

- **Compact Design**

Efficient and well thought out design offers a dissolution media preparation station that can easily fit on the bench or be used with the optional mobile cart.

- **In-line Heating****

Eliminates time delays and wasted energy associated with immersion heaters used in bulk media tanks. The system is ready to prepare media immediately upon power up.

- **Precision Vacuum Chamber**

The piston controlled vacuum chamber creates a high vacuum for effective de-aeration and delivers precise media volumes accurate to within 1% of the set volume.

- **Variable Dispense Volumes**

User selectable volume settings from 250 ml to 1000 ml allow for quick and easy volume changes without the need for system recalibration.

- **MDC - Multiple Dispensing Cycle**

Allows the system to process multiple vessels simultaneously for volumes set at or below 500 ml.

- **Variable Temperature**

User selectable temperatures from ambient to 45°C.

- **Automated Wash Cycle**

User selectable wash cycle settings of 1-4 or continuous for the unattended rinsing of the system between media changes.

*Cycle time is volume and temperature dependent

**Maximum 20C deg. rise

Dissolution Media Degasser



Simply...Easy

The ezfill 4500 is compact, transportable, and easy-to-use. The unique integration and control of critical functions like heating and vacuum degassing allow the unit to prepare and accurately dispense media in less than 90 seconds* for volumes as large as 1000 mls. The system is user programmable and volumes are settable between 250 mls and 1000 mls in 5 ml increments. For programmed volumes of less than 500 mls the unit will automatically employ the MDC or Multiple Dispensing Cycle mode. The MDC simultaneously processes aliquots of media in multiples equal to the maximum volume of 1000 mls per cycle. The MDC mode significantly reduces the average time to dispense by taking advantage of the ezfill's ability to batch process.

The ezfill 4500 offers tight controls over key volume and temperature parameters with accuracies of $\pm 1\%$ for volume and $\pm 2^\circ\text{C}$ for temperature, meeting compendia requirements. The high precision glass vacuum chamber and piston are used to create the conditions for fast and effective de-aeration and media dispensing where up to 3 ppm of dissolved oxygen can be removed. Because an analytical balance and vacuum pump are not required to prepare and dispense media, the ezfill 4500 is compact, light weight and easily relocated around the dissolution laboratory.

ezfill Specifications

Dispensing Volume	250 mls to 1000 mls	
Dispensing Accuracy	±1% of set volume, but not less than ±5 mls	
Heating Capacity	+20C deg. increase from starting point	
Degassing	Up to a maximum of 3.0 ppm, to a level of not less than 5.0 ppm	
Input Filter	25 mm in-line filter holder	
Temperature Control	Cartridge Heater	
Temperature Accuracy	± 2°C	
PC Interface	RS-232 (serial) & USB 2.0	
Unit Dimensions	Height	27.50" (70 cm)
	Width	12.25" (31 cm)
	Depth	10.25" (26 cm)
Weight	42 lbs (19 kg)	
Electrical Power	115V ± 15V 50/60Hz 15A or 230V ± 15V 50/60Hz 8A (Operating voltage pre-set at factory)	

Parts and Accessories

Replacement Tubing Kit. Includes 7.5 Feet of 1/4 Inch Polyethylene Tubing and 1.5 Feet of 1/4 Inch Clear PVC Tubing.	2600-0041
Main Overlay	7401-0025
Dispensing Tip	3250-0189
1/4 Inch NPT Thread Insert with Shutoff. Connected to Dispensing Tip.	5720-9026
Wash Tubing Assembly	2800-0033
Filter Holder	5570-0036
DC Motor and Wiring Assembly	2700-0120
FEP Encapsulated O-Ring for Piston	5570-8022
Heater and Thermocouple Including Wiring Assembly	2700-0122
Temperature Sensor Including Wiring Assembly	2700-0125
Encoder and Limit Switch Including Wiring Assembly	2700-0118
Upper and Lower Solenoid Valve	5720-9205
Upper Solenoid Valve	5720-0036
Drive Belt	5300-0005
Remote Dispensing Nozzle. Includes Remote Dispensing Unit, Hose and Control Cable.	2800-0169
Mobile Cart	2600-0105



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