

The best solution for your 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





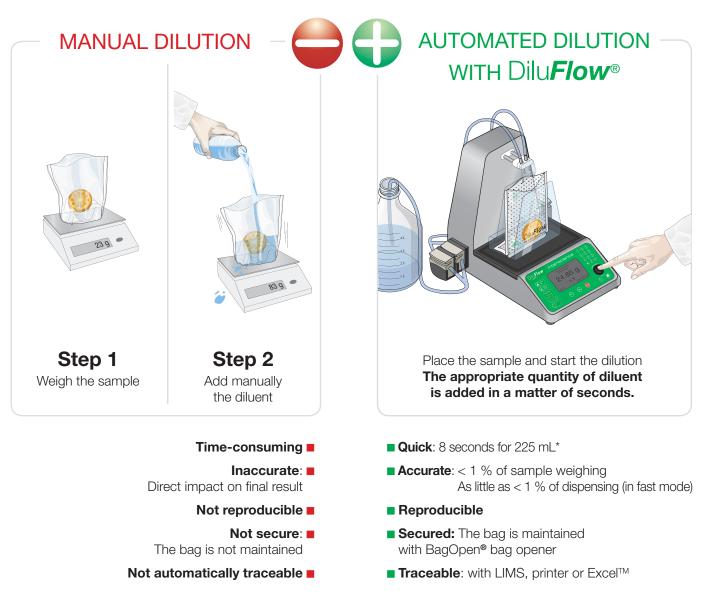


For over 30 years, intenscience has been designing and manufacturing products for microbiology labs to ensure work efficiency and guarantee consumer health and safety. Dilu*Flow*® are part of the **BagSystem**®, a full range of products to optimize sample preparation:



Why use a gravimetric dilutor?

Dilu**Flow**® gravimetric dilutors enable the automatic dilution of the sample with perfect reliability. See the following advantages:



Easy-to-use and efficient, 3 models for optimal dilutions







	Dilu Flow ®	Dilu Flow® Pro	Dilu <i>Flow</i> ® Elite
Ultra low profile	✓	✓	✓
DripTray	✓	✓	✓
Robotic arm	-	✓	✓
Jumbo kit option	-	✓	✓
Programmable	-	·	✓
Full traceability	-	·	✓
Up to 6 pumps	-	-	✓
MultiDispensing	-	-	✓

Superior quality

Watson Marlow™ pumps



To export the results





Up to 6 diluents

With 4 connectable pumps⁽¹⁾

IN COMPLIANCE WITH





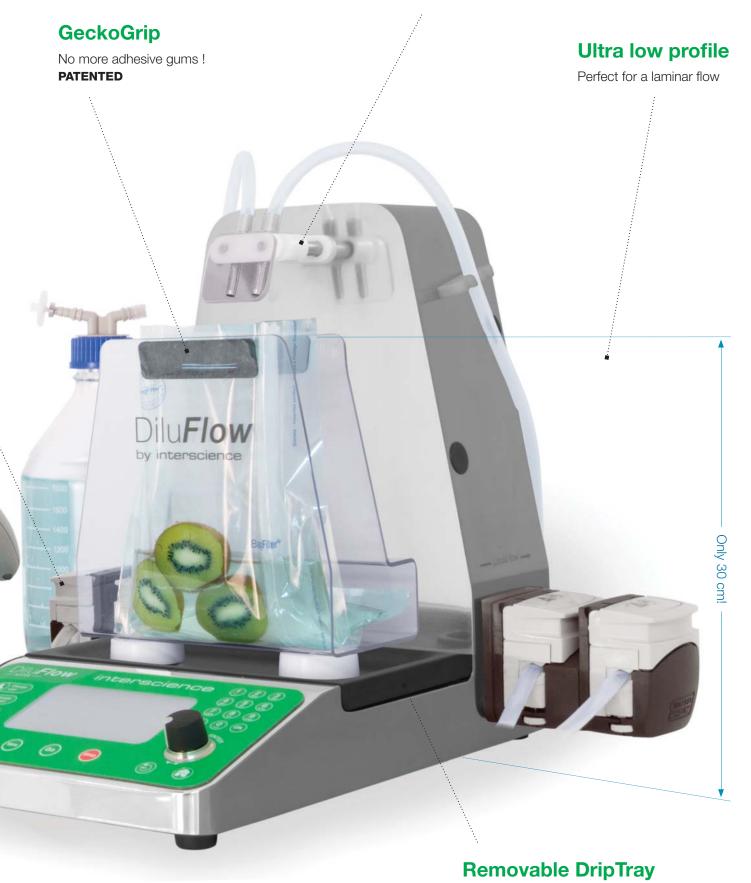


304L stainless steel casing

For easy cleaning

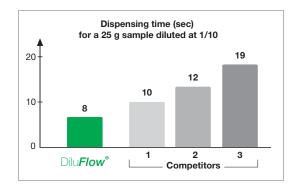
Robotic arm

To drop the sample easily⁽²⁾ Avoid contamination Save time



Easy to keep your Dilu**Flow®** clean **PATENTED**

Unique features



World's fastest dilutor:

With a single pump booster kit, the Dilu**Flow®** are the fastest diluters on the market. Only 8 s to dispense 225 mL!

