

**Model – HeteroNeb V2**      certified



Thank you very much for purchasing the HeteroNeb V2.

Be sure to read this User Manual thoroughly before use.

Keep this Instruction Manual at hand for your future reference.

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Thank you for purchasing our Dual Port Nebulizer.

The first DUAL PORT NEBULIZER with Dual Filtration.

**First Stage: HEPA Filter**

*(Having minimum size particle removal efficiency of no less than 99.9% for 0.3 microns particles)*

**Second Stage: Ultra Violet Filter**

*(Having the efficiency of killing micro-organisms like bacteria, virus etc)*

This product was developed in conjunction with respiratory therapists for the successful treatment of asthma, allergies and other respiratory disorders. The compressors forces air through the tubing to the nebulizer jar or chamber. When the air enters the nebulizer jar or chamber, it converts the prescribed medication into mist of microscopic droplets that are inhaled.

Note: This machine is a medical device and for hospitals use only.

Read all the information in the user manual thoroughly before using the machine. When using an electrical product, especially when children are present, basic safety precautions should always be followed including the following:

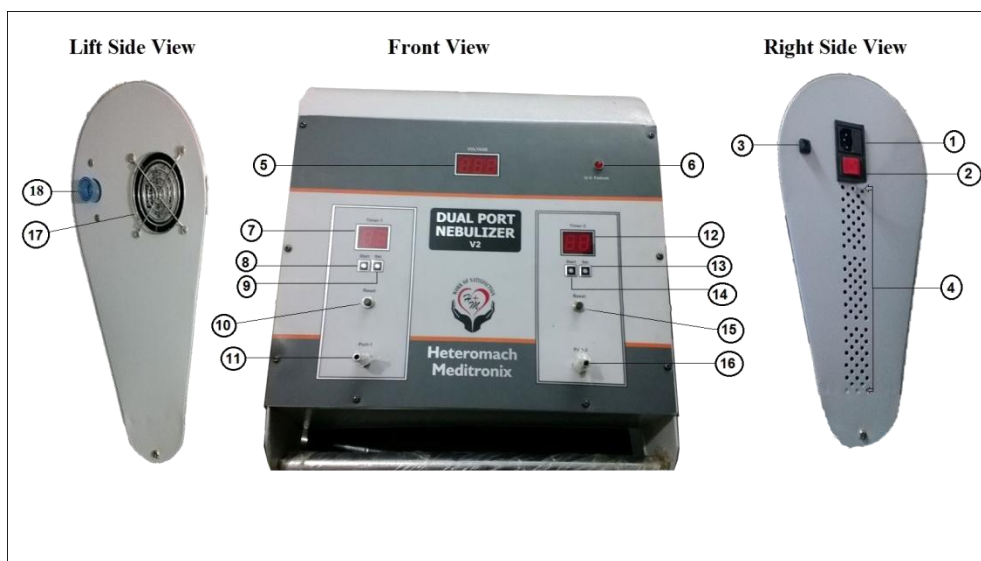
**CAUTION: Failure to read and observe all safety precautions could result in personal injury or equipment damage.**

- Disinfect the unit before using the device if the device has not been used for a long period of time, or if more than one person uses the same device.
- For type, dose and regimen of medication follow the instructions of your Doctors.
- Provide close supervision when this device is used by, on, or near children or invalids.
- Keep the device out of the reach of infants and children. The device may contain small pieces that can be swallowed.
- Do not use the device while sleeping or if drowsy.
- Operate the device only as intended. Do not use the device for any other purpose.
- **Changes or modifications not approved by Heteromach Meditronix will void the user warranty. Do not disassemble or attempt to repair the unit or components.**

**Use only authorized parts and accessories.**

**WARNING: Risk of electrical shock**

- Do not throw water or any other liquid on machine.
- Do not operate the machine unattended.
- Never touch the machine with wet hands.
- Do not operate the machine with a damaged cord or plug.
- Do not block the air openings. Never place the machine where the air opening may be obstructed during operation.
- Keep the power cord away from heated surfaces.
- Plug the machine into the appropriate voltage outlet.
- Unplug the machine after use.



