



## SCHNEIDER LABORATORIES INCORPORATED

**Mailing & Shipping:** 2512 W. Cary Street, Richmond, VA 23220-5117

**Remit to:** P O Box 35702, Richmond, VA 23235

804-353-6778 Toll Free - 800-785-LABS FAX - 804-359-1475

www.slabin.com [info@slabin.com](mailto:info@slabin.com)

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## OPERATING INSTRUCTIONS for GAST OIL-LESS VACUUM PUMP

### Model 1531

#### General information

- **Clearances:** Top: .001"  
Ends: .0005" - .0010"
- **Vane Life:** 6,000 – 27,000 hours depending upon application
- **Model numbers ending in "X"** have automatic thermal protectors which protect the motor by shutting the motor off if it overheats. The motor will automatically restart once the motor has cooled.

#### Product Use Criteria:

- Pump only clean, dry air.
- Operate at 32°F - 104°F (0°C - 40°C).
- Protect unit from dirt & moisture.
- Do not pump flammable or explosive gases or use in an atmosphere that contains such gases.
- Protect all surrounding items from exhaust air. This exhaust air can become very hot.
- Corrosive gases and particulate material will damage unit. Water vapor, oil-based contaminants or other liquids must be filtered out.
- Consult your Gast Distributor/Representative before using at high altitudes.
- Oil-Less rotary-vanes require NO lubrication.
- Sealed bearings are grease packed.
- Use of petroleum or hydrocarbon products will reduce carbon vane service life.

#### **Operating Instructions:**

- Place pump on a stable service in range of an electrical outlet.
- Attach tubing to the pump valve.
- Taking the other end, thread it through the top of the tripod; attach the luer adapter, then removing the plug on the outlet side of the cassette, attach it to the luer adapter.
- Remove the plug from the inlet side of the cassette.
- Save both plugs and replace them on the cassette before shipping the cassette(s) to the lab.
- Turn on the calibrated pump which has been set at 10 LPM.
- Begin timing. In a relatively clean environment, sample the area for eight (8) hours. If the area is dirty/dusty, reduce the sampling time as to not overload the cassette.
- Be certain to designate the sampling time on your chain of custody form.