Before cleaning, shut down the DiluCult™ and DiluCult™ 2 instruments and disconnect them from the power source
- Do not apply shock or excessive pressure to the weighing cell
- Ensure that the drip tray is correctly positioned
- Be sure that there are no visible defaults such as unstable zero or zero drift
- Do not put fingers in the pump. Fingers could be pinched



## Specifications

Category	DiluCult™ Instrument	DiluCult™ 2 Instrument
Catalog number	5427530001	5427600001
Weighing range	0.1 g to 3,000 g	0.1 g to 5,000 g
Weighing accuracy	0 to 100 g: ± 0.05 g 100 g to 3,000 g: ± 0.1 %	0 to 100 g: ± 0.05 g 100g to 5,000 g: ± 0.1 %
Minimum weight for dilution		5 g
Minimum weight for distribution		5 g
Minimal weight of the sample		1 g
Maximum authorized weight	3000 g	5000 g
Ideal functioning temperature for optimal accuracy of the weighing platform		-10 °C / + 40 °C
Accuracy of the instrument from 1 to 100 g		± 0.05 g
Accuracy of the instrument from 100 to 5,000 g		± 0.1 %
Maximum weight without support	4,500 g	7,000 g
Dilution factor		1/2 to 1/99
Dilution accuracy	> 98 %	> 99 %*
Dilution time for a 25 g sample diluted at 1/10		< 9 s**
Dilution time for a 375 g sample diluted at 1/10	—	< 80 s**
Dispensing time for 90 mL		< 7 s **
Dispensing time for 225 mL		< 10 s**
Maximum number of pumps		2 integrated
Dispensing/ distribution mode		Fast / Standard / Accurate
Traceability	Printer® / Monitoring software (data export to Microsoft® Excel®, OpenOffice® Calc, LibreOffice® Calc, printer)	
Exported data	Sample weight / Total weight / Dilution factor / Dilution accuracy / Right or left pump + with monitoring software: Sample number / Name of operator / Date / Time	
Connection	RS232 output: To connect a printer USB output: To connect a computer Jack output: To connect a foot pedal	
Weight		12 kg
Dimensions (width × depth × height)	37 × 44 × 38 cm 14.6 × 17.3 × 14.9 in.	37 × 48 × 38 cm 14.6 × 18.9 × 14.9 in.
Power source	100V~ to 240V~ 50 to 60 Hz	
In compliance with	ISO 7218 / ISO 6887-1 / FDA-BAM EI 61010-1: 2010	

For further details including distribution, maintenance and troubleshooting, see the **DiluCult™ and DiluCult™ 2 User Guide**.

### To place an order or receive technical assistance

In the U.S. and Canada, call toll-free 1-800-645-5476

For other countries across Europe and the world, please visit:  
**EMDMillipore.com/offices**

For Technical Service, please visit: **EMDMillipore.com/techservice**

**EMDMillipore.com/dilutionpreparation**

MilliporeSigma  
400 Summit Drive  
Burlington, MA 01803