Robotic arm

We added a robotic arm so you can drop the sample safely and easily while saving time.

The movement is simple and swift, and in case you had any doubts about its reliability, we tested it for more than 1 million cycles.





Ultralow Profile

The Dilu**Flow**® have the lowest bag opening on the market, less than 30 cm!

This allows a better comfort and ergonomics, especially when you use the DiluFlow in a biosafety cabinet.

GeckoGrip system

Inspired by a gecko's paw, the new GeckoGrip material will hold the bag without pressing hard, and will stick even on a wet surface.

This material can be washed with soap or alcohol, and will last for a long period of time.

PATENTED





LightCode

A soft and intuitive indicator of the status of the Dilu**Flow**[®]. You can check the accuracy of the dilution when it is finished (green 2 %, orange 5 % or red over 5 %). It will also turn blue if the balance is not stable, thus telling you to wait for stabilisation.



Accuracy < 2 %



Accuracy < 5 %



Accuracy > 5 %

Balance not stabilized

DripTray

In case culture media is spilt on the machine, the new patented **DripTray** can be removed to be rinsed, avoiding a tedious cleaning of the machine.









MultiDispensing

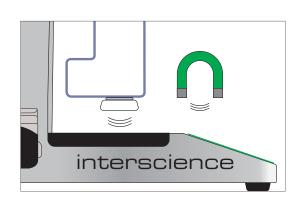
This unique patented mode allows you to serially dispense in small containers such as 9 mL tubes, without having to weigh each tube, by doing just one calibration on the balance.

PATENTED

Magnetic BagOpen®

The 2 points magnetic attachment of the **BagOpen®** allows a stable platform for better measuring accuracy, and also a natural protection of the weight sensor when removing the bag.

PATENTED SHAPE



Multiple ways to use a DiluFlow®

"... Just scan the barcode, the DiluFlow® selects the right program..."



I am using INTERSCIENCE's DiluFlow® Elite dilutor and am happy with it.

They enable us to process a good quantity of samples, more than 300 every morning, which leaves us enough time for the analyses in the afternoon. We have 3 dilution areas, each one with 2 lab blenders so we can work continuously.

The Dilu**Flow® Elite**, with its Booster option, can dilute samples in only 8 seconds.

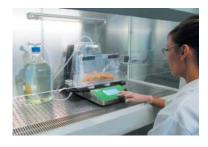
All our devices are connected bi-directionnally for traceability so that the user just has to scan a barcode for the dilutor to automatically choose the right program.

Altogether it is time-saving and helps avoid human errors.

Elsa, laboratory manager



"The lab operators liked the low profile of the DiluFlow® platform..."



New standards make it necessary to work under a laminar flow for the dilution work, which can create operational problems.

Our lab operators liked the ultra-low profile of the Dilu**Flow**® platform, because they do not need to bend themselves anymore to insert the sample in the bag.

We got rid of musculoskeletal disorders among the lab workers and everybody is very satisfied.

Moreover, some of our clients dealing with milk powders ask us for bigger and bigger samples in order to get more sensitivity in the pathogenes detection, up to 100 g; as much as 300 g in the case of sample pooling.

My Dilu**Flow**® can handle up to 5 000 g load if you add the Jumbo kit option, to dilute in large bags. It is useful because you do not need to buy an extra machine for large samples.

The DiluFlow $^{ ext{ iny B}}$ Elite, in the 1 kg version, has an accuracy of 0.01 g...



In the cosmetics industry, the raw materials cost a fortune, sometimes more than 10 000 euros per kilo! That is why we only work with small amounts, usually 1 g.

The difficult part is to manipulate and measure precisely these small samples.

The Dilu**Flow**® **Elite**, in 1 kg version, has an accuracy of 0.01 g, which enables us to get \pm 2 % weighing accuracy. Moreover we use tube holders, which are efficient pliers to hold our tubes, to directly place the tube under the liquid flow every time.

Dylan, laboratory manager



"... Accurate, user-friendly and reliable"



We analyze between 10 and 20 samples per day in our lab. Since last year we have been using 225 mL of ready-to-use diluent and that is why we had to pay extra attention to the weight of our sample.

