

interscience



Our quality for your lab

- Full range of products for microbiological analyses
- Leadership for innovative products
- Worldwide distribution network
- Designed and Made in France







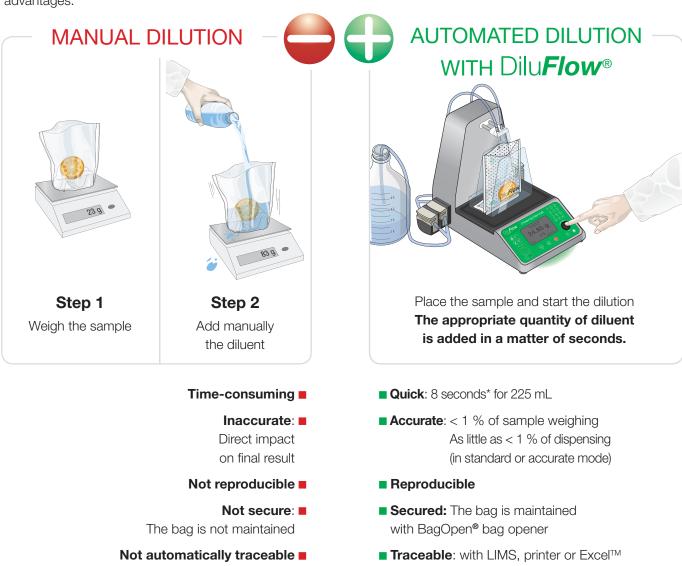
BagSytem®

for the best 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:



* Dilution time for a 25 g sample diluted at 1/10 on a DiluFlow® Elite with booster kit in fast mode

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	-	✓	√ (3)
Programmable	-	-	✓
Full traceability	-	-	✓
Up to 6 pumps	-	-	✓
Multi-Dispensing	-	-	✓

Superior quality

Watson Marlow™ pumps



Printer, USB stick⁽¹⁾,Excel[™], Open Office[™], CSV, LIMS⁽¹⁾





Up to 6 diluents

With 4 extra connectable pumps(1)

IN COMPLIANCE WITH







304 L stainless steel casing

For easy cleaning and long-lasting

Robotic arm⁽²⁾

Easy sample dropping Avoids contamination Saves time

GeckoGrip

No more adhesive gums!
Ultra adhesive, hygienic and long lasting

PATENTED

Ultra low profile

Perfect for a laminar flow Ergonomic: For no musculoskeletal disorders

Dilu**Flow**by interscience

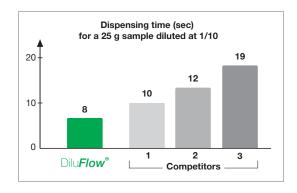
High accuracy weighing scale

Weighing accuracy up to 99 %

Removable DripTray

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

Unique features



World's fastest dilutor:

With a booster kit, the Dilu**Flow**® are the fastest diluters on the market. Only 8 $s^{(3)}$ to dispense 225 mL!

Robotic arm⁽²⁾

We added a robotic armso 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.



Laminar flow A < 30 cm! interscience

Ultra low 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, this new GeckoGrip material will holds the bag without pressing hard. GeckoGrip sticking properties apply in dry and wet surfaces.

GeckoGrip long lasting material can be washed with soap and alcohol.

PATENTED





LightCode

An intuitive indicator of the status of the Dilu*Flow*®. The degree of accuracy of the finished dilution is displayed: green > 98 %, orange > 95 % or red < 95 %. It will also turn blue if the balance is not stable, thus telling you to wait for stabilisation.



Green:

Accuracy > 98 %



Orange: Accuracy > 95 %



Accuracy < 95 %



Balance not stabilized

DripTray

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









Multi-Dispensing⁽¹⁾

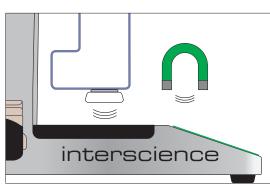
This unique patented mode allows you to serially dispense in small containers such as 9 mL tubes, without having to weigh each tube, by doing just one calibration on the balance.