1. Main chord socket
2. Main Switch (ON/OFF)
3. By-Pass Switch (For emergency use only)
4. Ventilation Slots
5. Voltage Meter (Input)
6. U.V. Failure Indicator (Indicate when U.V. Filter not work)
7. Timer-1 (For Port-1)
8. START Switch (To start treatment for Port-1)
9. SET Switch (To set treatment time for Port-1)
10. RESET Switch (To stop or reset treatment time for Port-1)
11. Port - 1 (Air Tubing connector for Port-1)
12. Timer-2 (For Port-2)
13. SET Switch (To set treatment time for Port-2)
14. START Switch (To start treatment for Port-2)
15. RESET Switch (To stop or reset treatment time for Port-2)
16. Port - 2 (Air Tubing connector for Port-2)
17. Cooling Fan
18. HEPA Filter (Air Inlet)

The compressors have a thermal protector which will turn the power off before the compressors overheat. If the thermal protector shuts the power off:

1. Turn the machine off.
2. Unplug the power cord from the electrical outlet.
3. Make sure the air slots or ventilation slots on the machine are not obstructed.
4. Wait 30 minutes for the motor to cool.
5. Restart the machine.

**Note: If you still experiencing problems, contact company for assistance.**

**CAUTION: Do not push the switch if U.V. filter is working.**

If U.V. Failure indication with alarm occurs, then the machine stops functioning automatically.

Only the input voltage indicates in a display on the top of the front panel of machine.

Then only push the by-pass switch on the right hand side of the user (above the power switch).

This switch allow the machine functioning using the first stage filtration.

After doing this use the machine as per instructions given in this user manual and contact the company for U.V. replacement.

Clean and disinfect the nebulizer jar or chamber and mask before using the machine if they have not been used for a long period of time, or if more than one person using the same device.

*For directions on cleaning and disinfecting refer page no ..... in this instruction manual.*

1. Place the machine on a table or other flat stable surface. *(if not mounted on trolley)*

**CAUTION: Make sure the power switch is in the off position.**

2. Remove the nebulizer jar or chamber, Aerosol mask, and air tubing from the HeteroNeb Kit.
3. Attach one end of the air tubing to the port-1 or port-2 as required located on the front panel of the machine.
4. Be sure that the air tube attached properly to the machine.
5. Attach the other end of the air tubing to the base of the nebulizer jar or chamber.
6. Do not bent the air tubing, it will constrict the airflow in the air tubing.
7. Remove the cap of nebulizer jar or chamber with an anti-clockwise rotation.
8. Add the correct amount of prescribed solution for medication to the nebulizer jar or chamber.

1. Attach cap to nebulizer jar or chamber with a clockwise rotation.
2. Securely attach the mask to the top section of the nebulizer jar or chamber.
3. Plug the power cord into the correct voltage electrical outlet. Switch ON the machine.
4. Place the mask on the patient's face with the elastic strap below the ears and around the neck.
5. Shape the metal strap on the mask to fit the face.
6. Set the time for treatment by pressing the SET button below the timer-1 or timer-2 as required.
7. Begin treatment by pressing the START button of respective timer.
8. After the time completed the machine stops automatically.
9. Clean and store the nebulizer jar or chamber and mask as directed in this user manual.

Following the cleaning instructions after each use will prevent any remaining medication in the nebulizer jar or chamber from drying resulting in the device not nebulizing effectively.

**Important: Do not start operation before the cleaned parts are completely dried.**

1. Remove the mask from the nebulizer jar or chamber.
2. Disconnect the air tubing from the nebulizer jar or chamber.
3. Gently twist the nebulizer jar or chamber in anti-clockwise rotation.
4. Rinse both sections of the nebulizer jar or chamber and mask with hot tap water.
5. Dry with clean paper towels or allow the parts to air dry in a clean environment.
6. Assemble the device and store it in a dry place.



Two different methods of disinfecting the parts may be used. Disinfecting daily by soaking in a vinegar solution or using a commercially available medical disinfectant. If doctor or respiratory therapist specifies a different cleaning procedure follow their instruction.

