

# **MedRx**

## **ULTRA VAC with Pulse Power Vacuum Wand**



**Hearing Aid Restoration System**

Operating Instructions



Thank you for choosing the MedRx *Ultra Vac* with our patented *PULSE POWER* feature. We feel we have designed a product that best fits the needs of today's professional hearing health care provider. The MedRx *Ultra Vac* 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.

A handwritten signature in black ink, appearing to read "Ron", with a large, sweeping flourish above the name.

Ron Buck,  
President



## TABLE OF CONTENTS

Controls and Components .....	6
Basic Operation .....	7
Recommended Procedure.....	8
Drying Chamber Filter .....	9
Change Drying Chamber Filter .....	9
Vacuum /Pressure Wand .....	10
Care and Maintenance .....	11
Troubleshooting Guide .....	12
Warranty and Service .....	13
Specifications .....	14

# **MedRx<sup>®</sup>**

**888-392-1234 • [www.medrx-usa.com](http://www.medrx-usa.com)**

# CONTROLS AND COMPONENTS

Your *Ultra Vac* System Includes:

- *Ultra Vac* Base Unit
- Vacuum Wand with Hose
- Drying Chamber Cup
- 6 Vacuum Wand Tips
- Operator Instruction Manual
- Cleaning Tool Kit

See back cover for details

The cord attachment and fuse are located on the rear panel of the unit. The front panel of the *Ultra Vac* is divided into two sections. Vacuum/Pressure Wand and Drying Chamber. The operation of each section is explained in detail in the appropriate section of this manual.

► **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 bottom panel of this equipment. Service should be performed by factory trained and authorized personnel.

## BASIC OPERATION

The *Ultra Vac* 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 be just getting started and powerful enough for the demands of the most experienced technician. A vacuum gauge has been mounted on the front panel to indicate the vacuum pressure of the Drying Chamber during use. The functions and applications for this product are:

**Vacuum Wand** - Used to extract ear wax and debris from inside receiver tubes, microphone tubes, vents and battery compartments.

**Pulse Power** - This feature dramatically improves the performance of the Vacuum Wand for attacking deep or stubborn debris accumulations.

**Pressure Function** - Used to blow air through the vacuum wand and to clear clogged cleaning tips.

**Drying Chamber** - Displaces moisture trapped within a hearing aid.

The system is turned on by pressing the function switches on the front control panel. The operation of each function is explained later in this manual. We recommend the system be turned off when not in use for extended periods of time (overnight).

The function switches on the front panel are labeled to easily indicate which feature is being used. To maximize performance, the Drying Chamber and Vacuum Wand cannot be used simultaneously. By turning on one of these functions, the other will automatically be turned off.

## RECOMMENDED PROCEDURE

We recommend you follow the restoration steps listed below to get the maximum benefit from the *Ultra Vac*.

**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 aid. Counsel patient on what you will be doing to improve or correct the problem. If possible, test the condition of the battery and if it is weak or dead, replace it. If the aid is dead (or damaged), have the patient acknowledge this before proceeding.

**Remove Visible Wax** - Using the cleaning tool kit provided with the *Ultra Vac*, clean any large, visible accumulation of cerumen from the instrument.

**Drying Chamber** - Place it in the Drying chamber to displace and evacuate moisture vapor from within the aid.

**Vacuum Wand** - Use the Vacuum Wand to remove wax and debris from the receiver tube, microphone inlet and battery compartment. It is a good practice to do this even if you do not see any debris. Many of the component failures in an aid are caused by accumulation of micro-particles of debris. For deep or stubborn accumulation, use *PULSE POWER* mode for improved vacuum wand performance.

**Pressure Function** - Use this function to clear obstructed vacuum needle tips and to blow debris from vent tracks and battery compartments.

## DRYING CHAMBER

To use the **Drying Chamber**, place the hearing aid (including earmold if BTE) on the pad and cover it with the vacuum cup. You can place two ITE's or one BTE with mold in the chamber at a time. Press the VACUUM/OFF/PRESSURE switch to the VACUUM setting. Press the VACUUM WAND/DRYING CHAMBER switch to the **DRYING CHAMBER** setting. The internal four minute timer will be set and the pump will immediately start. *If the pump does not start*, cycle the VACUUM WAND/DRYING CHAMBER switch one time to reset the timer. Press firmly on the vacuum cup to assure a good seal, which will be indicated by the panel mounted vacuum gauge.

As the pump runs, it displaces moisture vapor from inside the hearing aid. Make sure the chamber cup is centered on the pad. Again, 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.

The pump will automatically turn off and the vacuum will be released from the chamber at the end of the cycle. Remove the hearing aid(s) from the chamber upon completion.

Do not attempt to use the VACUUM WAND while the DRYING CHAMBER is in use. If you turn the VACUUM WAND on, it will automatically turn the DRYING CHAMBER off.

## CHANGE DRYING CHAMBER FILTER

When significant discoloration is visible change the Drying Chamber Filter. Using tweezers grab and pull filter to remove. Place two or three dots of Elmer's All Purpose Glue on the edge of new filter. Use tweezers to insert the glued filter. NOTE: Too much glue will clog the fabric.