PATENTED

Magnetic BagOpen®

The 2 points magnetic attachment of the BagOpen® guarantee a stable platform for better measuring accuracy, and provide 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 55



I am using INTERSCIENCE's Dilu**Flow® Elite** dilutor and I am happy with it.

It enables 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, dilutes samples in only 8 seconds.

All our devices are connected bidirectionally for traceability, so that the operator just scans a bar-code and the dilutor automatically chooses the right program, the right pump...

It is truly time-saving and it avoids common human errors.

Philippe, laboratory manager



The lab operators liked the low profile of the DiluFlow® platform 55



New standards make it necessary to work under a laminar flow for the dilution work, and this 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.

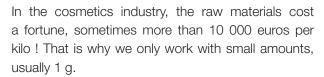
Moreover, some of our clients dealing with milk powders ask us for bigger and bigger samples in order to get more sensitivity in the pathogens detection, up to 100 g; and as much as 300 g in the case of sample pooling.

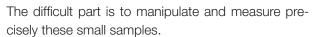
My Dilu**Flow**® can handle up to 5 000 g load if you add the Jumbo kit option, to dilute in large bags. It is useful because you do not need to buy an extra machine for large samples.

Brigitte, in charge of laboratory operations

GG The DiluFlow® Elite, in the 1 kg version,

has an accuracy of 0.01 g $_{55}$



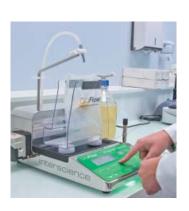




The Dilu**Flow**® **Elite**, in 1 kg version, has an accuracy of 0.01 g, which enables us to get \pm 2 % weighing accuracy. Moreover we use tube holders, which are efficient pliers to hold our tubes, to directly place the tube under the liquid flow every time.

Dylan, laboratory manager

GG Accurate, user-friendly and reliable 55



DiluFlow

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

We looked 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**® which matches our requirements completely. 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**® is accurate, user-friendly and reliable!

Dominique, quality control engineer

66 3-in-1 equipment 55

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

Before that, I was using a peristaltic pump, but each time, I had to calibrate the pump with a weighing platform to get ± 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 the doses in the tubes 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 in tubes, 90 or 225 mL in bottles, 18 mL in Petri dishes, etc.

Hervé, user of DiluFlow® Elite

How to order



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) Ref 503 101 Double pump (1 kg) Ref 503 201

Ref 503 105 Single pump (5 kg) Double pump (5 kg) Ref 503 205

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, USB cable, monitoring software, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.

Dilu*Flow*® Pro is delivered with 1 or 2 pumps, 1 DripTray 400, 1 protection for tubing nozzle, 1 dispensing assembly (GL45 - Ø 6,4 mm) per pump, USB cable, monitoring software, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.

Dilu*Flow*® Eitel is delivered with 1 or 2 pumps, 1 DripTray 400, 1 protection for tubing nozzle, 1 dispensing assembly (GL45 - Ø 6,4 mm (Elite 1 kg: Ø 3,2 mm)) per pump, USB stick, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.

Accessories



Printer

Prints all data Paper 521 110 Labels 521 012 Film 410 130

Ref 410 150



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 s.

Ref 511 000



Pump module (1)

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

Ref 505 007



Jumbo kit (2)

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

316 L stainless steel trocar for broth bags.

Ref 513 020



6 nozzles holder (1)

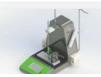
Can hold up to 6 nozzles

Ref 505 008



Adjustable distribution system (3)

Ideal to fill various containers Ref 505 004



Adjustable distribution system (4)

Ideal to fill various containers

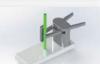
Ref 505 005



Weighing platform

To weigh and support a container

Ref 505 002



Tongs platform

To hold a tube (Ø 10 to 60 mm)

Ref 505 003



GeckoGrip

Set of 10 adhesives for BagOpen®

Ref 505 009



PTFE filters 0.2 µm (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



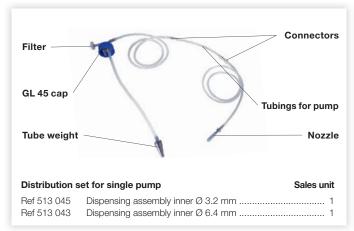
Certified standard weight (500 g)

