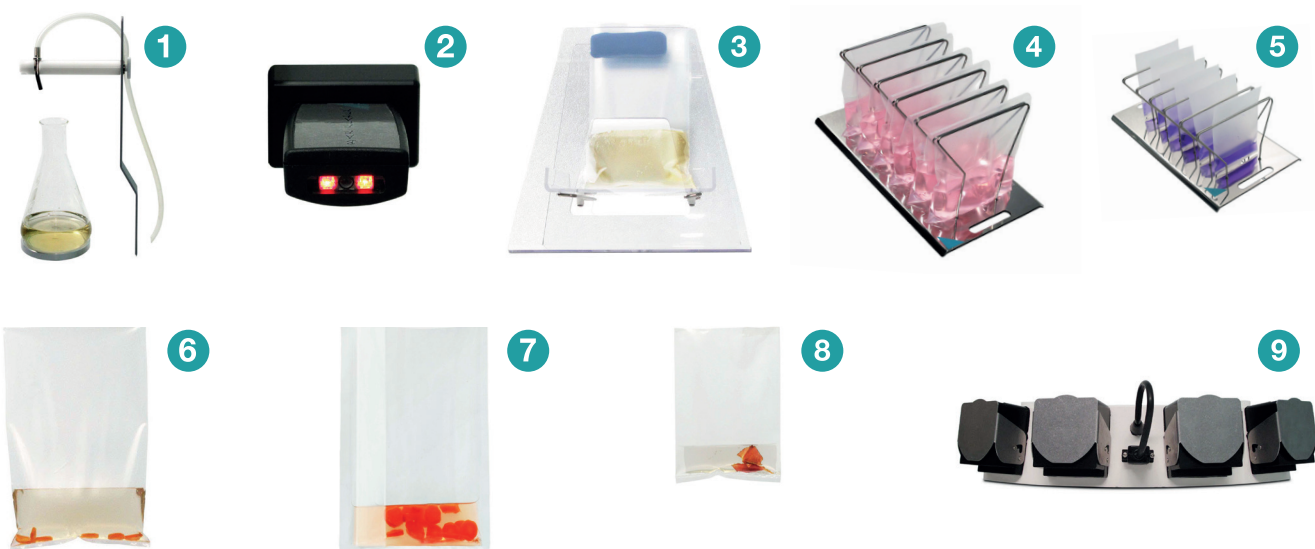


Accessories and Disposables



1. Weighing platform and multilevel dilution arm for beakers/flasks
CAT.90002838
CAT.90002806

2. Barcode reader and barcode support
CAT.90005701
CAT.90002836

3. Weighing bag holder for 80 ml. bags
CAT.90002885

4. Portabag: Stainless steel holder for six 400 ml bags
CAT.90002300
5. Portabag: Stainless steel holder for six 80 ml. bags
CAT.90002380

6. 400 ml.Y-irradiated homogenizer bags
a. 500 bags (packed in 10 bag packs)
CAT.900014010
b. 5000 bags (packed in 10 bag packs)
CAT.90001428
c. 500 bags (packed in 50 bag packs)
CAT.900014050
d. 5000 bags (packed in 50 bag packs)
CAT.90005421
7. 400 ml.Y-irradiated homogenizer bags with filter
a. 500 filter bags (packed in 25 bag packs)
CAT.900014501
b. 2000 filter bags (packed in 25 bag packs)
CAT.90002451
c. 5000 filter bags (packed in 25 bag packs)
CAT.90002452

8. 80 ml.Y-irradiated homogenizer bags
a.1500 bags (packed in 50 bag packs)
CAT.90002456
b. 4500 bags (packed in 50 bag packs)
CAT.90002457

9. Four pumps device
CAT. 90002798

Technical Data

Weight range: 2400g (tare included)
Display Resolution: 0.1g
Weight inaccuracy: <1% (for weight ≥ 100g)
Calibration weight: 100g to 2000g users configurable (100g steps)
Delivery speed: 950ml(min (tube diameter:5mm).
Sample weight resolution: 0.01g (after stabilization)
Dilution inaccuracy: <1% (for dilution weight ≥ 100g) / <2% (for dilution weight ≥50g)
Dispensing inaccuracy: <1% (for dispensing weight ≥ 100g) / <2% (for dispensing weight ≥50g)
Dispensing range: 20g to full weighting range
Selectable surface vibration compensation levels: 0-4
Mains: 100~240ACV 50/60 Hz
Power: 40W
Dimensions (WxHxD): 300x265x325 mm
Weight: 6.5Kg
Printer connection: Serial RS232
Printer records include: Date, Time, Operator ID, Sample ID, Sample Weight, Dilution Factor, Diluent ID, Total Weight, Final Accuracy, Last Calibration Date
IUL Barcode reader connection

For more information please visit us at:
www.iul-inst.com



smartdilutor **W**

Accurate, Traceable, Productive
Gravimetric diluter



Doc. No. 50007667-03

Introduction



Initial sample dilution is a key step in the workflow of any microbiology lab.