## VACUUM WAND with PULSE POWER

To activate the **Vacuum Wand**, press the VACUUM /OFF/PRESSURE switch to the VACUUM setting, press the *PULSE POWER/CONSTANT* switch to the CONSTANT setting and press the VACUUM WAND/DRYING CHAMBER switch to the **VACUUM WAND** setting. The unit will now provide a continuous suction to the Vacuum Wand. Use the wand to vacuum ear wax and debris from the receiver tube, microphone inlet, vent and battery compartment of the aid. Be sure the Drying Chamber is not in use before turning on the Vacuum Wand as it will automatically turn the Chamber off.

Choose the appropriate vacuum tip which will allow you to insert it into tube openings, vents and compartments. Care should be taken so the tubes or components are not pushed in or dislodged.

For deeply embedded accumulations of debris, switch the *PULSE POWER/CONSTANT* switch to **PULSE POWER**. In this mode, the system will steadily pulse the suction at the tip of the wand creating additional vacuum pressure.

## PRESSURE WAND

Press the VACUUM/OFF/PRESSURE switch to the **PRESSURE** setting and the VACUUM WAND/DRYING CHAMBER switch the VACUUM WAND setting to activate the pressure function. Use this mode to clear a plugged vacuum tip or if you want to use the wand to blow air. If the vacuum tip cannot be cleared using the pressure function, turn the unit off and remove the tip from the wand. A specially designed tool (marked with red) for cleaning vacuum tips is included in the enclosed too kit.

The wand assembly 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 *Ultra Vac* has been engineered to provide years of trouble-free service. There are no field serviceable components inside the cabinet.

### Changing the Filter

The particulate filter has been located on the front panel for ease of service. It should be replaced when significant amounts of debris are visible in it. To replace the filter, disconnect it from the mount by pushing the clear cover up and rotating it to the left, then pull down. Change the filter element and rubber o-ring with a new one. Replace the cover by pushing the clear cover up and rotating it to the right. **The filter must be in place for the Vacuum Wand to operate properly.** You **must** use the same type of filter and o-ring or the performance of the vacuum will be affected.

Should condensation develop in the particulate filter of Vacuum Wand tube, run the system for 10 minutes to remove.

### Cleaning

To keep your *Ultra Vac* looking brand new, wipe the cabinet and control panel with a soft cloth. Stubborn stains may be removed by using a cloth moistened with water and mild detergent. Do not allow debris or fluid to enter the Drying Chamber air inlet port.

### Cleaning the Wand

Unscrew the white luer and the black barb adapter from the wand body. Use cotton tipped applicators to remove wax and debris from inside the wand body. If using water or alcohol to flush the body, insure inside is dry. Screw the white luer and the black barb adapter to the appropriate ends.

### Precautions for Transport

When transporting the *Ultra Vac*, use the systems original packing case or similar packaging. Care must be taken to protect it from shock and mishandling.

# TROUBLESHOOTING GUIDE

<b>SYMPTOM</b>	<b>REMEDY</b>
Won't come on.	<ul style="list-style-type: none"><li>-Check fuse located on rear panel.</li><li>-Call for service.</li></ul>
Vacuum Wand not working.	<ul style="list-style-type: none"><li>-Check to make sure hose is connected properly in panel.</li><li>-Check to make sure filter is properly attached and not blocked.</li><li>-Check to make sure tip is not blocked, use the pressure function to clear tip.</li><li>-Call for service.</li></ul>
Drying Chamber not working.	<ul style="list-style-type: none"><li>-Recycle the timer by moving the Drying Chamber switch to Vacuum and then back to Drying Chamber.</li><li>-Check to make sure vacuum cup does not leak around pad or has any cracks.</li><li>-Call for service. 888-392-1234</li></ul>

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

# WARRANTY AND SERVICE

## LIMITED WARRANTY

MedRx, Inc warrants the Ultra Vac to be free from defects in material and workmanship for one year from the time of purchase. If this system fails to perform as specified during this period, the purchaser is responsible for calling MedRx at (727) 584-9600. The company's representative will instruct the owner to either return specific components or the entire system to MedRx, Inc., 1200 Starkey Rd., #105, Largo, FL 33771.

MedRx will repair or replace any defective parts, fully test and calibrate the system with prompt return shipment. There are only shipping costs to the owner for this warranty service, provided the system is one (1) year old or less and the system had not been misused or abused. Misused and abused includes, but not limited to; dropping, exposure to excessive heat (greater than 120 degrees 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 expressed 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.

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

# SPECIFICATIONS

Power requirements	110-120 VAC, 50-60 Hz 220-240 VAC, 50-60 Hz
Power Consumption	<100 watts
Fuse	1.25 amp SB 5x20mm 2.50 amp SB 5x20mm
Operating Temperature	0° to 50° C (32° to 120° F)
Weight	Approx. 8.5 lbs.
Dimensions (approx.)	10.5" (w) x 6.25" (h) x 12" (d)
Particulate Filter	134SA
Vacuum Tips	#14, #15, #18 and #20 gauge w/SafetyLok attachment
Drying Chamber cycle time	4 minutes with auto shut-off & auto pressure release
Vacuum/Pressure Wand	Continuous use with internal thermal protection

# The UltraVac System Includes:

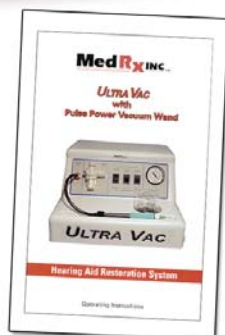


UltraVac  
Base Unit



Vacuum Wand  
with Hose

Operator  
Instruction Manual



4 Vacuum Wand Tips &  
Drying Chamber Filter



Cleaning Tool Kit



Drying Chamber



Power Cord