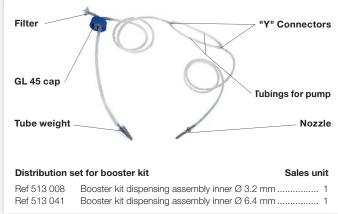
500 a COFRAC calibrated weight, type F1

Ref 513 005

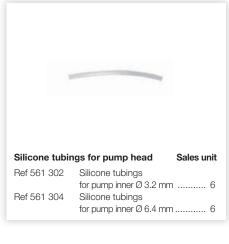
(1) Only on Dilu**Flow® Elite** (2) Only on Dilu**Flow®** Pro and Dilu**Flow®** Elite 5 kg (3) Only on Dilu**Flow®** (4) Only on Dilu**Flow®** ro and Dilu**Flow®** Elite

Tubings











Complementary products











BagMixer® Lab blenders

Models (mL): 100/400/3500 Sterile bag with lateral filter

Models (mL): 400/3500

Sterile bag with full-page filter

Models (mL): 100/400/3500

BagLight® Sterile plain bag

Models (mL): 100/400/3500





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 (19 cm) Jumbo (24 cm)



BagSeal®

Thermal sealing unit

For bags up to 400 mL



PetriPile® Petri dish storage rack

Models (ø): 55 - 65 - 90 - 150 mm

Technical specifications

	Dilu Flow® 3 kg		Dilu Flow® 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 removable DripTray		/	<i>J</i>		√		1	
BagOpen® with GeckoGrip		/	./		√		J	
Magnetic stand for BagOpen® (patented shape)		······································	✓		✓		√	
LightCode: color status LED	_	/	√		√		J	
Compatible with Booster kit	`	7	V		<u> </u>		Y	
	`		Y		Y		V	
304 L stainless steel body	`	/	✓		V		√	
Stainless casting electromechanical core	,	/	`	/	✓		✓	
Robotic arm		-	,	/	✓		✓	
Compatible with Jumbo kit		-		/	,	/	-	
Protection for tubing nozzle		-	✓		✓		✓	
Up to 6 pumps		-	-		✓		✓	
Patented Multi-Dispensing mode		-				/	√	
32 editable programs		-	=		√		J	
Bidirectional connectivity		-	-		<i>J</i>		J	
Dilution 1 g at 1/10		-	-		- -		✓	
Resolution up to 200 g				0.0)1 g			
Weighing range	30	00 g	5 00		00 g		1 000 g	
Weighing accuracy	0 to 100 g 100 to 3 00	g: ± 0,05 g 00 g: ± 0,1%	0 to 100 100 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			o 1/99 2 to 1000, editable fractions					
Dilution accuracy	> 9	8 %	> 99 %*					
Dilution time for a 25 g sample diluted at 1/10		< 9	< 8 s**		3 s**			
Dilution time for a 375 g sample diluted at 1/10		-	< 8	0 s**	< 75 s**		-	
Distribution time for 90 mL			.7 s** < 6 s**					
Distribution time for 225 mL		< 10 s**			<9 s**			
Max number of pumps Dilution/distribution mode	2 integrated 2 integrated + 4 external Fast - Standard - Accurate							
	Printer / Monitoring software (data export to Excel™ Printer / Monitoring software (data export to Excel™ Printer / Monitoring software (data export to Excel™				atiols / LIMP			
Traceability	Open Office™, CSV file, 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			Sample weight / Total weight / Dilution factor / Dilution accuracy / Diluent / Sample number / Diluent batch number / Date / Time / Last calibration date / 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 printer, 1 USB port (type B) to connect a computer Handy gun / Ethernet			er / Jack output to connect a food pedal /				
Language		Enç	glish		English		, French	
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 37.5 cm		37 x 41.5 x 37.5 cm
Patents	GeckoGrip system, Removable DripTray, Multi-Dispensing, Magnetic BagOpen® (patented shape)							
In compliance with			ISO 7218 - IS	O 6887-1 - FDA BAM		lytical manual)		
Guarantee	1 year							

^{*} with booster kit in standard or accurate mode **with booster kit in fast mode

Certified production:











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		ou	LOI

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