

VWR[®] gravimetric dilutors

01. QUICK

03. REPRODUCIBLE

05. TRACEABLE

02. ACCURATE

04. SECURED



Introduction

For secure sample preparation in the microbiology workflow

Designed to increase your laboratory's productivity ensuring accurate dilutions in a secure way.

Microbiological analyses are becoming increasingly demanding: sample-taking, diluting and blending are essential factors ensuring the quality and reproducibility of the results.

The VWR® Gravimetric Dilutor range will answer your needs.

Easy-to-use, with a removable drip tray to make cleaning easy, it is an accurate device in compliance with the latest international standards: ISO 7218, ISO 6887-1, FDA-BAM.

The VWR® Gravimetric Dilutor has been designed to facilitate work in a microbiological safety cabinet: it has the lowest height of any dilutor on the market.

Thanks to its 3-position adjustable arm and its robotic arm, the VWR® Gravimetric Dilutor enables you to have free space to manipulate the samples above the bag holder.





VWR® GRAVIMETRIC DILUTORS

The VWR® Gravimetric Dilutors are used for the dilution of the sample before its microbiological analysis.

They are all stainless steel with an innovative design, and ultra-low profile for easy use under laminar flow. Compliant with ISO 7218, ISO 6887-1 and FDA BAM standards.

Quick:	Dilution time for a 25 g sample diluted at 1/10 in less than 9 seconds
Accurate:	< 1 % of sample weighing
	As little as < 1 % of dispensing (in standard or accurate mode)
Reproducible Secured:	The bag is maintained with bag holder
Traceable:	– data export to a printer – USB connection to computer and data export via the software – Excel™ file export from the software



Standard delivery:

- 1 or 2 pumps
- 1 dispensing arm
- 1 drip tray 400
- 1 dispensing assembly (GL45 - Ø 6,4mm) per pump
- USB cable
- monitoring software
- power cord
- 1 bag holder for dilutors
- 10 adhesives, free sample bags.
- extra delivery for the 5 kg models
- 1 protection for tubing nozzles

VWR® Gravimetric dilutor



1 Adhesives

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

2 Superior quality pumps

Watson Marlow™

3 Removable drip tray

Easy to keep your VWR® Gravimetric dilutor clean PATENTED

4 For easy cleaning and long-lasting

304 L stainless steel casing

5 Robotic arm

for 5 kg model Easy sample dropping Avoids contamination Saves time

6 Ultra-low profile:

only 30 cm! Perfect for a laminar flow Ergonomic

7 High accuracy weighing scale

Weighing accuracy up to 99 %

8 Light Code

An intuitive indicator of the status of the VWR® Gravimetric Dilutor. 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.

MODELS

Description	Capacity		Cat. No
VWR® Gravimetric dilutor	3 kg	1 pump	710-2091
VWR® Gravimetric dilutor	3 kg	2 pumps	710-2092
VWR® Gravimetric dilutor	5 kg	1 pump	710-2122
VWR® Gravimetric dilutor	5 kg	2 pumps	710-2123

