

Title: Resmed10 Airsense & Aircurve	Date: 4/9/2025
By: Resmed, San Diego, CA 92123	DISCLAIMER: THIS PROCEDURE PROVIDED "AS IS" AND WITH POSSIBLE FAULTS. USER MUST VERIFY BEFORE USE. NEITHER PROVIDER NOR WEBSITE ASSUMES ANY RESPONSIBILITY FOR ITS USE.
File = ResmedGuideline5.doc	

1. General

Applies to models Resmed Airsense 10 and Aircurve 10.

2. Reference Documents

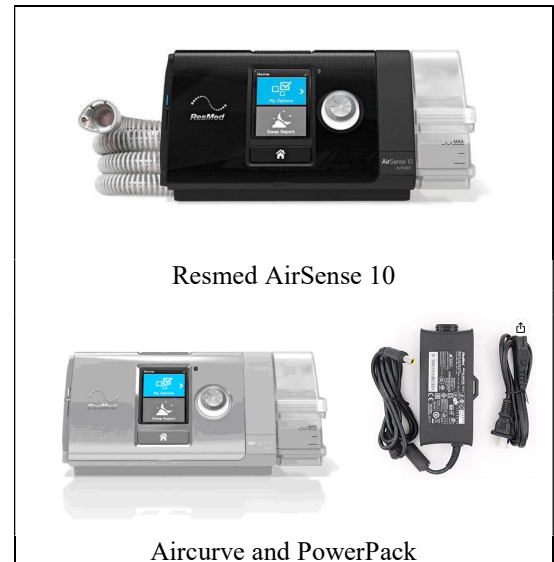
User Guide (no P/N) Has some troubleshooting.

Clinical Guide (no P/N)

Service manual (no P/N) - Essentially unavailable.

3. Tools / Fixtures / Accessories

- Compatible flex-hose (heated or non-heated).
- Filter P/N 36851; SD Card (optional)
- Power Pack 24V, 3.75A -- P/N 370001, 370006
- Optional: Replacement Humidifier Chamber - P/N 37299
- Cork Adapter & tubing (see Appendix)
- Manometer (up to 20 cmH₂O typical)
- “Breathing” Bag / Optional – See Appendix photo



4. Performance Verifications

4.1. Inspection

Check unit for any damage; i.e. hose, knobs, the power cord, power pack, and the low-voltage cable’s small plug & connector.

4.2. Cleaning

External Cleaning is covered in the easily available User or Clinical Guides.

Internal Cleaning: Respiratory therapists have expressed reluctance to renew a unit that has visible contamination on the inside of the output port, inside the two input ports visible when the humidity chamber is removed, and the port just behind the filter. Also, a dirty humidifier chamber is a red flag. Any of the above indicate that the unit's inner chambers likely need cleaning, a process not covered here. See service videos in Appendix. Note: If scrapping, salvage the SD card (8-32 GB typical). Needed when sleep data requires transfer with no cellular service.

4.3. Initial Turn-On

There is no on/off switch. After plugging unit to line, the main display and the green LED on the Start/Stop switch will light. Note: the plug/connector at rear of unit can easily disconnect.

After turn-on, unit will display an error code if problem.

4.4. Run-Time Check and Decision Point (Clinical Menu)

Access the Clinical Menu per note in Appendix. Scroll to the bottom of the menu and select “About”, and note “Run Hours”. Resmed indicates a device life of 5 years (~ 14,600 hrs). A runtime exceeding 50% of this (>7000 hrs) may affect your decision on further checkout/repairs. Note: *Date* and *Time* -- update if needed.

4.5. Controls, Indicators and Factory Reset (See Appendix for accessing Clinical Menu.)

Verify that controls/dials are responsive. In Clinical Settings, scroll down and perform “Restore Defaults”. Elsewhere in this menu set Output Pressure to 8 cmH₂O, Ramp Off, Mode = CPAP (not Autoset), EPR = 0, (and if the AirCurve 10, PS=0). Exit Clinical Menu.

