



UltraVac+ Vacuum/Drying Chamber Training Manual

**Hearing Instrument Restoration System** 



Thank you for choosing the MedRx *UltraVac+*. We feel we have designed a product that best fits the needs of today's professional hearing health care provider. The MedRx *UltraVac+* greatly enhances the level of service you can provide to your patients in today's competitive market.

As with all of our products, MedRx is pleased to provide the top notch service and support that you have come to expect. Our associates constantly strive to see that every effort is put forth in satisfying your needs and requests. I can assure you we will not waiver from this objective as we move into the future. We are aware of what has made us one of our industry's leading equipment suppliers: *QUALITY, VALUE, SUPPORT AND SERVICE*.

Please accept my sincere thanks for your confidence in MedRx products and service.

Ron Buck, President

# UltraVac+

# Single Use Vacuum Want Tips

**Single use for the UltraVac+ tips** ensure the highest level of sanitation. Cross contamination is eliminated with single use. To ensure proper seal MedRx supplied tips are recommended.



Part# 8514319
Vacuum Tip #15 Gauge
with Safety Lock Attachment
.059" x 1"



Part# 8514321 Vacuum Tip #18 Gauge with Safety Lock Attachment .038" x 1"



Part# 8514325
Vacuum Tip #20 Gauge
with Safety Lock Attachment
.025" x 1"



Part# 8514320 Vacuum Tip #15 Gauge with Safety Lock Attachment .059" x 1/2"



Part# 8514322 Vacuum Tip #18 Gauge with Safety Lock Attachment .038" x 1/2"



Part# 8514324 Vacuum Tip #20 Gauge with Safety Lock Attachment .025" x 1/2"



Call Your Local Distributor To Order Today!

# UltraVac+

# Replacement Parts

Give us a call when you need parts for your UltraVac+



Part# 8505126
Drying Chamber Filter
Part# 8506932
Vacuum Wand Filter



Part# 8111310 Drying *Chamber Cup* 



Part# 8111307 4-Piece Cleaning Tool Kit



Part# 8111305 UltraVac+ Pressure Wand Assembly



Part# 8507302 UltraVac+ Vacuum Wand Assembly



Call Your Local Distributor To Order Today!

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The UltraVac+ was designed to give dispensers and technicians a functional tool for repairing, restoring and maintaining hearing aids. It is easy to use which makes it ideal for those who may just be getting started but powerful enough for the demands of the most experienced technician.

- ► Caution: This product is designed for use on hearing aids. DO NOT USE ON THE HUMAN EAR.
- ► **Caution:** To avoid the risk of electrical shock or serious injury do not remove the white cover of this equipment. Service should be performed by factory trained and authorized personnel.

#### RECOMMENDED PROCEDURE

We recommend you follow the restoration steps listed below to get the maximum benefit from the UltraVac+.

- Hearing Instrument Evaluation It is good practice to examine the
  instrument for obvious defects and discuss with your patient any
  concerns they have with the operation of the hearing instrument.
  Counsel the patient on what you will be doing to improve or correct the
  problem. Test the condition of the battery and if it is weak or dead,
  replace it. If the hearing instrument is dead or damaged, have the
  patient acknowledge this before proceeding.
- Remove Visible Wax Clean any large, visible, accumulation of cerumen from the instrument using the cleaning tool kit bundled with the UltraVac+.
- **Drying Chamber** Place the hearing instrument in the Drying Chamber to remove moisture. (See pg. 7)
- Vacuum Wand Vacuum debris from the receiver tube, microphone
  inlet, vent and battery compartment of the hearing instrument. It is a
  good practice to do this even if you do not see any debris. Many of the
  component failures in a hearing instrument are caused by accumulation
  of micro-particles of debris. (See pg. 8)
- Pressure Wand Use the pressure wand to clear obstructed vacuum wand tips and to blow debris from the hearing instrument. (See pg. 9)

## YOUR SYSTEM INCLUDES

- UltraVac+ Base Unit
- Pressure Wand with Hose
- Vacuum Wand with Hose and Filter
- Drying Chamber Cup and Filter
- 6 Vacuum Wand Tips
- Cleaning Tool Kit
- Operator Instruction Manual On/Off switch on back of unit



#### **BASIC OPERATION**

## Getting To Know Your UltraVac+

- The UltraVac+ is divided into three sections: Pressure Wand, Vacuum Wand and Drying Chamber.
- The display panel indicates the vacuum level of the Drying Chamber and time remaining during use.
- The function toggle switch on the front panel is labeled to easily indicate which feature is being used.
- The Vacuum & Pressure Wands work simultaneously.
- The Wands and the Drying Chamber cannot be used simultaneously. By turning on one of these functions, the other will automatically be turned off.
- The power switch, power cord attachment and fuse are located on the rear panel of the unit.
- We recommend the system be turned off overnight and when not in use for extended periods of time.

# Using the DRYING CHAMBER

**The Drying Chamber** – Displaces moisture trapped within the hearing instruments.

**To USE:** The power switch is located on the rear panel of the unit. To use the Drying Chamber, place the hearing instrument on the black pad and cover it with the Drying Chamber cup. You can place two ITEs or one BTE, with earmold, in the chamber at one time.

