

# Dissolution Media Degasser

**ELECTROLAB**  
Your Quality, Our Assurance

**Patented**



# 21 Litre Mobile Media Degasser

## QbD Quality by Design

- Deaeration, preheating and precise dispensing of dissolution media
- Volumetric dispensing with any accuracy of  $\pm 1\%$  as per USP and Ph. Eur. specifications
- Mobile unit allows dispensing media in the test vessel within the dissolution bath
- Multifunction single hose for aspiration, dispensing, cleaning, rinsing and drainage
- Ergonomically designed nozzle with embedded dispense switch for ease of operation
- User friendly calibration and validation of media volume
- Printout of report of calibration, validation and dispense cycles
- Batch wise dispensing of last 10 batches of media
- Special nozzle design allows deaeration of surfactants like Sodium Lauryl Sulphate (SLS)
- Programmable deaeration time and temperature for effective deaeration of different media
- Maintains media under vacuum at desired temperature while in idle condition
- Automatic rinsing and cleaning cycle and also easy access for manual cleaning
- Programmable dispense volumes from 200 ml to 4 L
- Dispensing rate 900 ml/min
- Alphanumeric key pad
- Facilitates storage of 20 methods
- In-built DO meter for detection of pre-deaeration and post-deaeration DO values
- Printout of test report via in-built thermal printer and 80 C column

## Versatility

- Unparalleled versatility due to 1 ml volume change increments
- 360° turning radius allows maneuvering in tight places
- Multifunction single hose ensures no lifting of heavy media tank

## User Friendly

- Ergonomically designed nozzle with embedded dispense switch for ease of operation
- User friendly validation and calibration of media volumes