**Disinfect the nebulizer jar or chamber and the mask after the last treatment of each day.**

### **VINEGAR METHOD**

1. Make a solution of 1 part white vinegar and 3 parts distilled water. Make enough solution to submerge the parts.
2. Remove the mask from the nebulizer jar or chamber.
3. Disconnect the air tubing from the nebulizer jar or chamber.
4. Gently twist the nebulizer jar or chamber with anti-clockwise rotation.
5. Wash both sections of the nebulizer jar or chamber and mask in warm water and mild detergent and rinse in hot tap water thoroughly.
6. Submerge the parts in the white vinegar and distilled water solution for 30 minutes.
7. Remove the parts and discard the solution. Rinse the part with hot tap water.
8. Dry with clean paper towels and allow the parts to air dry in a clean environment.
9. Assemble the device and store it in a dry place.

### **MEDICAL DISINFECTANT METHOD**

Consult doctor or respiratory therapist regarding the use of medical disinfectant cleaners.

Carefully follow the instructions supplied by the manufacturer of the medical disinfectant.

To keep your device in the best condition and protect the machine from damage follow these directions:

- Do not subject the device or the parts to any strong shocks such as dropping the device on the floor.
- Do not store the machine in extreme hot or cold temperatures, high humidity or under direct sunlight.
- Use only Heteromach Meditronix Parts and Accessories.

### **CLEANING THE MACHINE**

Clean the casing of machine daily by using a soft cloth moistened with water or a mild detergent.

Wipe the casing and immediately dry using a soft clean cloth.

**CAUTION: Do not rinse or immerse the machine in any liquid.**

**Do not clean using abrasive cleaners.**

### **FILTER CHANGE**

HeteroNeb V2 has double stage filtration system.

- First Stage: HEPA filter, needs to be replace after 10-12 months
- Second Stage: U.V. filter, needs to be replace after 30 months.

**CAUTION: Do not substitute any other filter.**

**Do not operate without filter.**

### **IMPORTANT:**

- **Do not attempt to lubricate any parts. This machine does not require oil.**
- **Maintenance must be performed by an authorised service enter.**
- **Unauthorised service will void the user warranty.**

Against electric shock	Internally Powered equipment
Power	220 VAC, 50 HZ
Current for each compressor	1 A
Compressor Type	Piston based compressor with in built thermostat.
Medicine Capacity (Each Port)	2 – 13 ml (cc)
Particle Size (Each Port)	0.5 – 8.0 µm
Average Nebulization rate (Each Port)	0.2 ml/min
Compressor Pressure Range (Each Port)	30-36 PSI (210-250 KPA/2.1-2.5 bar)
Operating Pressure Range (Each Port)	8-16 Psi (50-100 KPA/0.5-1 bar)
Liter flow range (Each Port)	6-8 lpm
Filters	<p>Double Stage Filtration</p> <ul style="list-style-type: none"> <li>• <b>HEPA filter</b> (Having minimum size particle removal efficiency of no less than 99.9% for 0.3 microns particles)</li> <li>• <b>U.V. filter</b> (Having the efficiency of killing micro-organisms like bacteria , virus etc)</li> </ul>
Timer	Individual Programmable OFF Timer for each port (Digital)
Operating Temp. Range	2°C – 45°C
Operating Humidity Range	10-95% RH
Safety Features	<ul style="list-style-type: none"> <li>• Compressors Stop Automatically if U.V. fails</li> <li>• U.V. Failure Indication with Alarm</li> </ul>
By-Pass Switch	For Emergency use after U.V. Failure

**The following consumable parts and accessories can be purchase from the company.**

#### HEPA Filter

1. Ultra Violet (U.V.) Filter
2. HeteroNeb Kit, includes:
  - Nebulizer Jar or Chamber (1 No's)
  - Air Tubing (1 No's)
  - Mask (1Nos)
3. Detachable Trolley (*movable* )
4. Fix Trolley (*movable*)

**IMPORTANT:** Specifications and appearance are subject to change without notice for purpose of improvement



## **Heteromach Meditronix**

(ISO 9001 : 2008 & ISO 13485 : 2003 Certified)

886, Pkt.-2, Paschim Puri, Delhi-110063

Ph. : 09818935748, 09818935718

Email : [service@heteromachmeditronix.com](mailto:service@heteromachmeditronix.com),

[sales@heteromachmeditronix.com](mailto:sales@heteromachmeditronix.com)

Website : <https://www.heteromachmeditronix.com>