TECHNICAL SPECIFICATIONS

	Gravimetric dilutor 3kg	Gravimetric dilutor 3kg	Gravimetric dilutor 5 kg	Gravimetric dilutor 5 kg
	1 pump	2 pumps	1 pump	2 pumps
Bag holder height	< 30 cm			
- Patented removable drip tray	Yes			
- Bag holder with adhesives, patented	yes			
- Magnetic stand for Bag holder, patented shape	yes			
- Light Code:	color status LED			
- Compatible with booster kit	Yes			
- 304L stainless steel body	yes			
- Stainless casting electromechanical core	Yes			
Robotic arm	no		Yes	
Compatible with Jumbo kit	no		Yes	
Protection with tubing nozzle	No		Yes	
- Resolution	up to 200 g: 0.01 g			
- Weighing range:	3000 g		5000g	
- Weighing accuracy:	0 to 100 g: ± 0.05 g			
- Weighing accuracy:	100 to 3000 g: ± 0.1 %		100 to 5000 g: ± 0.1 %	
- Dilution factor:	1/2 to 1/99			
- Dilution accuracy	> 99% with booster kit in standard or accurate mode			
- Dilution time for a 25 g sample diluted at 1/10	< 9 s (with booster kit in fast mode)			
Dilution time for a 375 g sample diluted at 1/10	-		< 80 s (with booster kit in fast mode)	
- Dispensing time for 90 mL:	< 7 s (with booster kit in fast mode)			
- Dispensing time for 225 mL:	< 10 s (with booster kit in fast mode)			
- Max number of integrated pumps:	1	2	1	2
- Dispensing/distribution mode:	Fast - Standard - Accurate			
- Traceability:	Printer / Monitoring software (data export to: Excel™ / 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			
- Connection:	RS232 output for printer / USB output for computer / Jack output for foot pedal			
- Stainless steel	yes			
- Power:	100-240V~ 50-60Hz			
- Weight:	10,5 kg	13 kg	12,5 kg	15 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
- In compliance with	ISO 7218, ISO 6887-1 and FDA BAM (Bacteriological Analytical Manual) standards			
- Warranty	2 years			
- Designed and made in France				
- Manufactured under:	ISO 9001 V2008, CE, WEEE 2002/96/EC, RoHS 2002/95/EC			



710-2118



710-2121



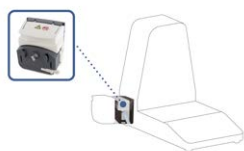
710-2120



710-2119



710-2093



710-2094



710-2125



215-0057



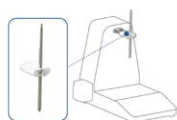
710-2109



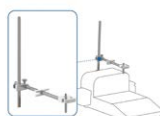
710-2108



710-2111



710-2124



710-2110



710-2106



710-2107



710-2117



710-2099



710-2112



710-2113



710-2114



611-8248

ACCESSORIES

	3kg models	5kg models	Cat. No.
Printer	X	X	710-2118
Printer paper	X	X	710-2121
Printer labels	X	X	710-2120
Film for printer	X	X	710-2119
Foot pedal	X	X	710-2093
Booster kit	X	X	710-2094
Jumbo kit: (Incl. Bag holder 3500 + 3500 mL drip tray + 2 sets of adhesive gums + 1 protection cover)	-	x	710-2125
5L bottle (GL 45)	X	X	215-0057
Independent stand for broth bags	X	X	710-2109
Integrable stand for broth bags	X	X	710-2108
Trocar	X	X	710-2111
Adjustable distribution system for VWR® Gravimetric Dilutor (Incl. nozzle holder + 4 mm, inner Ø (L: 23.5 cm) + 5 mm inner Ø (L: 12 cm) + Allen wrench + screw)	-	X	710-2124
Adjustable distribution system	X	-	710-2110
Weighing platform	X	X	710-2106
Tongs platform	X	X	710-2107
Adhesives set of 10	X	X	710-2117
PTFE filters 0.2 µm (Ø 25 mm)	X	x	710-2099
Set of 5 nozzles for tubings (inner Ø 4.8 to 8 mm)	X	X	710-2112
Set of 5 nozzles for tubings (inner Ø 1.6 to 3.2 mm)	X	X	710-2113
Set of 5 tube weights (Ø 6 mm)	X	X	710-2114
Certified standard weight (500 g)	X	x	611-8248



710-2101



710-2095



710-2103



710-2097



710-2102



710-2096



710-2104



710-2098



710-2105



710-2100

TUBINGS

	Cat. No.
Dispensing assembly for single pump: inner Ø 3.2 mm (x1)	710-2101
Dispensing assembly for single pump: inner Ø 6.4 mm (x1)	710-2095
Dispensing assembly for booster kit: inner Ø 3.2 mm (x1)	710-2103
Dispensing assembly for booster kit: inner Ø 6.4 mm (x1)	710-2097
Silicone tubings for single pump: inner Ø 3.2 mm (x5)	710-2102
Silicone tubings for single pump: inner Ø 6.4 mm (x5)	710-2096
Silicone tubings for booster kit: inner Ø 3.2 mm (x5)	710-2104
Silicone tubings for booster kit: inner Ø 6.4 mm (x5)	710-2098
Silicone tubings for pump head: inner Ø 3.2 mm (x6)	710-2105
Silicone tubings for pump head: inner Ø 6.4 mm (x6)	710-2100