4.6. Pressure/Flow Check Note: If manometer not available, go to 4.7

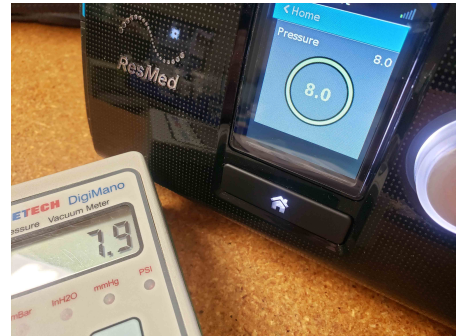
Output pressure is easily checked by using the manometer connection shown in the Appendix. Be sure manometer is set to *cmH2O*. Hit the Start/stop bar and the unit will ramp up to 8 cm pressure in a few seconds. This will maintain for almost a minute for observation. Accuracy: $\pm 0.5 \text{ cm H}_2\text{O} \pm 4\%$ of measured reading per User Manual. See photo.

4.7. Alternate Operational Checks

Option 1: If available, connect the breathing bag as shown in the Appendix. Hit Start/Stop and unit will inflate bag. After the bag inflates, squeeze bag and check that it re-inflates.


Note: If “events per hour” and AHI do not show in the normal User menu, go to “Clinical Settings” per Appendix, and then go to “Essentials” and change it to “Plus”.

Option 2: Wearing a facemask, hit the Start/Stop at the unit’s top. No leaking sounds should come from the unit itself.



4.8. Filter Check and Replacement

Per Resmed, change every few months or when discoloration is noticed. See Appendix photo.

4.9. Cell Tower Connectivity Check and SD Card (Required when communication to caregiver needed). These units do not use Wifi, but instead automatically connect to any available cell network when available. This feature is functioning properly by noting this bar  graph. When connected, the color is green, otherwise, gray. Note: Some older units with only 3G connectivity have limited connectivity. SD Card : Prior to finalizing a unit with an SD card, clear it by entering the Clinical Menu and scrolling down to “Erase Data”. See Appendix for viewing patient data option using SD card.

4.10. Humidity Chamber Warming

Humidity Chamber Heating can be verified by going to “Humidity Level” in options and temporarily changing from “Off” to 6 for example. Scroll down a few lines and hit “Run Warmup” for a minute; then remove the humidity chamber and check base for a warming. Reset “Humidity Level” back to “Off”.

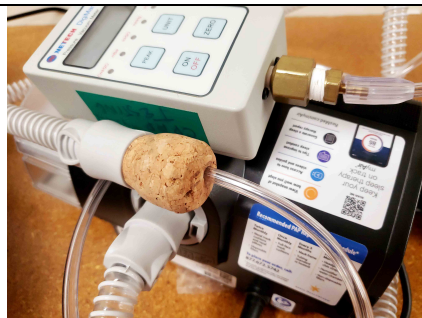
4.11 User Manual: Include in flap of case if available.

APPENDIX

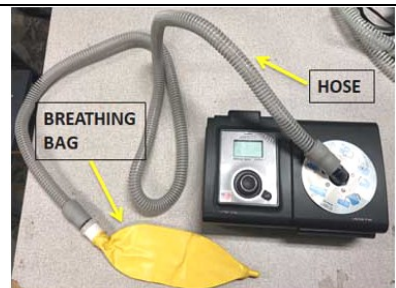
Accessing the Clinical Settings Menu	To check or change various settings, enter the “Clinical Menu” by choosing “Options” with main dial, and then pressing and holding the dial and the Home button for three seconds. Click on “Settings” and scroll down.
Default Values	Using the sequence just above, scroll down to “Restore Defaults” and click/proceed.
Internal Cleaning Videos	https://www.youtube.com/shorts/E-AefCaRd_o https://www.youtube.com/watch?v=CGjFMrV7Meo
Note: 5 year Usage Perspective: 5yrs x 365days/yr x 8hrs/day = 14,600 hrs (per Resmed) Unit stops by design at 21,000.	
Clinical Data Viewing Software: Download/Install “Oscar” from https://www.sleepfiles.com/OSCAR/	



Doors for filter and SD card are delicate and sometimes hard to open.



Simple Adapter Connections



Disposable Breathing Bag, 1 L, \$7.50