## Reports

- Print out of validation, calibration, dispensed volume and temperature reports

Patented

New

With Integrated DO Probe

CE



EMD-21PDO



Batch Capacity



Rugged-SS Construction



Temperature Accuracy



Memory



No Lifting of Media Tank



Deaerates Surfactants



Programmable Vacuum



Dead Volume



Volume Change Increment

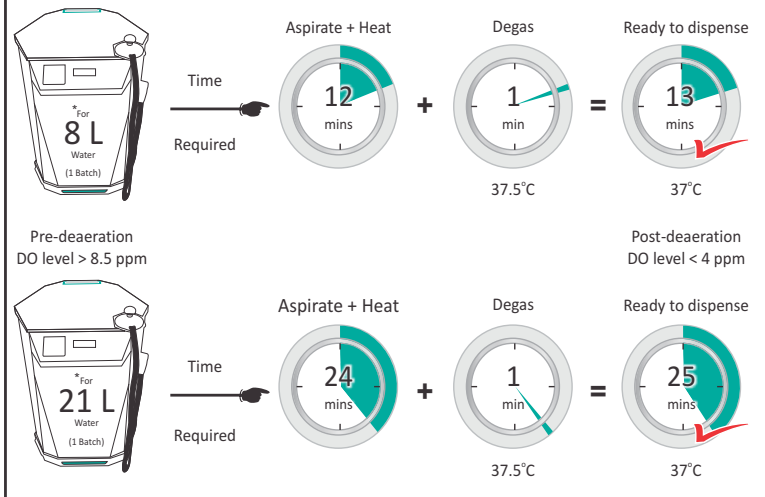


DO Level

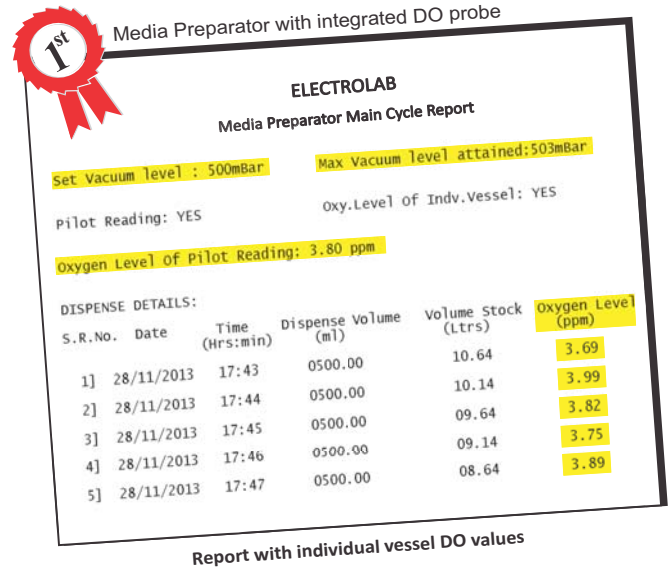


Storage

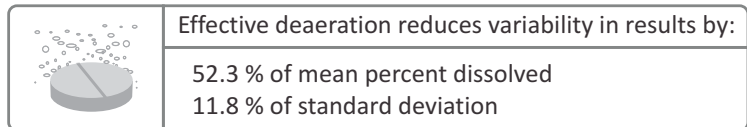
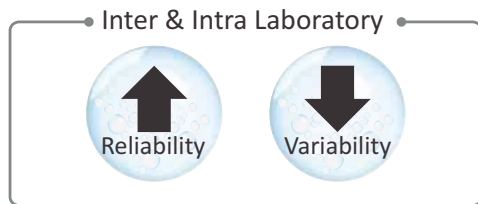
**Single batch deaeration reduces process time and ensures inter-vessel consistency in DO level**



\*Data on file (DO: Dissolved Oxygen)



USP 35 states “Dissolved gases can cause bubbles to form, which may change the results of the test.”



Ref : Eaton J et al. Perturbation Study of Dissolution Apparatus Variables - A Design of Experiment Approach. Dissolution Technologies; 14(2):20-26.

≤ 6 ppm is recommended dissolved oxygen level for USP Prednisone Tablets RS (Ref : USP Dissolution Toolkit version 2.0)

**Features of Optical DO probe**

- Compliance with ASTM International Method D 888 – 05
- Quick response optical sensor technology
- No membrane: Cost-effective optical sensor technology allows maintenance - free operation
- No electrolyte, no drift
- No O<sub>2</sub> consumption: Precise in low O<sub>2</sub> concentration
- No cross sensitivity with pH 1-14, CO<sub>2</sub>, H<sub>2</sub>S, SO<sub>2</sub>
- Real time temperature compensation
- Provides reliable and reproducible results
- Rugged and robust stainless steel construction



DO Meter  
Part no - 0701A00007

## Specifications

Model	EMD-21PDO	
Product code	<b>230 Volts</b>	<b>110 Volts</b>
	S.S. : 0740100	S.S. : 0730100
<b>Aspiration :</b>		
Media volume	2 L to 21 L	
Accuracy	± 1 %	
Flow rate (during run cycle)	900 ml/min	
<b>Dispense :</b>		
Dispense volume	50 ml to 4 L	
Accuracy	± 1 %	
Flow rate (during run cycle)	900 ml/min	
<b>Temperature :</b>		
Temperature range	20°C to 50°C	
Temperature accuracy	0.5°C	
<b>Other specifications :</b>		
Degassing level (measured by DO meter)	≤ 4 ppm of DO*	
Media tank	Stainless Steel	
Vacuum	100 mm/Hg to 500 mm/Hg	
Piston pump	High performance piston pump	
Piston pump accuracy	± 1 %	
Electrical power	230 VAC/50 Hz ± 10 % 110 VAC/50 Hz ± 10 %	
Dimensions (Ø x H)	55 cm x 92 cm	
Weight	100 kg	

\* Dependent on media type and conditions

## Our Products

- Complete range of Dissolution Testers • Disintegration Testers • Friability Testers • Tablet Hardness Testers
- Electromagnetic Sieve Shakers • Tap Density Tester • Bulk Density Tester • Powder Flow Tester • Leak Tester • Peristaltic Pumps



The information contained in this document is believed to be correct but ELECTROLAB accepts no liability for any errors and reserves the right to alter specifications without notice  
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