VWR® Complementary products for sample preparation in the Microbiology workflow



VWR® MEDIA PUMP

A peristaltic pump with enhanced accuracy for the dispensing of culture media, agar and any type of diluent from 50 µL à 99 L. Compact and ergonomic, it comes with a user-friendly interface.

Description	Cat. No.
VWR® Media Pump VWR. Single pump head	710-2126



VWR® STAR BLENDER 400 SILENT

The next generation of lab blender: silent, easy-to-use and robust.

With great new features, along with the silent blending, it is adapted to all kinds of applications and with a guarantee of optimal bacterial extraction, it is a great tool for lab analyses avoiding all risks of cross-contamination.

Description	Cat. No.
VWR® Star Blender 400 Silent	710-2143



VWR® LABORATORY BLENDER, LB 400

Compact and easy to use blender, for sample volumes of 50 to 400 ml, efficiently blends solid or liquid samples in any sterile bags (plain or filter bags).

Description	Cat. No.
LB 400 lab blender	710-0632
LB 400 W lab blender with glass window in the door	710-09222



VWR® LABORATORY BLENDER, STAR-BLENDER® DIGITAL

Polished AISI 304 stainless steel external and internal surfaces, with window in front door for observation of bagged samples during homogenization

Description	Cat. No.
Star-Blender® Digital, EU-plug	710-0958
Star-Blender® Digital, UK-plug	710-1045



AUTOMATIC STRAW PIPETTE, FIXED VOLUME, SP100

Air displacement pipette with two pre-calibrated steps allows subsequent pipetting of 1 and 0,1 ml of the same liquid. Ideal alternative to graduated glass pipettes when performing serial 1:10 dilutions in bacteriology.

Description	Capacity	Accuracy	Imprecision	Pk	Cat. No.
Automatic straw pipette SP100 for 1:10 dilutions, autoclavable	0,1 / 1 ml	±2,0 / ±0,5 %	<2,5 / <0,4 %	1	710-1021
Straw pipettes	1 ml		25 per bag	1	612-1675
Nozzle protection filter, PE				100	613-5041

Blender bags



VWR® BLENDER BAGS

Wide choice of PE sterile bags from 80 to 3500 ml capacity. Fit all conventional lab blenders, adapted to all samples.

Description	Capacity	W×L	Packed	Pk	Cat. No.
Plain bags	80 ml	105×150 mm	60 bags of 25	1.500	129-0732
Plain bags	400 ml	300×190 mm	10 bags of 50	500	129-0729
Plain bags	400 ml	300×190 mm	20 bags of 25	500	129-0728
Plain bags	3500 ml	380×510 mm	20 bags of 25	500	129-0731
Bags with lateral filter	400 ml	300×190 mm	10 bags of 50	500	129-0733
Bags with lateral filter	400 ml	300×190 mm	60 bags of 25	1.500	129-0730
Bags with full page filter	400 ml	300×190 mm	10 bags of 50	500	129-0734

VWR® HIGH PERFORMANCE BLENDER BAGS

Complete range of bags, sterile and alimentary certified, for safe and quick preparation of solid samples before microbiological and chemical analysis. Bags are resistant for 3 minutes blending (frequency 4 t/second). They fit to all conventional 400 ml lab blenders and are adapted to all samples.