We had a look at all dilutors on the market and most of them looked far too complex to use or too sophisticated. We just needed a 1/10th dilution with good accuracy.

We are now using a $Dilu Flow^{\otimes}$ which matches completely our requirements. The keyboard is really easy-to-use; only 2 keys to press for a dilution. In case there is an error or if the bag unhooks itself, we just rinse the driptray. In a few words I would say that $Dilu Flow^{\otimes}$ is accurate, user-friendly and reliable!

Dominique, quality control engineer

... 3-in-1 equipment...

What I really like about my Dilu**Flow® Elite** is the MultiDispensing function. I use it to fill my 9 mL dilution tubes.

Before that I was using a peristaltic pump but each time you had to calibrate the pump with a weighing platform to get \pm 2 % accuracy.

With the Dilu**Flow**® **Elite**, you just put the first tube on the platform and the calibration is automatic. You can then directly distribute in the tubes the doses with the HandyGun, without having to weigh each tube.

It is as if I had 3-in-1 equipment: a peristaltic pump, a weighing platform and a dilutor! Thanks to this function, I save time preparing my media, 9 mL tubes, 90 mL bottles, etc.



Hervé, user of DiluFlow® Elite

How to order



Dilu**Flow**®

Single pump (3 kg)

Double pump (3 kg)

Ref 501 103 Ref 501 203



Dilu*Flow*® Pro

Single pump (5 kg)

Double pump (5 kg)

Ref 502 105 Ref 502 205



Dilu*Flow*® Elite

Single pump (1 kg)

Double pump (1 kg)

Ref 503 101 Ref 503 201

Single pump (5 kg)

Double pump (5 kg)

Ref 503 105 Ref 503 205

Accessories



Printer

Prints all data (date, time, operator...)
Paper 521 110
labels 521 012

Ref 521 000



Foot pedal

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

Ref 507 008



Bar-code reader (1)

For total traceability of the samples.

Ref 522 000



Handy gun (1)

For high precision work and comfortable tube handling.

Ref 561 001



Booster kit

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

Ref 511 000



Pump module

External module with single pump + silicone tubings for pump head (inner Ø 6.4 mm).

Ref 505 007



JumboKit

BagOpen® 3500 + 3500 mL DripTray

Ref 505 006



5L bottle (GL45)

5 L autoclavable bottle

Ref 513 001



Independent stand for broth bags

To easily store diluent bags.

Ref 513 015



Integrable stand for broth bags

Integrated to the unit, to hold one broth bag

Ref 505 010



Trocar

316L stainless steel trocar for broth bags.

Ref 513 020



6 nozzles holder (1)

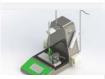
Can hold up to 6 nozzles

Ref 505 008



Adjustable distribution system (2)

Ideal to fill various containers Ref 505 004



Adjustable distribution system (3)

Ideal to fill various containers

Ref 505 005



Weighing platform

To weigh and support a container

Ref 505 002



Tongs platform

To hold a tube

Ref 505 003



GeckoGrip

Set of 10 adhesives for BagOpen®

Ref 505 009



PTFE filters 0.2 μ m (Ø 25 mm)

Set of 5 autoclavable filters for GI 45 bottles

Ref 513 023



Nozzle

Set of 5 stainless steel nozzles for tubings (inner Ø 4.8 to 8 mm)

Ref 513 024



Nozzle

Set of 5 stainless steel nozzles for tubings (inner Ø 1.6 to 3.2 mm)

Ref 513 040



Tube weight (Ø 6 mm)

Set of 5 tube weights

Ref 513 039

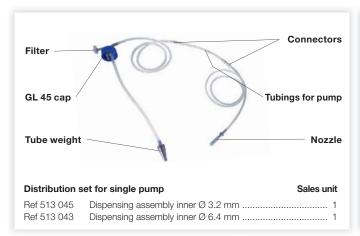


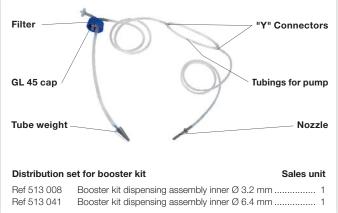
Certified standard weight (500 g)

500 g COFRAC calibrated weight, type F1

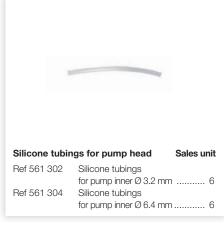
Ref 513 005

Tubings











Complementary products



BagMixer®

Lab blenders

Models (mL): 100/400/3500



BagFilter®
Sterile bag
with lateral filter

Models (mL): 400/3500



BagPage®

Sterile bag with full-page filter

Models (mL): 100/400/3500



BagLight®
Sterile plain bag

Models (mL): 100/400/3500



BagOpen®
Bag opener/holder

Models (mL): 80/100 - 400 - 3500



BagRack® Storage rack

Models (mL): 80/100 - 400 3500 (2 or 4 compartments)



