

**Welch®**  
**Laboratory Vacuum Catalog**  
**2005-2006**

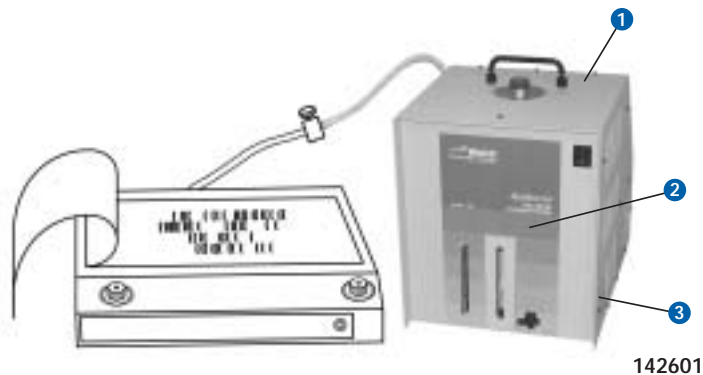
**Gel Dryer & Concentrator**  
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**COMBINED FLUID PRODUCTS COMPANY**  
805 Oakwood Road, Lake Zurich, Illinois 60047  
[sales@combinedfluidproducts.com](mailto:sales@combinedfluidproducts.com)  
[www.combinedfluidproducts.com](http://www.combinedfluidproducts.com)  
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# Gel Dryer & Concentrator

## Fast, Crack-free Gel Drying



“Did you know that > 90% of liquid/vapor, by mass, comes off in the first 15 minutes of drying?”

- 1 Internal cooling fan aids vapor collection
- 2 Reservoir trap operates at room temperature
- 3 Diaphragm vacuum pump pulls off moisture

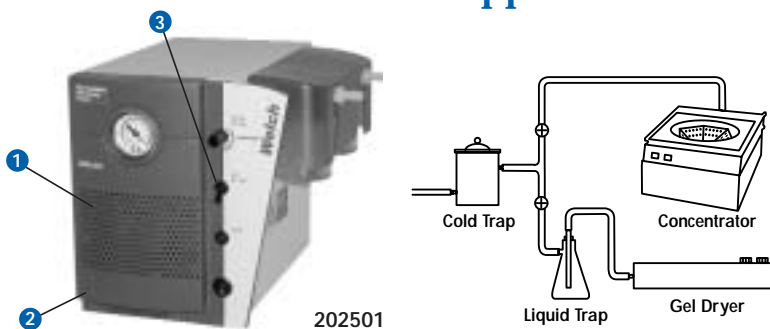
### GELMASTER™ Gel Dryer Vacuum System

A high efficiency diaphragm pump and a vapor trap make this pump equivalent to an oil-sealed, rotary vane pump with a dry ice trap. The vapor trap has reusable trapping fluid that doesn't mix with the collected condensate. It will handle 10 to 15 drying runs before draining is necessary. Simply open the valve and drain the collected fluid. Patented design (No. 5,289,641).

Gel Dryer Vacuum System comes complete and ready to use. Includes 5 ft. (1.5 m) of 3/8 in. (10 mm) ID PVC vacuum tubing, in-line stopcock, hose clamps, detachable line cord, and one liter of trapping fluid. Welch recommends flushing out vapor trap once a year (cat. no. 8995C-70) for optimum performance.

Cat. No.	Description
142601	115V, 60Hz, 1 Ph, with N. American 115V plug Dimensions: 14.25" L x 15.5" W x 14" H (28.6 x 49.4 x 35.6 cm) Weight: 33.5lbs(15.2kg).
142602	Same as 142601, except wired for 220V, 50Hz, with Cont. Euro. (Schuko) plug.
142603	Same as 142601, except wired for 230V, 60Hz, with N. American 230V plug.
142604	Same as 142601, except for 100V, 50/60 Hz, with US 115V plug(Japan).
142606	Same as 142601, except for 220V, 50Hz, with UK 220V plug.
8995C	One liter of replacement trapping fluid.
8995C-70	One gallon of flushing fluid.

## Two Applications With One Pump



- 1 Corrosion resistant PTFE diaphragm pump
- 2 Self-Cleaning on shut-down
- 3 Gas ballast inhibits vapor condensation

### DRYFAST® Self-Cleaning Dry Vacuum System

The Self-Clean Dry Vacuum System with 34 L/min @ 60Hz of pumping capacity is sufficient for either a gel dryer or a concentrator. Due to the high vapor load from a gel dryer, an in-line Dry Ice Slurry Cold Trap is recommended. A typical set-up is shown.

Cat. No.	Description <sup>1</sup>
202501	115V, 60Hz, 1 Ph, with N. American plug. 34 L/min., 9 Torr. Dimensions: 12.75" L x 8" W x 11.5" H (32.4 x 20.3 x 29.2 cm) Weight: 28lbs (12.7kg)
202503	Same as 202501, 50Hz with IEC connection and detachable Schuko line cord. 28 L/min., 12 mbar, CE

Note: 1. See page 19 for more details.

Works with all Gel Dryers Including:				
Cat. No. (115V/60Hz)	Bio-rad	Hoefer	FisherBiotech	Labconco
142601 or 202501	583	SE 1200, GD 2000	FB-GD-45-10	27200-962, 27200-963