Position the WAND/CHAMBER switch to the CHAMBER setting. Press the START switch.

Press firmly on the Drying Chamber cup to ensure a good seal. The approximate vacuum level in the chamber will be indicated on the display panel.

As the pump runs, moisture is displaced from inside the hearing instrument. Make sure the Drying Chamber cup is centered on the black Drying Chamber pad. It may be necessary to apply light pressure on the top of the cup to attain a proper vacuum. This is very important for the DRYING CHAMBER to work properly. A CHECK VACUUM message will appear on the display panel if a proper seal is not attained.

The pump will automatically turn off at the end of the 4 minute cycle. A message TOGGLE TO VENT will appear on the display panel.

Move the WAND/CHAMBER switch to the WAND position to release the vacuum.

Remove the hearing instrument(s) from the Drying Chamber upon completion.

The cycle can be ended prior to the 4 minute time limit by pressing the STOP switch. The chamber can then be vented as described above or restarted with the time remaining on the display.

Moving the toggle switch to the WAND position during the CHAMBER operation will vent the chamber and turn the pump off. Press START to resume WAND operation.

See the *Care and Maintenance* section to learn how to change the Drying Chamber filter.

# **Using the VACUUM WAND**

**The Vacuum Wand** – Used to extract ear wax and debris from receiver tubes, microphone tubes, vents and battery compartments of the hearing instruments.

**To USE:** The power switch is located on the rear panel of the unit. To activate the Vacuum Wand, toggle the WAND/CHAMBER switch to the WAND setting, press the START switch. The unit will now provide a continuous suction to the Vacuum Wand.

Press and turn an appropriate Vacuum Wand Tip onto the Vacuum Wand's white luer end. Use the wand to vacuum ear wax and debris from the receiver tubes, microphone inlets, vents and battery compartments on the hearing instruments. Care should be taken so the tubes or components are not pushed in or dislodged.

If the Drying Chamber was in use when moving the toggle switch to the WAND setting, it will be necessary to press START again to restart the pump.

Press the STOP switch when finished.

DO NOT OPERATE THE VACUUM WAND WITHOUT THE FILTER ASSEMBLY.

## Using the PRESSURE WAND

**The Pressure Function** – Used to blow air through the Pressure Wand to clear clogged Vacuum Wand Tips, and to blow debris from the receiver tubes, microphone inlets, vents and battery compartments on the hearing instruments.

**To USE:** The power switch is located on the rear panel of the unit. To activate the Pressure Wand, toggle the WAND/CHAMBER switch to the WAND setting, press the START switch. Press STOP when finished. (The Pressure Wand is active at the same time as the Vacuum Wand).

If a tip on the Vacuum Wand is clogged, move it to the Pressure Wand and turn the pump on. If the wand tip cannot be cleared using the pressure function, turn the unit off and remove the tip from the wand. A specially designed tool for cleaning Vacuum Wand Tips is included in the tool kit that came bundled with your UltraVac+. This tool is marked with a red dot.

The Pressure Wand can be removed from the coupling on the base unit by pushing in the retaining ring and gently pulling on the tubing. To reinstall, simply insert the tubing back into the coupler.

#### CARE AND MAINTENANCE

The UltraVac+ has been engineered to provide years of trouble-free service. There are no field serviceable components inside the cabinet.

Put on gloves and use protective eyewear during the cleaning procedure.

# Cleaning the UltraVac+ Cabinet

Supplies needed: Soft Cloth & Mild Detergent.

- 1. To keep your UltraVac+ looking brand new, wipe the cabinet and control panel with a soft cloth.
- 2. Stubborn stains may be removed by using a cloth moistened with water and a mild detergent.

# **Cleaning the Drying Chamber**

Supplies needed: Alcohol Pads.

- 1. The drying cup and chamber bottom may be cleaned with Alcohol Pads.
- 2. Run the system for one drying chamber cycle to remove any residual alcohol.

Do not allow debris or fluid to enter the Drying Chamber air inlet port.

# **Changing the Drying Chamber Filter**

Replace filter when significant discoloration is visible.

Supplies needed: 1-Drying Chamber Filter, Tweezers, All Purpose Glue (e.g. Elmer's), Alcohol Pads

The drying chamber filter is located in the center of the black rubber chamber base.

- 1. Using tweezers grab and pull the filter to remove.
- 2. Clean the chamber bottom with Alcohol Pads
- 3. Place two or three dots of All Purpose Glue (e.g. Elmer's) on the edge of the new filter. NOTE: Too much glue will clog the fabric.
- 4. Use tweezers to insert the glued filter.

# Cleaning the Vacuum Wand Filter Assembly and Changing the Filter

## Replace filter when significant discoloration is visible.

# Supplies needed:

- 1-Vacuum Wand Filter
- Isopropyl Alcohol 70% by volume (preferred) or Hydrogen Peroxide disinfectant – 3%
- Alcohol pads
- Cotton swabs
- Disposable Gloves
- Eye Protection

The filter has been located on the end of the Vacuum Wand for ease of service.