Description	Capacity	W×L	Packed	Pk	Cat. No.
Plain bags	400 ml	175×300 mm	20 bags of 25	500	129-1102
Plain bags	400 ml	175×300 mm	10 bags of 50	500	129-1103
Bags with lateral non-woven filter	400 ml	190×300 mm	20 bags of 25	500	129-1104
Bags with lateral non-woven filter	400 ml	190×300 mm	10 bags of 50	500	129-1105
Bags with full page micro perforated filter	400 ml	190×300 mm	10 bags of 50	500	129-1106

Installation and after sales service

Contact our local technical sales support for IQ/OQ installation or services.

vwr.com/services



Setting science in motion to create a better world



AUSTRIA

VWR International GmbH
Graumannsgasse 7
1150 Wien
Tel.: +43 1 97 002 0
info.at@vwr.com

BELGIUM

VWR International bv
Researchpark Haasrode 2020
Geldenaaksebaan 464
3001 Leuven
Tel.: +32 (0) 16 385 011
vwr.be@vwr.com

CZECH REPUBLIC

VWR International s. r. o.
Veetee Business Park
Pražská 442
CZ - 281 67 Stříbrná Skalice
Tel.: +420 321 570 321
info.cz@vwr.com

DENMARK

VWR International A/S
Tobaksvejen 21
2860 Søborg
Tel.: +45 43 86 87 88
info.dk@vwr.com

FINLAND

VWR International Oy
Valimotie 9
00380 Helsinki
Tel.: +358 (0) 9 80 45 51
info.fi@vwr.com

FRANCE

VWR International S.A.S.
Le Périgares – Bâtiment B
201, rue Carnot
94126 Fontenay-sous-Bois cedex
Tel.: 0 825 02 30 30* (national)
Tel.: +33 (0) 1 45 14 85 00
(international)
info.fr@vwr.com
* 0,18 € TTC/min + prix appel

GERMANY

VWR International GmbH
Hilpertstraße 20a
D - 64295 Darmstadt
Tel.: 0800 702 00 07* (national)
Tel.: +49 (0) 6151 3972 0 (international)
info.de@vwr.com
*Freecall

HUNGARY

VWR International Kft.
Simon László u. 4.
4034 Debrecen
Tel.: +36 52 521130
info.hu@vwr.com

IRELAND

VWR International Ltd
Orion Business Campus
Northwest Business Park
Ballycoolin
Dublin 15
Tel.: +353 (0) 1 88 22 222
sales.ie@vwr.com

ITALY

VWR International S.r.l.
Via San Giusto 85
20153 Milano (MI)
Tel.: +39 02 3320311
info.it@vwr.com

THE NETHERLANDS

VWR International B.V.
Postbus 8198
1005 AD Amsterdam
Tel.: +31 (0) 20 4808 400
info.nl@vwr.com

NORWAY

VWR International AS
Brynsalleen 4,
0667 Oslo
Tel.: +47 22 90 00 00
info.no@vwr.com

POLAND

VWR International Sp. z o.o.
Limbowa 5
80-175 Gdansk
Tel.: +48 58 32 38 200
info.pl@vwr.com

PORTUGAL

VWR International - Material de
Laboratório, Lda
Centro Empresarial de Alfragide
Rua da Indústria, nº 6
2610-088 Amadora
Tel.: +351 21 3600 770
info.pt@vwr.com

SPAIN

VWR International Eurolab S.L.U.
C/ Tecnología 5-17
A-7 Llinars Park
08450 - Llinars del Vallès
Barcelona
Tel.: +34 902 222 897
info.es@vwr.com

SWEDEN

VWR International AB
Fagerstagatan 18a
163 94 Stockholm
Tel.: +46 (0) 8 621 34 00
kundservice.se@vwr.com

SWITZERLAND

VWR International GmbH
Lerzenstrasse 16/18
8953 Dietikon
Tel.: +41 (0) 44 745 13 13
info.ch@vwr.com

UK

VWR International Ltd
Customer Service Centre
Hunter Boulevard - Magna Park
Lutterworth
Leicestershire
LE17 4XN
Tel.: +44 (0) 800 22 33 44
uksales@vwr.com

GO TO **VWR.COM** FOR THE LATEST NEWS, SPECIAL OFFERS AND DETAILS FROM YOUR LOCAL VWR SUPPORT TEAM