Precise gravimetric diluting is eased by the Smart Dilutor W which automates this process providing a fast and reliable approach to it. Its accurate weight cell and powerful peristaltic pumping combine to streamline this process. Furthermore, it can be used to dispense set volumes.

A sample is initially inserted in a homogenizer bag, next, sample weight is measured with the device's load cell. Last, the device dilutes the sample according to a preset dilution factor. The device also allows to perform accurate liquid dispensing.

smartdilutor^W's key traits

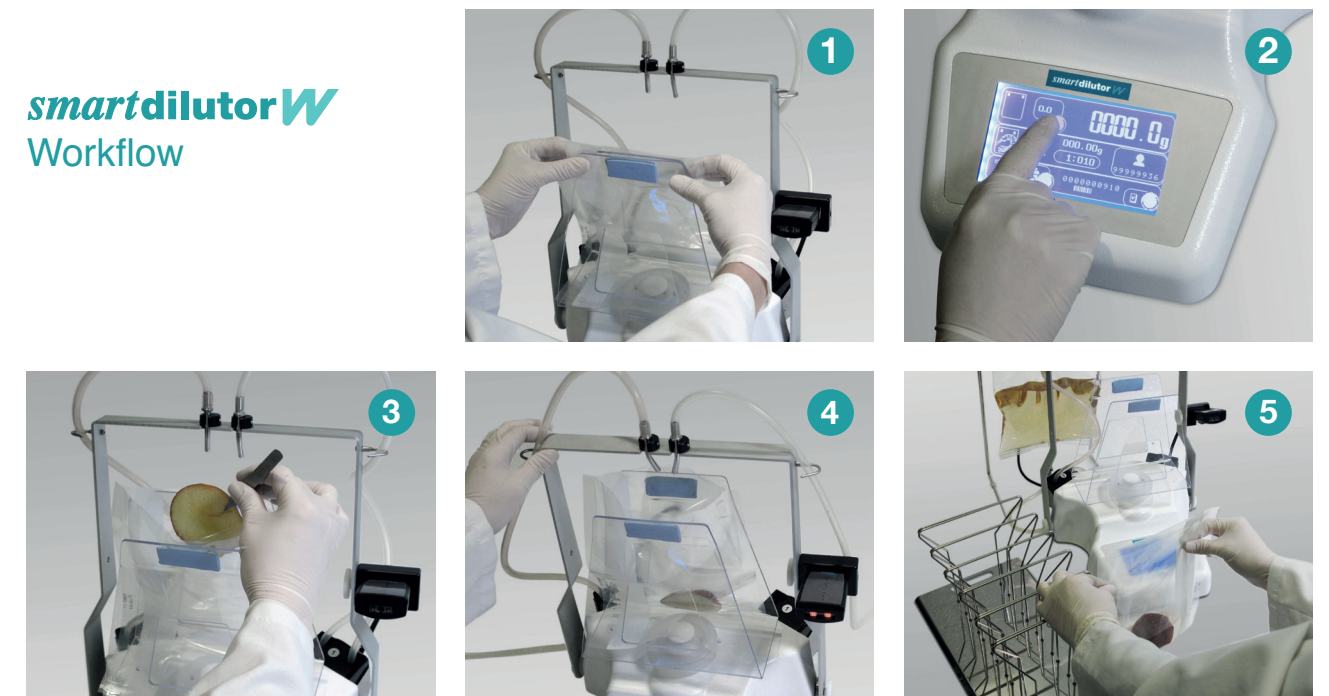
Smart Dilutor W has been designed to cover all the needs of today's microbiology labs through several key traits:

- Provides sample processing **traceability**:
 - Operator ID
 - Sample ID
 - Dilution ID
- **Simple control** from a touch panel.
- Tubing and parts that contact the diluent can be **quickly disassembled to sterilize them in an autoclave**.
- The device can be connected to:
 - **A printer** (RS-232 DB9 port): that can print records of the dilutions performed.
 - **A barcode reader**: that enables identification of the diluted samples.
 - An external computer (Ethernet): allowing for **connection to a LIMS**.
- Diluent can be pumped from:
 - **Media containing bottles**
 - **Ready to use media bags**
- Can perform accurate liquid **dispensing** when using the dispensing mode.
- Upscalable:
 - Main **1 or 2 pump unit**
 - Optional **4 pump accessory**

Microbiology
Lab Automation



smartdilutor^W Workflow



1. A sterile homogenizer bag is placed in the homogenizer bag holder (which serves as a weighing platform).
2. The weight tare is performed.
3. The sample is placed inside the bag.
4. The instrument will then automatically deliver diluent into the bag until a previously preset dilution factor is reached. Dilution factors can be set through any given rational number fraction: numerator (two digits)/ denominator fraction (three digits).
5. A precisely diluted sample is ready for further processing