



PRODUCT NO.: 8430



**HYBRID VACUUM PUMP, LABCONCO (115L/Min, 230V, 50/60Hz)
18.9"W x 9.0"D x 15.0"H, For Freeze Dry Systems**

DESCRIPTION: These combination rotary vane/diaphragm vacuum pumps are designed for use with acids and other harsh chemicals including TFA, TFA by-products and acetonitrile. The pumps consist of a two-stage rotary vane pump and two-stage, chemically-resistant diaphragm pump. The rotary vane pump provides the deep vacuum required for good freeze drying results and other evaporation needs. The diaphragm pump removes the condensable vapors in the rotary vane pump before they can contaminate the oil, thus extending the life of the oil and ultimately the life of the pump. Pump oil lasts up to 10 times longer than in conventional rotary vane pumps.

VACUUBRAND Hybrid Pumps integrate a high performance rotary vane pump with a chemical-resistant diaphragm pump to create a low maintenance, longer-lasting pump. The diaphragm pump removes the condensable vapors in the rotary vane pump before they can contaminate the oil, thus extending the life of the oil and ultimately the life of the pump. Pump oil lasts up to 10 times longer than in conventional rotary vane pumps under virtually any condition. Long periods between oil changes reduce cost and down time.

FEATURES:

- Designed for use with acids and other chemicals including TFA, TFA by-products, acetonitrile, HBr and HNO₃, present in samples such as HPLC-prepared and peptide purified materials
- Combination pump system consists of a two-stage rotary vane pump and two-stage, chemically-resistant diaphragm pump.
- A pressure control valve compensates for the different volumes displaced by the two pumps.
- Ultimate vacuum (partial pressure) $<3 \times 10^{-3}$ mBar (2.25 micron)
- Ready to use and fully charged with vacuum pump oil (approximately 1 liter)
- 3/4" OD inlet adapter
- Includes power switch, power cord and plug.

TECHNICAL SPECIFICATIONS:

- Weight (lbs / kg): 66.0 / 30.0
- Dimensions, W x D x H (in / cm): 18.9" x 9.0" x 15.0" / 48 x 22.9 x 38.1
- Electrical: 230V, 50/60Hz, 1.6 amps, Domestic
- Displacement Capacity at 60 Hz (50 Hz): 115 (98) Liters/minute
- Electrical Standard: Domestic
- Ultimate Vacuum: $<3 \times 10^{-3}$ mBar
- Vacuum Pump Applicable Products: CentriVap Centrifugal Vacuum Concentrators, FreeZone 1 Liter Freeze Dry Systems, FreeZone 12 Liter Freeze Dry Systems, FreeZone 18 Liter Freeze Dry Systems, FreeZone 2.5 Liter Freeze Dry Systems, FreeZone 4.5 Liter Freeze Dry Systems, FreeZone 6 Liter Freeze Dry Systems

ADDITIONAL INFORMATION:

Applicable Products:

- 8969: FreeZone Triad Freeze Dry System, 2.5L
- 7383: FreeZone Cascade Freeze Dry System w/Stoppering Tray Dryer, 6L
- 8432: FreeZone Cascade Freeze Dry System, 12L
- 7417: FreeZone Cascade Freeze Dry System, 18L