VICTORIAN RESPIRATORY SUPPORT SERVICE

AUSTIN HEALTH

VPAP IV S/T MACHINE with H4i HUMIDIFIER

OPERATION AND TROUBLESHOOTING

Height: 11.2cm

Width: 16.4cm

Depth: 14.5cm

Weight: 1.3kg

The ResMed VPAP IVST is a portable ventilator.

VPAP machines are used by people who need breathing support during sleep.

TYPES OF VENTILATION (MODES):

Spontaneous mode: the machine will deliver breaths in response to your breathing efforts.

Timed mode: the machine will deliver a set number of breaths every minute.

S/T mode: the machine will deliver breaths at a set rate and will also respond to your breathing efforts.
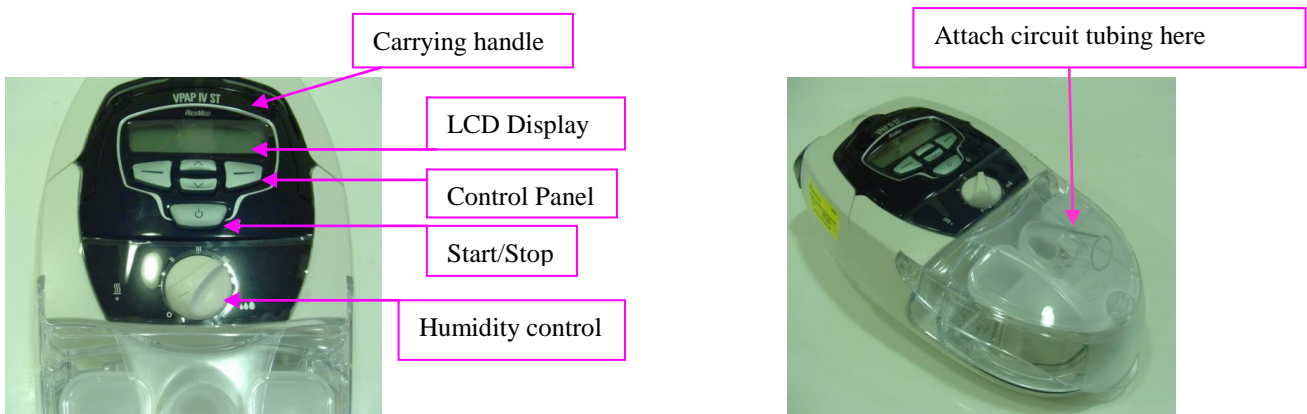
POWER SOURCE:
The VPAP machine should be operated from mains power. An external battery can also be purchased.

EXTERNAL BATTERY:
The VPAP may be connected to a 12 volt external battery through a power inverter. This will provide up to 8 hours of operation – please contact VRSS Outreach for more information.
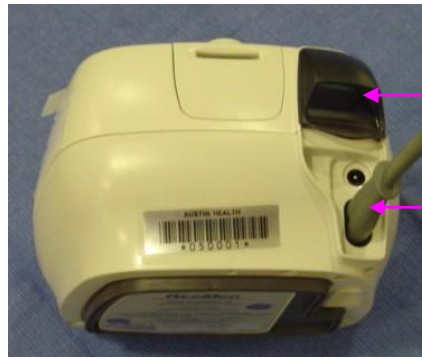
FRONT PANEL:
- Black carrying handle.
- LCD screen – displays settings when in operation.
- VPAP Control panel – On/Off, Up/Down, and Left/Right buttons.
- Humidifier temperature control
- 22mm Air outlet.

Carrying handle

LCD Display

Control Panel

Start/Stop

Humidity control

Attach circuit tubing here

REAR PANEL:

- Air inlet and filter
- DC power socket
- AC power socket

Air inlet and filter

AC Power socket

OPERATION:

Never move the breathing machine when there is water in the humidifier chamber. Spilling water into the machine may cause mechanical failure. **ALWAYS remove and empty the chamber before moving the machine.**

- Plug the power cord into the rear of the machine.

- Remove the water chamber by lifting lid

- Fill with warm tap water, put back on to hotplate and close the cover.

- Connect the circuit tubing to the air outlet on the humidifier cover and to the mask.
- Put mask on as described by manufacturer.
- Press the START/STOP button to turn the machine on.
- Adjust the humidifier temperature as required.

CLEANING & MAINTENANCE:

Daily:
- If using a humidifier; disconnect the tubes, remove the chamber and empty the water; then remove the base of the chamber and dry both parts before reassembling them.
- Fill the chamber with WARM water before placing it back on the heater base when you next use the machine.

Weekly:
- Dust the machine with a slightly damp cloth, ensuring that no water gets into the power socket on the back of the machine.
- Remove humidifier chamber, empty the water and disassemble chamber.
- Wash all items in warm water using mild unperfumed soap and rinse thoroughly.
- Reassemble before next use of the VPAP machine.

Periodically:
- Check the filter every month and change it if it is dusty.
- Change the filter every 2-3 months, more frequently if in a dusty environment.
- Place the new filter with the blue tinted side facing out.

SERVICING:

The VRSS Outreach Service staff will contact you to make arrangements for routine annual servicing & performance test.

HUMIDIFIER TROUBLESHOOTING GUIDE

Problem	Possible Cause	Corrective Action
Leaking water chamber	Chamber incorrectly assembled	Reassemble chamber Replace "O" ring (seal)
	Chamber cracked	Replace chamber
Water splashing into face	Water chamber over filled	Empty some water
	Condensation is forming in tubing or mask	Turn humidifier down Use tubing cover

VPAP TROUBLESHOOTING GUIDE

Problem	Possible Cause	Corrective Action
Unit does not start when the Start button is pressed, and no lights are showing on the LCD panel.	Power cord not connected properly	Connect cord firmly at both ends.
	Power point may be faulty	Try another power outlet
Machine does not alternate between IPAP and EPAP	Hyperventilation and/or high room temperature has caused machine to overheat	The machine will revert to normal once it cools down (about 15 mins) If uncomfortable stop the machine for the time it takes to cool. Try to slow your breathing. Cool your room down.
Machine not giving enough air	Ramp timer is on	Wait for pressure to build up over selected ramp time or Turn ramp timer off.
	Air filter is dirty	Change the filter.
	Tubing is kinked or punctured	Straighten or replace tube.
	Tubing is not connected properly	Tighten all connections
	Mask and headgear not on properly	Reapply mask
	Plugs missing from access ports on mask.	Replace plugs.
Air leaking around nose and eyes	Cushion not properly fitted to mask frame	Refit cushion to frame.
	Mask/harness not positioned correctly.	Adjust mask position.
	Plugs missing from access ports on the mask	Replace plugs or seal hole with plastic tape.
	Nasal cushion is worn, torn or distorted.	Replace cushion
Machine does not stop when you take the mask off	Smart start/stop is disabled	Enable Smart Start/Stop. Use on/Off button to stop the machine
Smart Start/stop is on but unit does not stop when you take the mask off	Incompatible humidifier or mask being used	Change humidifier or mask type
Displays error message: Check tube!! Key if done.	The air tubing is loose	Secure all connections Press any key to clear the message.
Displays error message: SYSTEM ERROR Call Service!	Component failure	Call VRSS Outreach
Excessive motor noise	Component failure	Call VRSS Outreach
Displays error message: High leak in last session	You had excessive mask/ mouth leak during the night	Secure all connections Use mask fitting feature to help fit mask properly.