

Specifications of the AV-5000 WAFER ADJUST-A-VAC™

VACUUM:

Up to 8 inches of mercury at sea level.

DIMENSIONS:

LENGTH	HEIGHT	WIDTH
8" (203mm)	3" (76mm)	3.5" (89mm)

WEIGHT:

2.84 LBS. (1288.2 grams)

POWER REQUIREMENTS:

MODEL # AV-5000-110	110 VOLTS A.C.	50/60 HERTZ	4 WATTS
MODEL # AV-5000-220	220 VOLTS A.C.	50/60 HERTZ	4 WATTS

THIS KIT INCLUDES:

- 5 feet of 2.5mm clear coiled ESD Safe vacuum hose.
- Push button wafer vacuum pick-up handle for wafer tips (VVP-500).
- A wafer handling tip.
- A control knob to reduce vacuum level to pick up tip.
- Bar LED graph power-on and vacuum-level indicator.
- Rubber no-skid feet.
- ESD ground connection is by three wire power cord.
- Produces vacuum of up to eight inches of mercury.

Hose color may vary. Vacuum hoses are available in straight or coiled custom lengths, please contact Virtual Industries to order (719) 572-5566. There are no returns or refunds on custom lengths.

OPERATING INSTRUCTIONS AND SPECIFICATIONS

WAFER ADJUST-A-VAC™ Vacuum Tweezer™ - ESD Safe

Model No. AV-5000-110
Model No. AV-5000-220

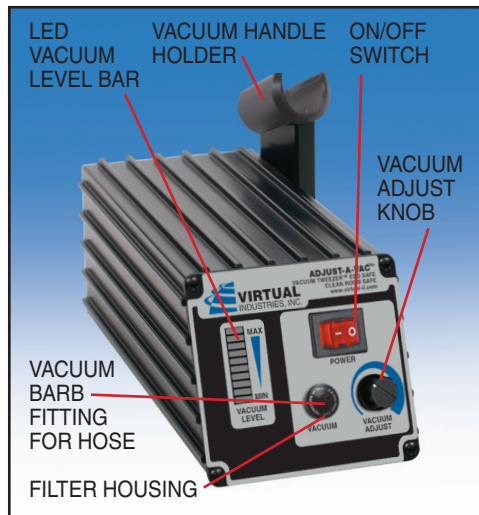


Operation of the AV-5000 WAFER ADJUST-A-VAC™

1. Insure that the replaceable filter housing has a filter installed and is snugly tightened to insure no vacuum leaks. Turning clockwise tightens. Connect one end of the vacuum hose to the barb fitting on the filter housing and the other end to the barb on the VACUUM PEN™ handle that has the push button.
2. Select a wafer tip sized for the wafer or substrate that you want to pick and place. Securely install it into the press fit adaptor at the front of the vacuum handle.
3. Connect the 3 wire AV-5000 power cord to input power. Turn the ON/Off switch to the ON position. The LED vacuum level bar will glow at low brightness to show that power is on.
4. To set the vacuum level for the substrates you will be handling: first rotate the VACUUM ADJUST knob fully counter-clockwise to set the vacuum to the minimum level. Secondly place the pick-up tip flat on the substrate that you want to pick up. If the part is not grasped then rotate the VACUUM ADJUST knob clockwise until the substrate is grasped sufficiently for handling. The display bars will light up brightly to show the level of vacuum that is present. Push the vacuum interupter button on vacuum handle to release the substrate.
5. You are now ready to pick and place wafers or other substrates with the vacuum level that you have set in the above steps. This tool is ideal for handling thin substrates that are sensitive to excessive vacuum levels during processing.



FILTER HOUSING



LED VACUUM LEVEL BAR
VACUUM HANDLE
ON/OFF SWITCH
VACUUM ADJUST KNOB
VACUUM BARB FITTING FOR HOSE
FILTER HOUSING



VACUUM RELEASE BUTTON



FILTER HOUSING
FILTER

Replacement Filters and Tips



Set of 5 replacement 40 micron inlet filters.
Order No. **VF-40M-5**



A selection of molded PEEK wafer tips for handling various sizes of wafers or substrates. The tips are available straight or with various bend angles for ergonomic ease of use. Temperatures of up to 100 C.

Check our website at <http://www.sipel.ch>



A selection of hard coated aluminum wafer tips for handling various sizes of wafers or substrates. The tips are available straight or with various bend angles for ergonomic ease of use. Temperatures of up to 250 C.

Check our website at <http://www.sipel.ch>