- 1. To replace the filter and clean the filter assembly, grasp the orange adapter and unscrew the white luer from the filter assembly. Grip the grey end cap of the filter assembly, rotate it to the left and pull.
- 2. Remove the used filter. Use the cotton tipped applicators to remove wax and debris from inside the filter assembly body and white luer.
- 3. Clean the exterior of the filter assembly with Alcohol Pads.
- 4. If using alcohol to flush the filter assembly body, make sure the inside is dry before replacing the filter.
- 5. Replace the filter with the new one. Replace the grey end cap by pressing in and rotating it to the right. Screw the white luer back onto the orange adapter.
- 6. The filter must be in place for the Vacuum Wand to operate properly. You must use the same type of filter or the performance of the vacuum will be affected.
- 7. Should condensation develop in the Vacuum Hose Filter Assembly, run the system for 10 minutes.

# Vacuum Wand Tips SINGLE-USE is Recommended for Vacuum Wand Tips

Single-use for the Vacuum Wand Tips ensures the highest level of sanitation. Cross contamination is eliminated with single use. To ensure a proper seal MedRx supplied tips are recommended.

Call your local distributor to order more Single-Use Vacuum Wand Tips. See page 3 for part numbers.

#### Cleaning & Disinfection of Vacuum Wand Tips

(Not applicable with single use)

## Supplies needed:

- Isopropyl Alcohol 70% by volume (preferred)
   or Hydrogen Peroxide disinfectant 3%
- 10cc or larger Syringe
- Soaking container for the tips
- Alcohol pads
- Disposable Gloves
- Eye Protection
- 1. Put on gloves and use protective eyewear during the cleaning procedure.
- 2. Wipe any visible debris from the outside of the Vacuum Wand Tips with alcohol pads.
- 3. Fill the syringe with alcohol and squirt it through the tips until no debris is visible.
- 4. When necessary, soak the tips in alcohol for 10-20 minutes.
- 5. Remove the tips from the solution, blow out any retained solution with air then allow to dry.
- 6. Remove and discard gloves, WASH hands.

# **Acceptable Cleaning Agents**

- Isopropyl Alcohol 70% by volume (preferred)
- Hydrogen Peroxide disinfectant 3%

#### PRECAUTIONS FOR TRANSPORT

When transporting the UltraVac+, use the system's original packing case or similar packaging. Care must be taken to protect it from shock and mishandling.

#### **SPECIFICATIONS**

Power Requirements 100-240V, 50/60Hz

Power Consumption <100 watts

Fuse 2.5A @ 100-240V

Operating

Temperature 32° to 120° F • 0° to 50° C

Weight Approx. 11 lbs • 5 kg

Dimensions 11.25" x 12" x 6.25" (LxWxH)
Approx. 29cm x 31cm x 16cm (LxWxH)

Vacuum Tips 2-#15, 2-#18 and 2-#20

gauge w/Safety Lock attachment

**Drying Chamber** 

Cycle Time 4 minute cycle w/ auto shut-off

Vacuum Wand Continuous use

Pressure Wand Continuous use

# **TROUBLESHOOTING GUIDE**

SYMPTOM	REMEDY
Unit won't come on.	-Check fuse located on rear panelCall your local distributor for service.
Vacuum Wand is not working.	-Ensure that the switch is in the WAND position.
	-Check to make sure hose is connected properly in panel.
	-Check to make sure filter is properly attached and not blocked.
	<ul> <li>-Check to make sure tips on either hose are not blocked; use the pressure function to clear tip.</li> </ul>
	- Call your local distributor for service.
Drying Chamber is not working.	-Ensure that the switch is in the CHAMBER position.
	-Check to make sure vacuum cup does not leak around pad or has any cracks.
	- Call your local distributor for service.

→ Caution: To avoid the risk of electrical shock or serious injury do not remove the white cover of this equipment. Service should be performed by factory trained and authorized personnel.

#### LIMITED WARRANTY

MedRx, Inc warrants this product to be free from defects in material and workmanship for two years from the time of purchase. If this system fails to perform as specified during this period, the purchaser is responsible for calling MedRx at +49 30 70 71 46 43. The company's representative will advise the owner to either return specific components or the entire system to:

MedRx International c/o MAICO Diagnostics GmbH Sickingenstr. 70-71, 10553 Berlin, Germany

MAICO will repair or replace any defective devices, fully test the system and/or components and ship the system promptly back to the owner. There is no cost for the repair or return shipping, provided the system is two years old or less and has not been misused, abused or damaged. Such damage includes, but is not limited to, dropping, exposure to excessive heat greater than 100°F and water/liquid damage.

Repair or replacement of the system as provided under this warranty is the sole and exclusive remedy of the purchaser. MedRx shall not be liable for any consequential or incidental damages or for breach of any express or implied warranty. Except to the extent of applicable law, any implied warranty, merchantability or fitness of this product is limited to the duration of this warranty.

MAICO will, at its discretion, service and repair out of warranty products at the purchaser's request, charging for parts and labor as necessary.