BagClip®

Closing clips

Models (mL): 80/100 - 400 - 3500



BagPipet® & BagTips®

Fixed volume pipet & sterile tips

BagTips® Models: Regular - Jumbo



BagSeal®

Thermal sealing unit

Ref 261 000



PetriPile®

Petri dish storage rack

Models (ø): 55 - 65 - 90 - 150

Technical specifications

	Dilu <i>Flow</i> ® 3 kg Dilu <i>Flow</i> ® Pr		Pro 5 kg	Pro 5 kg Dilu Flow® Elite 5 kg		Dilu Flow® Elite 1 kg		
	Single pump	Double pump	Single pump	Double pump	Single pump	Double pump	Single pump	Double pump
Reference	501 103	501 203	502 105	502 205	503 105	503 205	503 101	503 201
BagOpen® height < 30 cm	,				,		,	
Patented DripTray				/	√		<u> </u>	
BagOpen® with GeckoGrip				/		/		/
Magnetic stand for BagOpen ®					,			/
LightCode: color status LED					,			
Compatible with Booster kit					,			/
304L stainless steel body				/		/		/
Stainless casting electromechanic core		/			,	/		/
Robotic arm		-		/	,	/		/
Compatible with JumboKit		-		/				
Protection for tubing nozzle		-		/		/		
Up to 6 pumps		-		_		/		/
Patented MultiDispensing mode		-		_		/		/
32 programs		_		_				/
Bidirectionnal connectivity		-	_					
Dilution 1 g at 1/10		-		-		-		/
Resolution up to 200 g				0.0)1 g			
Weighing range	3 000 g 5 0		00 g		1 000 g			
Weighing accuracy	0 to 100 g 100 to 3 00	0 to 100 g: ± 0,05 g 0 to 100 100 to 3 000 g: ± 0,1% 100 to 5 0		g: ± 0,05 g 00 g: ± 0,1%		0 to 20 g: ± 0,01 g 20 to 1 000 g: ± 0,1%		
Dilution factor			2 to 99		2 to 1000, editable fractions			
Dilution accuracy	> 98 %			> 99 %*				
Dilution time for a 25 g sample diluted at 1/10	< 9 s**		< 8 s**					
Dilution time for a 375 g sample diluted at 1/10		- < 80 s**		< 75 s**				
Dispensing time for 90 mL	< 7 s**		< 6 s**					
Dispensing time for 225 mL	< 10 s**		< 9 s**					
Max number of pumps	2 integrated		2 integrated + 4 external					
Dispensing/distribution mode				Fast - Standa	ard - Accurate			
Traceability Exported data	Printer / Export to Excel™ Sample volume / Total volume / Dilution factor / Dilution accuracy / Right or left pump			Printer / Export to Excel TM / CSV file export on USB key / LIMS Sample volume / Total volume / Dilution factor / Dilution accuracy / Diluent / Sample number / Diluent number / Date / Time / Time of last calibration / Name of operator / Name of program				
Connection	RS232 output for printer / USB output for computer / Jack output for foot pedal 2 USB outputs (type A) to connect a printer Handy gun / Etherne				ter / Jack output to connect a pedal /			
Weight	10.5 kg	13 kg	12.5 kg	15 kg	13 kg	15.5 kg	13 kg	15.5 kg
Dimensions (w x d x h)	31 x 41.5 x 40 cm	37 x 41.5 x 40 cm	31 x 41.5 x 37.5 cm	37 x 41.5 x 37.5 cm	31 x 41.5 x 37.5 cm	37 x 41.5 x 37.5 cm	31 x 41.5 x 37.5 cm	37 x 41.5 x 37.5 cr

Dilu*Flow®* is delivered with 1 dispensing arm, 1 DripTray 400, 1 or 2 pumps, 1 dispensing assembly (GL45 - Ø 6,4 mm) per pump, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.
Dilu*Flow®* Pro/Elite is delivered with 1 or 2 pumps, 1 DripTray 400, 1 protecting cap for nozzles, 1 dispensing assembly (GL45 - Ø 6,4 mm (Elite 1 kg: Ø 3,2 mm)) per pump, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.

*in standard or accurate mode **with booster kit in fast mode

Certified production:

ISO 7218 - ISO 6887-1 - BAM (Bacteriological Analytical manual)











Dist		

In compliance with

1 year guarantee

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