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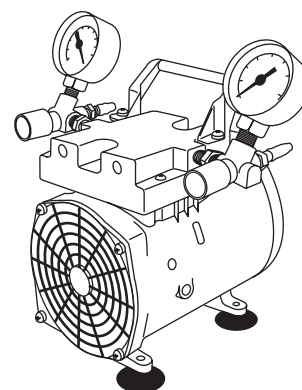
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High Output Vacuum/Pressure Pump

WP6211560
WP6222050
WP6210060



Introduction

The high output vacuum/pressure pump is a continuously-running constant air-flow type unit for use with laboratory equipment. This vacuum/pressure pump combines the quietness and durability of a diaphragm pump with the performance of a piston-type pump. It compresses air by means of a motor-driven piston. This pump is intended for filtration of liquids or for other continuous or intermittent uses, with all types of filter holders, multi-well devices, manifolds, and other laboratory equipment.

CAUTION: Always use the supplied hydrophobic vent filter or a vacuum-flask water trap in conjunction with the pump, as indicated in Figures 1 and 2. Never pump or draw liquids through the pump, as this will damage the pump.

The pump has these features:

- The motor and pump are permanently lubricated.
- A thermal overload switch with automatic reset protects the motor.
- Low operating noise is further minimized by rubber feet.
- A Millex®-FA₅₀ hydrophobic vent filter and 27 in. (69 cm) of 1/4 in. (6 mm) I.D. vacuum tubing are supplied with the pump.

Rules for Safe Operation



The motor is thermally protected and will automatically restart unexpectedly when the overload device resets.

Do NOT pump flammable or explosive gases or vapors or operate this pump in an atmosphere containing flammable or explosive gases or vapors.

Use of this pump in a manner not specifically stated in this user guide may result in severe bodily injury.

Read and understand the information in this owner's manual before operating the vacuum/pressure pump.

- The vacuum/pressure pump should be operated in a dry, clean, and well ventilated area.
- When the unit is not in use, wrap the power cord around the vacuum/pressure pump and store in a dry place. Do not abuse the cord.
- Replace the Millex®-FA₅₀ vent filter (SLFA05010) if necessary.
- Inspect hose, plug, and cord for signs of damage before use. Do not use if a deficiency is found. Never operate a damaged unit. For replacement parts, see Technical Assistance section for details.
- This vacuum/pressure pump needs no lubrication. Applying oil to any part may result in polluted air delivery to the air-handling equipment and will damage the pump.
- To operate at maximum efficiency, the pump system must be thoroughly clean. Refer to the Maintenance section for details on properly cleaning the pump.
- Compressed air blast must never be aimed at anyone because it can cause serious injury. Keep children away.
- All vacuum/pressure pumps generate heat, even under normal operating conditions. To avoid serious burns, never touch the head parts or tubing during and immediately after operation.
- When filtering acids, bases, or organic vapors or gases, use the Chemical Duty Vacuum/Pressure Pump (WP6111560, WP6122050, WP6110060).

Specifications

Performance

Vacuum	27.2 inches of Hg (inHg)
Maximum Free Air Displacement	34 L/min
Pressure	50 psi continuous, 80 psi intermittent
Sound Level	Less than 60 dB(A)

Dimensions	WP6211560	WP6222050, WP6210060
Length	8.0 in. (20.3 cm)	7.3 in. (18.5 cm)
Width	9.0 in. (22.9 cm)	9.0 in. (22.9 cm)
Height	9.8 in. (24.9 cm)	10.2 in. (25.9 cm)
Weight (approximate)	11 lbs (5 kg)	14.5 lbs (6.6 kg)
Tubing Connectors	Stepped 1/4 in. hose barb	

Materials of Construction

Body and pump head	Die cast aluminum
Pump Type	Piston with PTFE seal
Leaf valves	High grade stainless steel

Electrical Specifications

115 V~, 60 Hz, 5.1 A or 100 V~, 50/60 Hz, 4.1/2.7 A	Shaded-pole, single phase, 1/7 HP motor 3-pronged, grounded cord and plug
230 V~, 50 Hz, 1.1 A	Permanent split capacitor, 1/3 HP motor HAR cordage, CEE 7/7 (Schuko)
Line voltage limits	± 10% of supply voltage

Environmental Conditions

Temperature	5 °C (41 °F) to 40 °C (104 °F)
Relative Humidity, Maximum	80% for temperatures up to 31 °C, decreasing to 50% at 40 °C
Altitude, Maximum	2000 meters
Pollution Degree	2, per IEC 664 (indoor usage: lab, office, etc.)
Installation Category	II, per IEC 624 (local level: appliances, portable equipment, etc.)

Product Ordering Information

Catalogue Number

High Output Vacuum / Pressure Pump

115 V~, 60 Hz	WP6211560
230 V~, 50 Hz	WP6222050
100 V~, 50/60 Hz	WP6210060

Replacement Parts

Pump Maintenance Kit			
Includes head O-ring, cylinder O-ring, handle screws, and head screws			WP62MNT00
Pump Rebuild Kit			
Includes pressure gauge, vacuum gauge, valve plate assembly including flapper valves, head O-ring, cylinder O-ring, connecting rod assembly, handle screws, and head screws	115 V~		WP62RBDNA
	100 V~		WP62RBDEU
	230 V~		
Millex®-FA ₅₀ filter unit, 10/pk			SLFA05010
Pressure tubing, silicone, 25 ft			XX8000025
Vacuum tubing, silicone, 4 ft			XX7100004

Notice

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