

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



EMD-21PDO



Batch Capacity



Rugged-SS Construction



Temperature Accuracy



Memory



No Lifting of Media Tank



Dearates Surfactants



Programmable Vacuum



Dead Volume



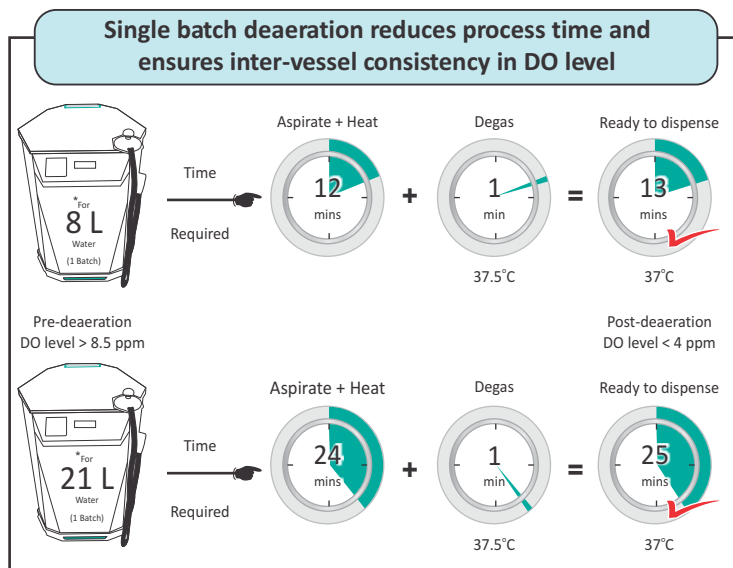
Volume Change Increment



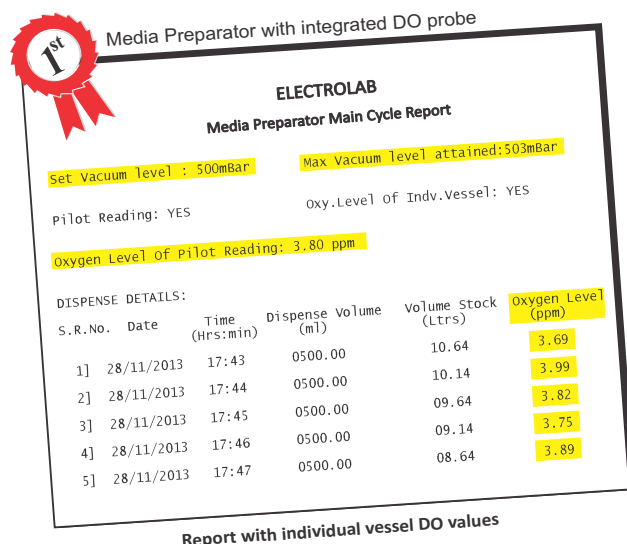
DO Level



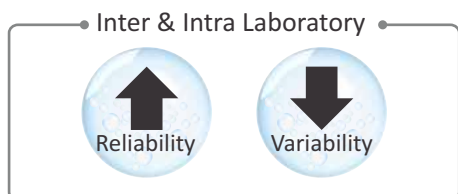
Storage



*Data on file (DO: Dissolved Oxygen)



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



Effective deaeration reduces variability in results by:

52.3 % of mean percent dissolved
11.8 % of standard deviation

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 O₂ consumption: Precise in low O₂ concentration
- No cross sensitivity with pH 1-14, CO₂, H₂S, SO₂
- 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	230 Volts	110 Volts
	S.S. : 0740100	S.S. : 0730100
Aspiration :		
Media volume	2 L to 21 L	
Accuracy	± 1 %	
Flow rate (during run cycle)	900 ml/min	
Dispense :		
Dispense volume	50 ml to 4 L	
Accuracy	± 1 %	
Flow rate (during run cycle)	900 ml/min	
Temperature :		
Temperature range	20°C to 50°C	
Temperature accuracy	0.5°C	
Other specifications :		
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
December, 2015 / 070F002

ELECTROLAB (India) PVT. LTD. (CIN NO : U33110MH2002PTC136735)

Head Office : 401, Tirupati Udyog, I. B. Patel road, Off. Western Express highway, Goregaon (East), Mumbai - 400 063, India.

Tel : +91 - 22 - 4041 3131 • E-mail : sales@electrolabindia.com

Factory : EL 23/24, T. T. C., Electronic Zone, M. I. D. C., Mahape, Navi Mumbai - 400 710, India.

Tel : +91 - 22 - 4161 3131 • Website : www.electrolabindia.com

