

Welch®

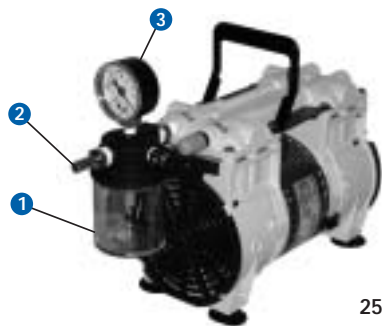
**Laboratory Vacuum Catalog
2005-2006**

**Laboratory Automation & Tissue Culture Systems
Catalog Page 13**

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COMBINED FLUID PRODUCTS COMPANY
805 Oakwood Road, Lake Zurich, Illinois 60047
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www.combinedfluidproducts.com
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High Flow For Aspirating 96 or 256 Well Systems



2567B-50

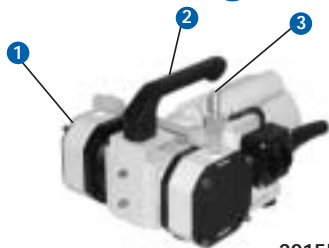
"Did you know that most aspiration systems run between 22"Hg (268 mbar) and 18"Hg (404mbar)?"

- 1 Liquid trap to avoid ingestion of fluids into the pump
- 2 Vacuum to 27.6" Hg(80 mbar)
- 3 Dial vacuum gauge for continuous vacuum level monitoring

High Through-Put Standard Duty Dry Pumps

Standard duty, oil-free pumps provide continuous high throughput flow for up to 256 well systems. Each pump comes with a vacuum gauge to monitor vacuum level and an inlet trap to prevent the accidental ingestion of liquids/particles. The high flow allows the aspiration of sticky or viscous substances. Both cat. nos. are recommended for aspirating aqueous solutions including buffers, but not for acidic, basic or organic vapors and gases. Cat. nos. 2585B-50 (115V, 60Hz), 2585C-50 (230V, 50Hz) recommended for 96 and 256 well systems. Cat. nos. 2567B-50 (115V, 60Hz), 2567C-50 (230V, 50Hz) recommended for 96 and smaller well systems. See pages 20-21 for complete specifications.

High Flow For Aspirating Harsh Chemicals



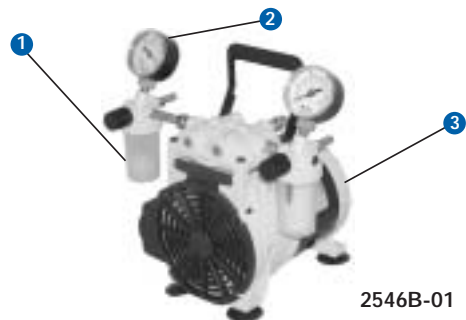
2015B-01

- 1 PTFE construction resists chemical attack
- 2 Vacuum to 26.7"Hg(106 mbar)
- 3 High flow, steady reliable vacuum

High Through-Put Chemical Duty Dry Pumps

Chemical duty oil free pumps provide continuous high throughput flow for automated organic synthesis systems. Wetted parts are made of fluorinated plastics that can withstand the use of aggressive chemicals. Cat. nos. 2015B-01 (115V, 60Hz), 2015C-02 (230V, 50Hz) recommended for up to 12 well systems and 2017B-01 (115V, 60Hz), 2017C-02 (230V, 50Hz) for up to 96 well systems. See pages 18-19 for complete specifications.

Accessorized For Tissue Culture Aspiration



2546B-01

- 1 Water trap protects against accidental ingestion
- 2 Vacuum regulator adjusts and monitors vacuum level
- 3 Muffler quiets pump

Standard Duty Dry Pump

Standard duty pump, cat. no. 2546B-01 (115V, 60Hz), 2546C-02 (230V, 50Hz), is an ideal economical solution for aspirating tissue culture samples. Added accessories simplify use, lower noise level and extend service life. All wetted parts are treated for corrosion protection from moisture. Pump is compact, lightweight, and easy to use. Recommended for aspirating aqueous solutions including buffers, but not for acidic, basic or organic vapors and gases.

Application Note on Aspiration

The most common reason for vacuum pump failure is ingestion of liquid into the pump mechanism. Dry vacuum pumps are designed for pumping gases and vapors. Liquids ingested into the pump mechanism will either cause the valves to fail on Standard Duty Pumps or the diaphragm to rupture on Chemical Duty Pumps. Welch recommends a liquid trap with a volume greater than twice the volume aspirated in a day be installed between the pump and aspiration system. At the end of each day, the liquid trap needs to be emptied.

