ELECTROLAB Datasheet

Media Degasser

21 liters Mobile Dissolution Media Degasser



EMD-21DO

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 DO₂ probe facilitates individual vessel and pilot DO₂ levels for record and audit purposes
- Entire dissolution batch degassing ensures inter-vessel degassing consistency
- Volumetric dispensing with an accuracy better than ± 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 cylce report. Main cycle report consists set vacuum level, dispensed volume, degassing temperature, O₂ level, O₂ level of pilot reading, O₂ level of individual

- Vessel and maximum vacuum level attained
- 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 O 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

Specifications:

Model	EMD-21DO
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	<u>+</u> 0.5°C
Media preparation time	25 min
O ₂ level	Normal tap water which contains 85% of dissolved O_2 before degassing will contain 40% of dissolved O_2 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. <u>±</u> 10% &110V AC/60Hz ±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
720400	EMD-21DO (Body made of M.S.) - 230V	1
710400	EMD-21DO (Body made of M.S.) - 110V	1

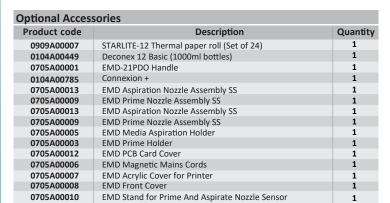
Standard Accessories		
Part number	Description	Quantity
0705A00004	EMD Hose Assembly with Handle	1
0705B00015	EMD DO2 Sensor	1
0705B00024	EMD-21 PDO Extension Cable For DO2 Sensor	1

Dismantling Charges			
Product code	Description	Quantity	
0704S12	Dismantling Charges for Media Degasser Model EMD-21DO	1	

Single Validation Charges			
Product code	Description	Quantity	
0704S08	Single Validation Charges for Media Degasser Model EMD-21DO	1	

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Breakdown Ac	cessories	
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
0704503	Silver Assurance Plan for Media Degasser Model EMD-21DO	1
0704S01	Platinum Assurance Plan for Media Degasser Model EMD-21DO	1
0704S02	Gold Assurance Plan for Media Degasser Model EMD-21DO	1
	Bronze Assurance Plan for Media Degasser Model EMD-21DO	1

Inspection & Service Charges		
Product code	Description	Quantity
0704S06	Inspection & Service Charges for Media Degasser Model EMD-21PDO	1



IQ/OQ Docur	nent	
Product code	Description	Quantity
0704S15	IQ/OQ Document for Media Degasser Model EMD-21DO	1
Reinstallation	n Charges	
Product code	Description	Quantity
0704S11	Reinstallation Charges with IQ/OQ Document for Media Degasser Model EMD-21DO	1
In-House Rep	airing	
Product code	Description	Quantity
0704S07	In-House Repairing for Media Degasser Model EMD-21DO	1
Extended IQ/	OQ Document	
Product code	Description	Quantity
E0704S15	Extended IQ/OQ Document for Model EMD-21DO	1
Extended Wa	rranty Support Plan	
Product code	Description	Quantity
0704S31	Extended Warranty Support Plan for Media Degasser Model EMD-21DO (2 Years)	1
Upgradation		
Product code	Description	Quantity
0704S13	Upgradation for Media Degasser Model EMD-21DO	1
Service Charg	es	
Product code	Description	Quantity
0704S05	Service Charges for Model EMD-21DO	1
Re-Calibratio	n Charges	
Product code	Description	Quantity
0704S09	Re-Calibration Charges for Media Degasser Model EMD-21DO	1
Re-installatio	n Charges without IQ/OQ	
Product code	Description	Quantity
0704S10	Re-installation Charges Without IQ/OQ for Media Degasser Model EMD-21DO	1
Inspection Charges		
Product code	Description	Quantity
0704S04	Inspection Charges for Media Degasser Model EMD-21DO	1

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