

### Media Degasser

#### 21 liters Mobile Dissolution Media Degasser with embedded printer



**EMD-21PDO**

#### Features:

- Enables filtration, pre-heating, deaeration, and precise dosing of media in the vessel within the dissolution bath
- 21 ltr media tank capacity allows filling of dissolution vessels for up to 3 dissolution tests (n = 6)
- Integration with DO<sub>2</sub> probe facilitates individual vessel and pilot DO<sub>2</sub> levels for record and audit purposes
- Entire dissolution batch degassing ensures inter-vessel degassing consistency
- Volumetric dispensing with an accuracy better than  $\pm 1\%$  as per USP, FDA and Ph. Eur. Requirements
- Special internal nozzle design allows the degassing of surfactant and frothing media like Sodium Lauryl Sulphate (SLS) and avoid frothing Tween
- Programmable deaeration time, temperature and vacuum for effective deaeration of different media
- Maintains media under vacuum at desired temperature while in idle condition
- Fast aspiration, heating and degassing allows 8 litres of media to be dispensed in less than 15 mins
- Fast filling of dissolution vessels at a dispensing rate of 900 ml/min
- Programmable rinse and cleaning cycle allows the instrument to run through a prevalidated self cleaning procedure
- On-board memory stores 10 batch information of degassed media
- 360 turning radius allows it to be maneuvered in tight places
- Multifunction single hose for dispensing, aspirating, cleaning, rinsing, and draining ensures no lifting of heavy media tanks
- Print report consisting validation, calibration and main cycle report. Main cycle report consists set vacuum level, dispensed volume, degassing temperature, O<sub>2</sub> level, O<sub>2</sub> level of pilot reading, O<sub>2</sub> level of individual

vessel and maximum vacuum level attained

- Embedded printer for printing reports
- **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

#### Specifications:

Model	EMD-21PDO
Flow rate	900 ml/min. (During run cycle)
Dispense Volume	Programmable from 50 ml to 4000 ml
Temperature Range	20°C to 50°C
Temperature Accuracy	$\pm 0.5^\circ\text{C}$
Media preparation time	25 min
O <sub>2</sub> level	Normal tap water which contains 85% of dissolved O <sub>2</sub> before degassing will contain 40% of dissolved O <sub>2</sub> after degassing
Hose	Single
Media tank	S.S. 316, Teflon coated
Vacuum pump	760 mmHg
Piston pump	Ceramic metering piston pump
Accuracy	Better than 1%
Power	1200 watts
Power supply	230V AC/ 50Hz. $\pm 10\%$ & 110V AC/60Hz $\pm 10\%$
Storage temperature	10°C to 50°C
Operating temperature	10° C to 30°C
Dimensions (LxWxH)	562mm x 425mm x 871mm
Weight	60Kg (Approx.)

#### Ordering Information:

Products		
Product code	Description	Quantity
720500	EMD-21PDO (Body made of M.S.) -230V	1
710500	EMD-21PDO (Body made of M.S.) -110V	1

Standard Accessories		
Part number	Description	Quantity
0705A00004	EMD Hose Assembly with Handle	1
0705B00015	EMD DO2 Sensor	1
0705B00024	EMD-21 PDO Extension Cable For DO2 Sensor	1

Dismantling Charges		
Product code	Description	Quantity
0705S12	Dismantling Charges for Media Degasser Model EMD-21PDO	1

Single Validation Charges		
Product code	Description	Quantity
0705S08	Single Validation Charges for Media Degasser Model EMD-21PDO	1

### Optional Accessories

Product code	Description	Quantity
0909A00007	STARLITE-12 Thermal paper roll (Set of 24)	1
0104A00449	Deconex 12 Basic (1000ml bottles)	1
0705A00001	EMD-21PDO Handle	1
0104A00785	Connexion +	1
0705A00013	EMD Aspiration Nozzle Assembly SS	1
0705A00009	EMD Prime Nozzle Assembly SS	1
0705A00013	EMD Aspiration Nozzle Assembly SS	1
0705A00009	EMD Prime Nozzle Assembly SS	1
0705A00005	EMD Media Aspiration Holder	1
0705A00003	EMD Prime Holder	1
0705A00012	EMD PCB Card Cover	1
0705A00006	EMD Magnetic Mains Cords	1
0705A00007	EMD Acrylic Cover for Printer	1
0705A00008	EMD Front Cover	1
0705A00010	EMD Stand for Prime And Aspirate Nozzle Sensor	1

### Breakdown Accessories

Part number	Description	Quantity
0705B00002	EMD-21PDO Driver Card	1
0705B00032	EMD-21PDO top cover	1
0704B00005	EMD-21PDO Processor Card New (1904002)	1
0705B00001	EMD-21PDO Processor Card	1
0705B00003	EMD-21PDO Front Panel with Keypad	1
0705B00019	EMD-21PDO Display Card	1
0705B00004	EMD-21PDO Proxy Sensor	1
0705B00010	EMD-21PDO LCD Display	1
0705B00005	EMD-21PDO 30 Pin FRC Cable SMD (Processor Card to Driver Card)	1
0705B00026	EMD Hose Assembly Handle	1
0704B00008	EMD SS Encloser	1
0705B00037	EMD Proactive Kit(Mechanical)	1
0705B00027	EMD Software Customization	1
0705B00031	EMD Heater Coil With Chamber For 110V	1
0704B00006	EMD-21 Heater,Circulation Pump,Card (1905001)	1
0703B00001	EMD-21 Driver Card	1
0705B00038	EMD Back Cover	1
0705B00022	EMD-21 DO Back panel Mains Bracket	1
0703B00005	EMD 20 Pin FRC cable (Display Card to Front Panel with Keypad)	1
0703B00004	EMD Printer Patch	1
0705B00033	EMD Mains Cord With Connector	1
0705B00014	EMD Magnetic Sensor	1
0704B00007	EMD-21 Motor Drive	1
0705B00035	EMD Break Handle Assembly	1
0705B00006	EMD LED Light for Indication	1
0705B00007	EMD Break Camp Disk	1
0705B00008	EMD Front Panel housing Weldment	1
0705B00012	EMD FAN 24V	1
0705B00013	EMD 34 Pin FRC cable - Display to Processor card	1
0705B00016	EMD Break Wire	1
0705B00036	EMD-Driver Card With Motor Drive(SR3-MINI)	1
0705B00009	EMD Dispense Key for Hose Assembly	1
0703B00003	EMD Hall Effect Sensor	1
0705B00034	EMD Platinum Kit	1
0705B00028	EMD-21 Heater Coil With Chamber 230V	1

### Assurance Plan

Product code	Description	Quantity
0705S03	Silver Assurance Plan for Media Degasser Model EMD-21PDO	1
0705S01	Platinum Assurance Plan for Media Degasser Model EMD-21PDO	1
0705S02	Gold Assurance Plan for Media Degasser Model EMD-21P	1
0705S20	Bronze Assurance Plan for Media Degasser Model EMD-21PDO	1

### Inspection & Service Charges

Product code	Description	Quantity
0705S06	Inspection & Service Charges for Media Degasser Model EMD-21PDO	1

### IQ/OQ Document

Product code	Description	Quantity
0705S15	IQ/OQ Document for Media Degasser Model EMD-21PDO	1

### Reinstallation Charges

Product code	Description	Quantity
0705S11	Reinstallation Charges with IQ/OQ Document for Media Degasser Model EMD-21PDO	1

### In-House Repairing

Product code	Description	Quantity
0705S07	In-House Repairing for Media Degasser Model EMD-21PDO	1