



*smart*dilutor **W**

Accurate, Traceable, Productive
Gravimetric diluter



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.

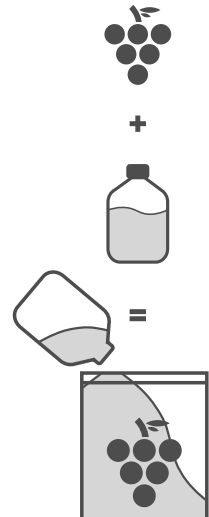
A sample is initially inserted in a homogenizer bag, next, sample weight is measured with the device's load cell. Last, the device dilutes the sample according to a preset dilution factor. The device also allows to perform accurate liquid dispensing.

*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**

DILUTION



One pump
CAT.90007900

Two pumps
CAT.90007901



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

Accessories and Disposables



1



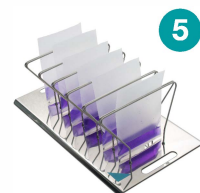
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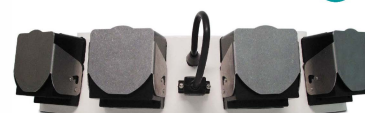
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7



8



9

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: 2400 g. (tare included).
Maximum sample weight: compatible with factor, tare and weight range.
Weight resolution SAMPLE: 0.01 g.
Weight resolution DILUTION: 0.1 g.
Delivery speed: 950 ml/min (tube diameter: 5mm).
Sample weight accuracy (for sample weights > 5g): > 99%
Dilution accuracy: > 99%
Dispensing accuracy: > 99%
Selectable surface vibration compensation levels: 0 - 4.
Mains: 85~264 ACV 50/60 Hz.
Power: 40 w.
Dimensions: (WxHxD): 300x365x325 mm.
Weight: 6.5 Kg.
Printer connection: Serial RS232 DB 9.
Printed records include: Date, Time, Operator ID, Sample ID, Sample Weight, Dilution Factor, Diluent ID, Total Weight, Final Accuracy, Last Calibration Date.
Connection to computer for LIMS integration: Ethernet
IUL Barcode reader connection.
Calibration interval (two points): 0 and 100 to 2000 g.

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