

# BabyGravimat® & Gravimat®

Gravimetric dilutors for solid samples



For quick and precise dilutions

interscience



## Our quality for your lab

- Full range of lab instruments for microbiological analyses
- Designed and made in France
- Leadership in R&D for innovative products
- Worldwide distribution network in more than 85 countries

For over 30 years, **interscience** has been designing and manufacturing products for microbiology labs to ensure work efficiency and guarantee consumer health and safety. **BabyGravimat®** and **Gravimat®** are part of the **BagSystem®**, a full range of products to optimize sample preparation:



# Why use a gravimetric dilutor?

**BabyGravimat®** and **Gravimat®** gravimetric dilutors enable the automation of the dilution of the sample with optimum reliability. See the following advantages:

**MANUAL DILUTION**

**1. Sample weighing**  
The bag is not maintained:  
**No security**

**2. Manually adding the diluent**  
**Low accuracy and long process**

- Manual dilution:**
- **Time-consuming**
  - **Inaccurate:** direct impact on final result
  - **Depends on the user and the equipment**
  - **Not reproducible**

**AUTOMATED DILUTION**

**1. Placing the sample**  
The bag is maintained:  
**Security**

**2. Start the dilution**  
The quantity of diluent to add is measured automatically:  
**Accurate and precise**

**3. The dilution is carried out in a matter of seconds**  
**Fast**

- Automated dilution with Gravimat®:**
- **Quick:** 8 seconds for 225 mL (with booster kit)
  - **Accurate:** < 1 % of sample weighing  
< 1 % of dispensing
  - **Reproducible**
  - **Secured** with BagOpen® bag opener
  - **Traceable:** with LIMS, printer or Excel™

# Easy-to-use and efficient, 2 models for optimal dilutions



**Easy cleaning**  
All stainless steel

**Robust**  
Fixed arm

**Easy-to-use**  
2 keys for 1 dilution

**Superior quality**  
Watson Marlow™ peristaltic pumps

**BabyGravimat®**  
User-friendly and accurate

1 000 g maximum weight  
Dilution factor from 1/2 to 1/99  
Weighing accuracy < 0.1 g

ISO  
7218

## Traceability

LIMS, printer, bar code...

Data	BabyGravimat®	Gravimat®
Sample n°		✓
Date and time		✓
Date and time of last tare		✓
User name		✓
Pump	✓	✓
Diluent assigned to pump		✓
Sample weight	✓	✓
Final weight	✓	✓
Dilution rate	✓	✓
Accuracy	✓	✓

**225 mL  
in 8 secs!\***

**Preset dilution and  
distribution methods**

### Guaranteed sterility

Tubings removable  
without tools and autoclavable

**Largest screen  
on the market**

## Gravimat®

High performance and traceability

**2 500 g maximum weight** (5 000 g available with JumboGravimat® model)

**225 mL in 8 secs with booster kit: 2x quicker (optional)**

**Dilution factor from 1/2 to 1/999**

ISO  
7218

ISO  
6887-1

\*with booster kit

# High-tech dilutions:

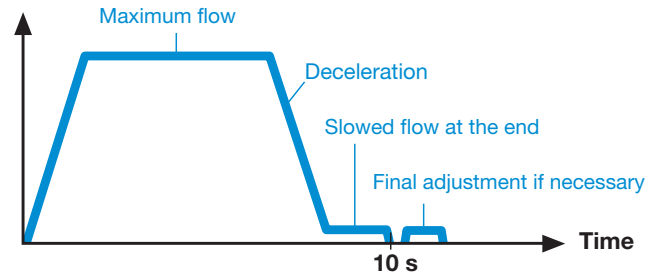
## Autoclavable tubings designed for labs



All the liquid is intaken thanks to a tube weight at the bottom of the bottle. Tubings are screwed to the GL45 cap and intake all the distribution liquid.

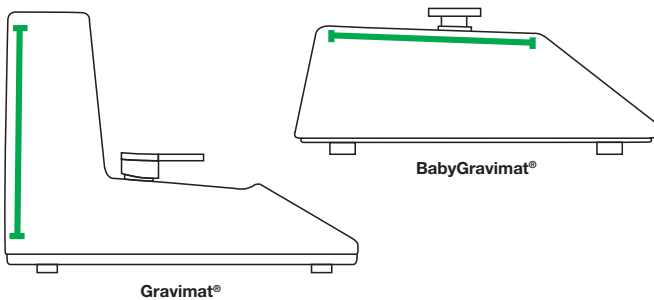
## High-tech flow regulation

### Diluent flow



Our dilutors are equipped with a high-tech flow regulator. The flow is slowed down at the end of the distribution and automatically adjusted. For a 25 g sample diluted to 1/10, the accuracy is superior to 99 %.

