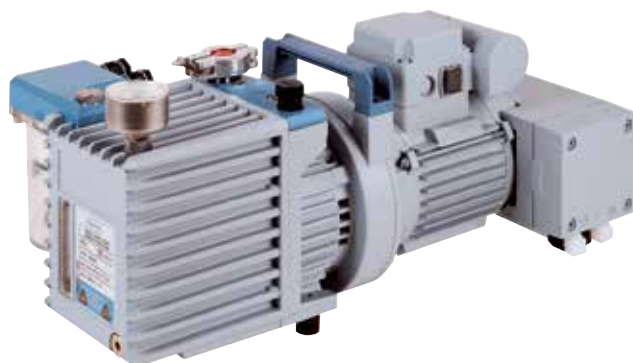


VACUUBRAND HYBRID* Vacuum Pumps



- Drastically reduce need for oil changes
- Reduce downtime
- Reduce oil waste
- Extend the life of your pumps

VACUUBRAND HYBRID* Vacuum 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.

Catalog Number	Electrical Configuration	Displacement At 60 Hz (50 Hz) liters/minute	Dimensions w x d x h inches (cm)	Shipping Weight lbs. (kg)
7584000	115 volts, 60 Hz, 5.1 A Includes 115 volt NEMA 5-15P plug.	115	20.0 x 12.0 x 9.1 (51.0 x 30.5 x 23.0)	66 (30)
7584002	230 volts, 50/60 Hz, 2.7 A Includes 230 volt reverse IEC plug.	115 (98)	20.0 x 12.0 x 9.1 (51.0 x 30.5 x 23.0)	66 (30)

*VACUUBRAND HYBRID™ is a trademark of VACUUBRAND GMBH + CO KG.

** Polytetrafluoroethylene

Features & Benefits

- Designed for use with acids and other harsh chemicals including TFA, TFA by-products, acetonitrile, HBe and HNO₃ present in samples such as HPLC-prepared and peptide purified materials.
- Compatible with FreeZone Freeze Dry Systems and CentriVap® Centrifugal Concentrators.
- Combination pump system consists of a two-stage rotary vane pump and two-stage, chemical-resistant diaphragm pump. The rotary vane pump provides the deep vacuum required for good freeze drying results and other evaporation needs. These pumps have the vacuum capabilities of a rotary vane pump and, in combination with the diaphragm pump, have improved solvent and acid handling capabilities.
- Low maintenance, longer lasting. The diaphragm pump, made of PTFE** and other chemical-resistant fluoropolymer components, 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.
- Environmentally-friendly. Pump oil lasts up to 10 times longer than in conventional rotary vane pumps under virtually all conditions. Fewer oil changes conserves resources.
- Ultimate vacuum (partial pressure) 2×10^{-3} mBar (1.5 micron)
- Pressure control valve compensates for the different volumes displaced by the two pumps.
- Glass separator captures downstream condensate vapors.
- 3/4" OD inlet adapter.
- Include one liter bottle of vacuum pump oil, power switch, power cord and plug.



Protecting your
laboratory environment

LABCONCO®

VACUUBRAND* Diaphragm Pumps



Features and Benefits:

- Designed for use with acids and both high boiling point and low boiling point solvents. Diaphragm and wetted parts are PTFE* or PTFE-compounds to resist chemical degradation.
- Compatible with CentriVap Vacuum Concentrators and RapidVap Vacuum Evaporation Systems.
- Triple stage pump circuitry
- Gas ballast valve allows air to flow into the pump chamber to clear the pump of moisture and prevent condensation.
- The pump and connection heads are reinforced with carbon fiber to minimize potential for spark.
- 63 Liters/minute pumping speed (at 60 Hz); 57 Liters/minute (at 50 Hz).
- Ultimate vacuum (partial pressure) 1.5 mBar (1.1 Torr)
- Dimensions: 12.8" w x 9.6" d x 7.8" h (325 x 243 x 198 mm)
- 1/2" (12.7 mm) OD inlet port.
- Include water-resistant power switch, power cord and plug.

- **Chemical-resistant components suited for applications where aggressive solvent and acid vapors are present**
- **Quiet operation**
- **Pull vacuum to ultimate pressure 1.5 mBar**

VACUUBRAND Diaphragm Pumps provide deep vacuum as low as 1.5 mBar ultimate pressure. Unlike rotary vane pumps, these low maintenance pumps do not require vacuum oil. These pumps have four heads for maximum pumping capacity. Since the diaphragm and all components coming in contact with vapors are PTFE** or PTFE-compounds, the pumps may be used with applications where aggressive solvent and acid vapors are present.

Catalog Weight		Vacuum	Pumping Speed	Chemicals	Shipping
7393000	Diaphragm Vacuum Pump for 115 volt, 60 Hz, 3.5 amp operation. Includes NEMA 5-15P plug.	1.5/1.1	63 @ 60 Hz	Acids Aqueous and high boiling point solvents Volatile and low boiling point solvents Combination solvents	40 (18)
7393001†	Diaphragm Vacuum Pump for 230 volt, 50/60 Hz, 2.0 amp operation. Includes 230 volt reverse IEC plug.	1.5/1.1	63 @ 60 Hz 57 @ 50 Hz	Acids Aqueous and high boiling point solvents Volatile and low boiling point solvents Combination solvents	40 (18)

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** Polytetrafluoroethylene

† International electrical configuration



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