## Protected electronics



Units are resistant to liquid projections and to cleaning thanks to the protected electronics located at the back of the unit or under the panel.

## Easy work under laminar flow



Work under laminar flow is easy thanks to the compact, ergonomic keypad and dilution pumps on the side.

## Big samples dilution with JumboGravimat®\*



A 5000 g weighing platform with **JumboGravimat® BagOpen®** bag opener allows the dilution of samples up to 400 g. It is ideal for labs doing meat analyses, child milk powder analyses, E Coli O157:H7 analyses, salmonella analyses...

## The most compact stand for broth bags



Thanks to an integrated stand for broth bags, our dilutors are the most compact on the market. With 37 cm maximum width, they enable great space saving on lab benches and under laminar flow.

\*Please consult us for more information.

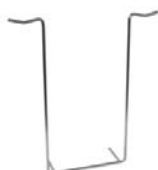
# Accessories & technical specifications



## RS 232 Thermal printer

Prints all distribution data (date, time, operator). (paper 521 110 - labels 521 012)

Ref 521 000



## Stand for broth bags

Integrated to the unit, for suspending the bags of diluent.

Ref 513 013



## Independent stand for bags

To easily store diluent bags up to 20 L.

Ref 513 015



## Adjustable arm\*

For adjusting the height of the nozzle from 9.5 cm to 47 cm from the weighing platform.

Ref 513 014



## Booster Kit\*\*

Accelerate the dispensing speed up to 225 mL/8 sec.

Ref 511 000



## Pedal\*

For hands-free dispensing. Connection with a 3.5 mm Jack.

Ref 507 008



## Bar-code reader\*\*

For total traceability of the samples.

Ref 522 000



## Dispensing arm\*\*

To use the unit under a laminar flow hood.

Ref 513 002

\*On **BabyGravimat®** \*\*On **Gravimat®**

**BabyGravimat®** is delivered with 1 arm, 1 or 2 pumps, 2 sets of inner Ø 4,8 mm autoclavable tubings per pump, power cord, 1 BagOpen® 400, user's manual, quick user guide, free sample bags: BagPage® + 400, BagFilter® 400.

**Gravimat®** is delivered with 1 or 2 pumps, 5L autoclavable bottle, 2 sets of inner Ø 6,4 mm autoclavable tubings per pump, power cord, 1 BagOpen® 400, 1 round weighing platform, quick user guide, free sample bags: BagPage® + 400, BagFilter® 400 P, BagFilter® 400 S and BagLight® Polysilk®.

		BabyGravimat®		Gravimat®	
		Single pump	Double pump	Single pump	Double pump
Technical specifications	Reference	500 230	502 230	510 230	512 230
	Ultra-quick tare (< 1 sec)	✓		✓	
	Language	English		English/French/German/Spanish/Italian/Chinese/Japanese	
	Maximum charge	1 000 g		2 500 g (5 000 g model available)	
	Power	100-127 / 220-240 V~ 50/60 Hz		100-240 V~ 50/60 Hz	
	Dimensions (l x w x h)	32 x 36 x 16 cm	38 x 36 x 16 cm	32 x 45 x 42,5 cm	38 x 45 x 42,5 cm
	Weight	8 kg	9 kg	12,2 kg	12,4 kg
	Dilution time for a 25 g sample diluted at 1/10	< 16 sec		< 16 sec < 8 sec with booster kit	
	Dispensing time	< 16 sec for 225 mL		< 16 sec for 225 mL < 8 sec for 225 mL with booster kit	
	Dilution factor	1/2 to 1/99		1/2 to 1/999	
	Weighing accuracy	0 to 100 g: ± 0,1 g 100 to 1000 g: ± 0,1%		0 to 50 g: ± 0,05 g 50 to 2500 g: ± 0,1%	
	Final weight accuracy in dilution and dispensing (for a final weight < 100 g, use inner Ø 3,2 mm tubings)	< 2 %		< 1 %	
	Traceability	RS 232 output for info transfer to Excel™, LIMS or printer		USB and PS2 input for keyboard or barcode reader RS 232 output for info transfer to Excel™, LIMS or printer	
All stainless steel			✓		
Guarantee	Made in France			✓	
	1 year guarantee			✓	

For more info about the **JumboGravimat®** model, please consult the [www.interscience.fr](http://www.interscience.fr) website

Certified production:



