



AirMini™

FAQ



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1. AirMini Tubing and ActiveAir technology

1.1. Why does the AirMini tube have different connectors?

The AirMini tube has unique proprietary connectors to connect to the AirMini machine and compatible masks, including ResMed 20 Series masks, and AirFit P10 for AirMini mask. This proprietary air tubing enables the use of new technologies for CPAP therapy, including the ActiveAir vent, HumidX waterless humidification and the miniaturised AirMini machine, while maintaining ResMed's high standards for effective therapy. The AirMini tube enables an easy transition from AirSense, or other CPAP systems, to AirMini systems via the small and simple mask connectors compatible with ResMed latest masks.

1.2. What is ActiveAir Technology?

ActiveAir technology is an innovative mask vent that reduces the excess flow that is wasted by traditional mask vents, whilst maintaining sufficient washout of exhaled CO₂. The ActiveAir vent continuously responds to the patient's CPAP mask pressure to control vent flow. As a result, a reduction in the vent flow reduces the overall flow output required for the CPAP machine, enabling a smaller blower that requires less power. By eliminating excessive flow, ActiveAir enables the AirMini to be the world's smallest CPAP device at time of its initial launch, while maintaining ResMed's high standards for effective therapy.

1.3. How does the ActiveAir technology work?

Typically, masks feature a vent, comprised of one or more fixed orifices, to eliminate expiratory gases before the next inspiration. This minimizes CO₂ rebreathing and allows a critically sufficient vent flow at the minimum PAP pressure, with higher flows resulting at higher pressures. Vent flows higher than this critical flow provide no additional benefit.

The ActiveAir includes a pressure activated silicone membrane valve that responds to the CPAP pressure. As pressure increases in the mask, the ActiveAir reduces vent flow to a level that maintains CO₂ washout from the system while reducing the overall flow output required at higher pressures of the AirMini device.

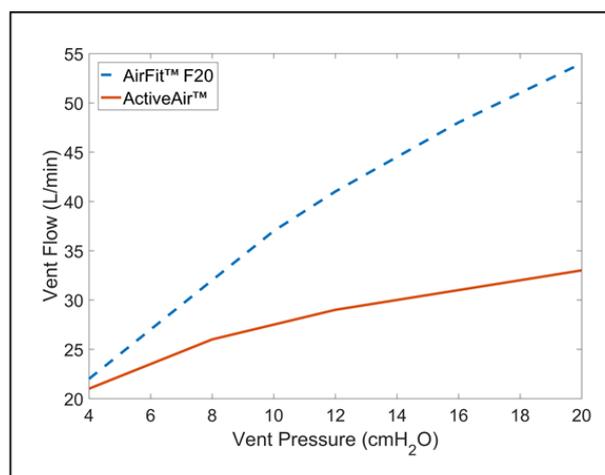


Figure 1: Comparison of ActiveAir Technology vs Traditional Vent



1.4. Does the ActiveAir increase breathing resistance when a patient exhales?

No. The AirMini machine with the ActiveAir technology controls the CPAP mask pressure, delivering equivalent performance to AirSense 10 (when using a 15mm tube, e.g. SlimLine). The AirMini machine continuously adjusts the pressure at the outlet to compensate for circuit resistance and maintain adequate therapy pressure at the mask.

Like a traditional vented mask, if the patient's peak exhalation flow exceeds the vent flow rate, some flow will temporarily travel down the tube before returning to the vent at the end of the breath cycle.

1.5. Can the silicone dislodge/fail, if it did, what could happen?

The silicone membrane is physically encased inside the vent housing and is held in place with retainer components. It would require significant distortion to enable the membrane to dislodge. If damaged, the tubing component should be replaced as a missing membrane would result in high flows and increased noise from the vent.

1.6. Does ActiveAir technology increase resistance as the patient tries to exhale (by reducing vent flow)?

Pressure swings are an indicator of breathing comfort and with AirMini's ability to continuously adjust pressure to compensate for the circuit impedance (including the HumidX), the mask pressure swings are within our clinical specifications and do not deviate significantly from AirSense 10.

The only time increased resistance may be experienced is post apnea. During these episodes, the patient will generally gasp for air, possibly resulting in an exhalation is so high that any device would temporarily struggle to properly control the pressure. After this post-apnea breath, the machine will return back to normal therapy operation.

1.7. ResMed generally recommends increasing pressure to wash out CO₂. Will the ActiveAir technology prevent this?

Our testing showed that with ActiveAir technology, AirMini was able to adequately rinse CO₂ from the mask. However, while the flow is lower than our previous devices, increasing pressure should still increase flow and therefore should still increase CO₂ washout to adequate levels where required.

1.8. What do I do if my patient feels like they are not getting enough air?

Like all CPAP machines, patients may be susceptible to various effects of CPAP therapy, which can lead to breathing discomfort such as air restriction.

The AirMini machine has auto ramp as the default ramp setting with the Start Pressure set to 5cmH₂O. This mask pressure will remain at 5cmH₂O until sleep onset is detected or the timeout limit (30 minutes) is reached before ramping up to therapy set pressure. If patients are uncomfortable with auto ramp, check their ramp settings match their previous device, as devices prior to AirSense did not have auto ramp features.

The AirMini machine has Expiratory Relief Pressure (EPR) setting enabling a reduction in pressure of 1cmH₂O, 2cmH₂O or 3cmH₂O during exhalation. EPR will only function when the current pressure is above 4cmH₂O. The EPR level is also limited such that the delivered pressure will not drop below 4cmH₂O. For example, if the set pressure is 5cmH₂O, the pressure relief will be a maximum of

1cmH₂O, even when a higher EPR value is selected. The AirMini machine has a default start pressure of 5cmH₂O and a default EPR of 1cmH₂O.

The HumidX returns heat and moisture back to the patient, which depending on the climate, may not be suitable or may feel uncomfortable. Reducing the humidification from HumidX Plus to HumidX, or removing the HumidX component may improve breathing comfort.

1.9. Air is expelling out of my patients tube. Is their tube leaking?

When the system is correctly assembled, airflow will be felt from the ActiveAir vents in either the Vent Module (N20 connector, P10 for AirMini) or from the F20 connector elbow as shown in Figure 2.

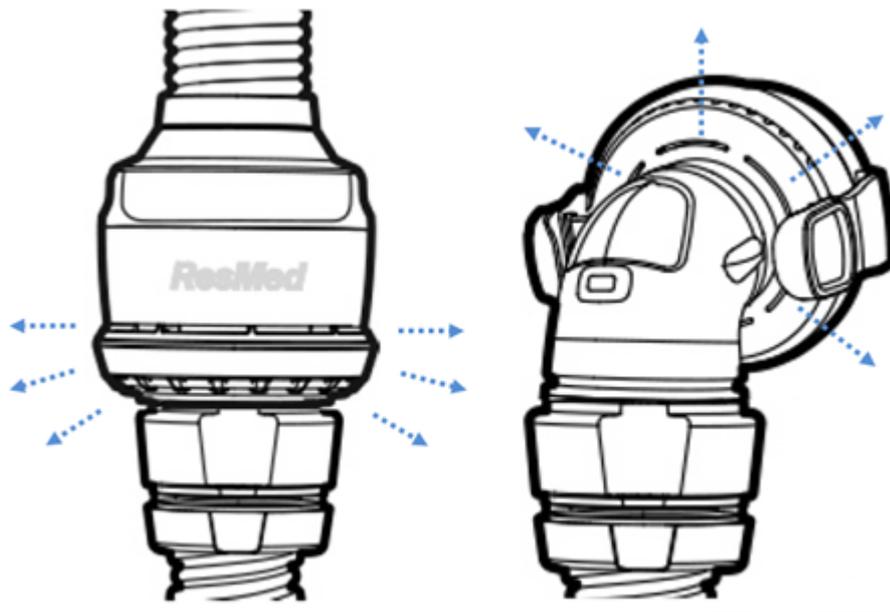


Figure 2: N20 and P10 for AirMini (Left), F20 connector elbow (Right)

If this is not the location of the leak, it is possible that the tubing is not assembled (or connected) correctly. Check correct tubing assembly in the user guide instructions.

1.10. Why did you move the location of the vent?

Moving the location of the vent allowed us to ensure that the HumidX can be placed between the patient/mask and the vent. This is the only way the passive humidifier (HumidX) can properly function, as heat and moisture can be captured from the patient's exhaled breath before they are expelled from the vent.

1.11. How often should the AirMini tube be cleaned?

The AirMini tube is recommended to be checked and cleaned every week by washing it in warm water with mild liquid detergent, rinsing thoroughly and shaking before being left to air dry. The mask connectors should also be checked daily and cleaned in a similar manner as the AirMini tube.

Refer to the user guide for full cleaning instructions.



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1.12. Can my patient use the AirMini tube or HumidX with AirSense 10 device?

No, the ActiveAir and HumidX technologies are not compatible with AirSense 10. As such, the AirMini tube uses proprietary connectors that only work with AirMini. The AirMini machine is designed to compensate for the air tubing and integrated ActiveAir and HumidX technologies, as such, they use unique connections to ensure they are used safely.



2. Humidification – HumidX & HumidX Plus

2.1. What is HumidX/HumidX Plus?

The HumidX technology is an optional waterless humidification system that captures heat and moisture produced by the patient in the circuit to improve airway dryness symptoms common to CPAP therapy. The HumidX provides convenient, small and low maintenance CPAP humidification. Currently, the HumidX technology is available for the N20 series and AirFit P10 for AirMini masks, offering two levels of humidification (HumidX and HumidX Plus) .

2.2. How does the HumidX work?

The optional HumidX technology is integrated in the AirMini tubing and allows exhaled air to pass through the HumidX before reaching the mask vent. This configuration captures the heat and moisture from the air and returns it to the patient upon inhalation. The operation of the HumidX mimics the natural humidification processes of the nose to boost moisture levels when using CPAP therapy. The ability to capture the patient's exhaled moisture before exiting the mask vent is designed to provide an increased usability and breathing comfort.

2.3. Can the HumidX be cleaned?

No. The HumidX is a disposable component that cannot be cleaned or washed. The HumidX must be replaced 30 days after the packaging is opened. The HumidX should be inspected daily, and replaced if damaged or found with dirt or dust.

2.4. How often does the HumidX need to be replaced?

The HumidX must be replaced 30 days after the packaging is opened. If the HumidX was not used every day during the 30-day period, it must still be replaced. The HumidX design life is based on the date of opening the packaging not the number of days used during therapy.

2.5. What if the HumidX is used beyond 30 days?

ResMed does not recommend using the HumidX beyond 30 days. Although, the HumidX has been tested beyond its design life, ResMed supports the safe use of 30 days. If the HumidX is used beyond 30 days this can cause deterioration in cleanliness, humidification performance and breathing comfort which can affect safe and efficacious use of AirMini. The HumidX and other components of the AirMini system are to be regularly maintained as per the user instructions.

2.6. Does the HumidX have a use by date?

No, the HumidX does not have a use by date and can be stored in the sealed packaging without impact to the safety or efficacy of therapy. Note however that if the packaging has been opened, damaged or torn at the time of receipt, the HumidX should be discarded and replaced with a new one.

2.7. Can I still use the HumidX if I got it wet?

No, if the HumidX gets wet (saturated) it is recommended to be discarded and replaced.



2.8. How does the waterless humidification compare with AirSense 10 humidification?

Our waterless humidification system allows exhaled air to pass through the HumidX before it reaches the mask's vent. In typical overnight conditions* this helps ensure minimal heat and moisture loss and allows HumidX to deliver a similar level of humidification as a traditional bedside device.**

*In a typical overnight temperature of 16-22°C and a dry room of 20-30% relative humidity, the HumidX provides humid air 70-80% RH to breathe.

**When compared to a AirSense 10 with a humidifier setting 4 and a SlimLine tube.

2.9. What should I do if my patients are not getting adequate humidification?

The HumidX performance is impacted by mask leak and therefore is more suited to low leak users. In order to maximise humidification for your patients, we recommend first trying to minimise any leak.

If the HumidX is still not providing the desired level of humidification try swapping between the HumidX & HumidX Plus to see if this improves comfort levels for your patient. It is advised to consider the patients environmental sleeping conditions as variability in ambient humidity can impact the performance of the HumidX.

If neither of these options help, waterless passive humidification may not be suitable for the patient's humidification needs.

2.10. Is there humidification for full-face masks?

No. ResMed currently provides waterless humidification for N20 and P10 for AirMini only.

Using the current HumidX technology we are unable to develop a HME for full faced masks that can deliver the desired level of humidification performance. We are currently researching next generation HME technologies that we hope will allow us to develop a HME for full faced masks with the desired humidification performance in the future.

2.11. How come the HumidX lasts for 30 day when HMXs have to be changed everyday in the ventilation devices?

Heat and Moisture Exchangers are commonly used for short durations for patients with high dependencies (e.g. patients with tracheostomies) due to increased breathing resistance (impedance of HME), bioburden loading and humidification efficiency.

The use of the HME in a CPAP masks differs as CPAP patients retain the use of their upper airways which contain defence mechanisms for contaminants and support additional humidification of inspired air.

Furthermore, the implementation of the HumidX away from direct contact with the airway significantly reduces effects of blocking or contamination which lead to flow restrictions. These factors enable increased longevity of HMEs within the CPAP (non-invasive) use case.



3. Flow generator

3.1. What therapy mode does the AirMini have built into the system?

AirMini has all the same therapy modes AirSense 10 AutoSet for Her including:

- CPAP
- AutoSet (with the option of Response)
- AutoSet For Her

Unlike AirSense 10 AutoSet, every AirMini device has all three of these therapy modes included.

3.2. Why is there no user interface?

AirMini is designed to support both simplicity and a richer experience depending on your patient's preference. To support this, we designed AirMini with a simple one-button interaction for simplicity and an accompanying app that can be used to unlock a richer, more engaging therapy experience.

3.3. The machine seems quite warm when powered on. Is this normal?

Due to its reduced size, the AirMini machine may get warm when running under normal circumstances. These temperatures are not a safety risk, and the inbuilt thermal cut-off will prevent damage to the device should it get too hot during operation.*

* Testing reported in eLB0817-165 AirMini Thermal Challenge Test Results, ref 3.6, shows that in normal use – even at more demanding settings – temperatures in the blower do not go much above 40°C. Does not give rise to any hazard or cause any reduction in life-expectancy for the blower.

3.4. Will my patient be at risk if they fall asleep and accidentally cover the air intake?

It is important to ensure that the air inlet is not blocked or covered as this can cause the device to overheat. Given this, we do not recommend your patients place the AirMini machine in the bed, or under a pillow, sheet or blanket. If the device does get too hot, the inbuilt thermal cut-off will turn off the device, preventing risk of harm to your patient or damage to the device.

There is an optional mount system available for patients who do not want to place the device on a bedside table.

3.5. My patient is worried that the AirMini machine will fall off the bedside table during the night. What can be done?

AirMini is designed to grip onto the surface it is placed on. In addition, the AirMini mount system is available and has been designed to secure the device in various locations.

3.6. Will the white AirMini machine become dirty quite quickly?

Over time, markings on the white device may become more noticeable. These marks can be cleaned with a dry cloth, as per the user guide.

3.7. How much power does the AirMini machine draw?

The typical power consumption from AirMini is 6.3W and the peak power consumption is 27W. Refer to AirMini user guide for full technical specifications.



3.8. What is the operating temperature range for the AirMini machine?

The optimal performance temperature range for AirMini is between 5°C to 35°C (41°F to 95°F). This operating temperature range is the same as the AirSense 10 machine. Performance of the AirMini system may vary if operated outside the recommended temperature range.

3.9. What's the max altitude for the machine?

The AirMini has been tested to ensure normal operation at altitudes between sea level to 8500' (2591m).

3.10. If the AirMini is to be used in other countries, will the power supply unit automatically convert?

Yes, the AirMini machine has been designed to accept an AC input range of 100-240V and a DC output of 24V. However, it is recommended that patients purchase the correct AirMini power supply unit for the country they are visiting to ensure correct performance of their AirMini machine.

3.11. How often does the filter need to be replaced?

The air filter should be replaced every 6 months and cannot be washed. Patients should check the air filter regularly and replace if there is any visible damage, blockages, dirt or dust.

3.12. Can my patient use the AirMini machine on an airplane?

If the patient has access to power, they can use the AirMini machine when on an airplane. Please ensure that they set the AirMini to airplane mode before they travel (refer to travelling section of the AirMini user guide for instructions on entering and exiting airplane mode).

We are also working on a battery that will be released soon.



4. Masks

4.1. What masks can be used with AirMini?

AirMini is compatible with the 20 Series masks and AirFit P10 for AirMini. These masks include:

- AirFit F20
- AirFit F20 for her
- AirFit N20
- AirFit N20 for her
- AirFit P10 for AirMini

Note: An additional setup pack containing the AirMini tube and appropriate connector is required to use the 20 Series masks with AirMini.

4.2. Why are there only some masks compatible with AirMini?

The AirMini system uses ActiveAir and HumidX technologies to enable the AirMini to be the world's smallest CPAP device, while maintaining ResMed's high standards for effective therapy. This required a new range of masks to be designed to work specifically with AirMini and these innovative new technologies.



5. AirMini vs AirSense 10

5.1. Does the AirMini provide the equivalent level of therapy performance as AirSense 10? Is it an effective CPAP?

Yes – AirMini was developed with the same benchmarks for therapy efficacy as AirSense 10. A significant reduction in size, while maintaining the same quality of therapy, has been made possible with innovations including the ActiveAir technology, HumidX and the AirMini app.

5.2. How reliable is AirMini when compared to AirSense 10?

AirMini has been designed under the same stringent standards of quality that AirSense 10 is today. The AirMini machine also has the same two year warranty and five year design life as the AirSense 10.

5.3. Is AirMini noisier than AirSense 10?

While AirMini has been designed to be as quiet as possible, it is not as quiet as AirSense 10. This increase in noise was a necessary compromise to significantly reduce the size of the AirMini machine.

The noise experienced by patients while using AirMini may differ from what they are used to. The cyclical nature of this noise may be more noticeable to some patients and therefore be perceived as loud when compared to their previous device.

5.4. What is the conducted/radiated noise of AirMini vs. AirSense 10, how much louder is it?

In terms of radiated noise, the AirMini is approximately 2dBA louder than AirSense 10 (± 2 dBA uncertainty).

In terms of conducted noise, results from internal testing showed AirMini to be approximately 3dBA louder than AirSense 10. However, as noise is a very subjective issue, patient perception and tolerance may vary.

5.5. How does the motor compare to AirSense10 machines?

The motor in AirMini is 45% smaller than the AirSense10 motor. Functionally the motor operates in a similar way to the motor in an AirSense10. Our innovative ActiveAir technology enables this significantly smaller motor to deliver equivalent therapy to an AirSense10 machine.



6. Bluetooth

6.1. How do I pair AirMini with a smart device?

Before connecting the AirMini machine to a smart device, ensure that the latest version of the AirMini app is installed on the smart device. If not, download the AirMini app from the app Store™ or Google Play™.

1. Ensure that the AirMini machine is set up correctly and plugged into a power source.
Refer to the machine user guide for additional information on setup.
2. On the smart device, enable Bluetooth®.
Refer to the smart device user guide for instructions on enabling Bluetooth®.
3. The first time you open the AirMini app, you will be asked to consent to the use of cookies and to accept ResMed's Terms and Conditions and Privacy Policy.
Check the box on the Welcome screen and then tap Continue.
4. On the AirMini machine, press the Bluetooth® button when prompted by the AirMini app.
When the light on the AirMini machine starts to flash blue, Bluetooth® is enabled on the machine and ready to connect.
5. On the smart device, tap Connect.
When the AirMini machine is discovered, the machines name, ResMedXXXXXX, will appear in the accessory selection list.
6. Select the machine name from the list to connect.
7. The first time you pair the AirMini machine with the smart device, you will need to perform the authentication procedure.
When prompted by the AirMini app, begin the authentication process by tapping Scan code. You will be prompted by the AirMini app to allow the use of the smart device's camera and to position the machine's QR code within the camera's viewing frame.
Note: The QR code is located on the back of the AirMini machine.
Alternatively, you can authenticate by entering the four-digit key located on the back of the machine.
8. Tap Continue. When successfully connected, the Bluetooth® connection icon is displayed in the top right corner of the AirMini app.

Notes:

- As long as the AirMini is plugged into a power source, it is turned on and in standby mode.
- If the AirMini is plugged into a power source, leaving Bluetooth® enabled on the smart device ensures that each time the smart device comes within the vicinity of the AirMini, connection will occur automatically.
- You should only pair a smart device with one machine at a time.

6.2. Do I need Bluetooth® to use the app?

Yes. Bluetooth® is needed to pair and connect a compatible smart device* to the AirMini machine.

*A list of compatible smart devices can be found at,
www.resmed.com/uk/en/consumer/products/airmini-app.html



6.3. Is it difficult to connect the AirMini to a smart device?

Connecting a smart device to the AirMini machine is similar to connecting other Bluetooth® devices. Pairing the AirMini device will require scanning of a QR code or typing the security key to pair for additional security.

6.4. What if the QR code and security code label fades or becomes damaged? Will it still be possible to Bluetooth® pair?

If the QR code on the device is not readable you can try the four-digit code instead. If neither are readable due to damage or fading on the device label, then contact your ResMed representative for assistance.

For further information about Bluetooth® pairing, refer to the user guide.

6.5. Why Bluetooth?

Bluetooth allows direct interaction between the AirMini and a smart device replacing the traditional user interface of the machine. Moving the user interface to a smart device also allowed us to make the machine smaller and offer a richer experience to patients.

6.6. How secure is the Bluetooth® connection?

The Bluetooth® connection is secured by scanning the QR code or entering the four-digit code to pair. This code ensures that only the primary user of the machine can pair a smart device. This helps provide a private connection between a smart device and the machine to secure your patients' sleep data.

Send an email to SecurityConcerns@ResMed.com if a patient persists with security questions regarding AirMini.

6.7. Will a Bluetooth® connection with AirMini drain the battery on my smart device?

Activating Bluetooth® will increase battery consumption on the smart device. A Bluetooth® connection between the smart device and AirMini is not required to run therapy. If your patients are worried about battery drain, we suggest to tell them to keep the smart device charging while sleeping, turn off the Bluetooth® or turn on Airplane mode on their smart device.

6.8. How do I reconnect my AirMini to my smart device?

If the Bluetooth® on the smart device is switched on, the AirMini machine that was previously paired should automatically reconnect.

However, it is also possible to connect by simply tapping the Bluetooth® icon on the top right corner of the app's home screen. The app will then prompt to connect the smart device with the AirMini machine. The Bluetooth® icon will be visible in the app and the Bluetooth® LED on the machine will turn blue and remain blue when the smart device is on and is paired or connected to the AirMini machine.

6.9. How can I disconnect Bluetooth® connection between the app and the machine?

- In clinical mode the user can disconnect within the app. Tap on the Bluetooth® icon > Disconnect



- For any other user, turn off the Bluetooth® signal from your smart device or turn off the Bluetooth® on your machine

6.10. How can I forget a Bluetooth® connection within a smart device?

- iOS – Settings > Bluetooth® > My Devices, tap on the 'i' icon > Forget This Device
- Android – Settings > Bluetooth® > Paired device, tap on the 'cogs' icon > Unpair

6.11. What will happen if my patient's smart device battery discharges during the night? Will therapy be affected?

If the smart device disconnects for any reason, the AirMini will continue to deliver therapy uninterrupted. The data will transmit to your patient's smart device when it next connects to the machine.

6.12. How many AirMini machines can pair to one smart device?

The AirMini app can only connect to one machine at a time. To assist with multiple concurrent set ups, we have included a convenient Bluetooth® disconnect feature in the clinical menu of the app. Using this feature once set up is complete will disconnect the smart device from the current machine ensuring the app is ready to connect to the next machine.

6.13. How many smart devices can be paired with an AirMini machine?

AirMini can only connect via Bluetooth® with one smart device at a time. If another smart device initiates a Bluetooth® connection with the same AirMini, the machine will disconnect from the previous smart device before connecting to the new smart device.

6.14. Can I pair with other Bluetooth® devices whilst paired with AirMini?

Yes, the connection with AirMini should not interfere with other Bluetooth® connections

6.15. How does the AirMini machine connect to my smart device?

The AirMini machine uses Bluetooth® to connect to a smart device. Once connected to the machine, the Bluetooth® icon in the app will become solid to indicate there is an active connection.

The AirMini machine will display a solid (non-flashing) blue LED above the Bluetooth® button to indicate there is an active connection.

6.16. The AirMini app just crashed. Do I need to pair the device again?

If the Bluetooth® connection was already established and the machine remained plugged in the app should auto reconnect with the machine.

If no Bluetooth® connection is established, then you will need to pair with the machine again.

6.17. How close does my patient's phone have to be from the AirMini machine for the app to work?

The AirMini machine connects through a Bluetooth® signal to your supported smart device. If the smart device is out of range of the AirMini machine (approximately 10m radius with clear line of sight), the signal will drop and the unit will become disconnected. This will not prevent the therapy to be delivered properly as the device doesn't need to be connected to function.



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6.18. QR code - Is it used after the initial setup?

The QR code is used to establish trust and authenticate Bluetooth® pairing between the AirMini and the AirMini app. Once a Bluetooth® connection establishes between AirMini and a smart device, the QR code should not be required to reconnect to the same AirMini machine using the same smart device.



7. Data

7.1. It is a pain to get sleep data of existing travel PAPs. Will AirMini be the same?

AirView support is coming soon. Once it is available, AirMini will provide a streamlined and efficient data management process similar to what can be experienced when using AirSense10 and AirView today.

7.2. Where can sleep data be viewed?

Therapy score and sleep statistics are viewable in the AirMini app when synced via Bluetooth®.

AirView support is coming soon. Once it is available data will be available for viewing remotely on AirView

7.3. Can I track my patient's sleep data remotely?

AirView support is coming soon. Once it is available data will be available for viewing remotely on AirView

7.4. How do I access sleep data if my patient does not have a smart device?

The device data can still be accessed by pairing a different phone to the device. AirView support is coming soon. Once it is available clinicians will be able to use the clinical menu to push data to the cloud.

7.5. Will my patient's data save if their phone was to disconnect or run out of battery?

Yes, The AirMini machine will store up to 1 year of detailed data. Once paired/connected via Bluetooth®, the AirMini app calculate and display the last 30 days of summary sleep statistics and therapy score.

7.6. How do my patients access their sleep data past 30 days?

Patients are unable to access any sleep data that exceeds the previous 30 days.

7.7. Can data be recovered if my patients accidentally erased everything?

If the "Erase Data" button has been selected, all the data will be cleared and won't be recoverable. We have included a confirmation prompt in the AirMini app when "Erase Data" is selected. This will avoid accidental deletion of machine data.

7.8. Does AirMini send my patients' information to the cloud?

At the initial launch, the AirMini app does not transmit any data from your patient's smart device.

AirView support will come online soon, at which point your patient's smart device will send the AirMini data to AirView. The data sent is composed of usage, pressure, events, leaks, machine status, machine identifier. No personal patient data is sent.



7.9. When does my machine send my patient's data?

Your patient's data is usually transmitted to the AirMini app every minute as long as the app is paired with machine.

7.10. How does data get transferred from the AirMini machine to the app?

Data is transferred automatically, provided the AirMini machine is connected via Bluetooth® to your patient's supported smart device.

7.11. What will be displayed in the app if I use my patient uses his AirMini machine in multiple segments (i.e. naps)?

Your patient's daily therapy score displayed in the AirMini app represents data collected over a 24-hour period from noon to noon. If another session is recorded within the same period, the AirMini app will update the therapy score once it receives this data via a Bluetooth® connection.

7.12. Is there an SD card available for the AirMini machine?

No. The patients sleep data is transferred via Bluetooth® from the machine to a smart device and can be viewed through the AirMini app.

7.13. Can my patients view data that was recorded prior to Bluetooth® pairing?

Yes, the AirMini machine stores your patient's data internally. The AirMini app will display the last 30 days of data when your patient connects via Bluetooth®.

7.14. I need to show compliance for my job. How can I get data off my machine or print a report?

Data from your AirMini can only be obtained using the AirMini app. Printing the report is currently not available.

7.15. When will AirView support be available?

AirView support is currently under development and will become available soon.



8. AirMini app General Information

8.1. What is the AirMini app?

The AirMini app works with the AirMini machine to provide a rich and engaging therapy experience for patients. It can be used to start and stop the machine, display usage hours, mask seal, events per hour, mask on/off events, 95th percentile pressure, therapy score and allows changes to settings. The previous 30 days of this data is available to view by the patient via the AirMini app.

8.2. The AirMini app says that the AirMini machine was not used the previous night when my patient did use it. What should I do?

Check that:

- Your patient's AirMini machine plugged into power outlet.
- There is a Bluetooth connection between the AirMini machine and the smart device.
- Ensure that you have phone close to his machine.
- Ensure that the LED on the machine for the Bluetooth is blue. If the LED is white it means that the machine is in Airplane mode. If so, the patient needs to tap the Bluetooth LED and that shall disable the Airplane mode.

8.3. Do my patients need a smart device and the app to operate the device?

The AirMini machine does not require a smart device to run therapy. However, if the patient would want to view their sleep data and adjust their comfort settings, a smart device with the AirMini app would be required for this enriched experience.

8.4. My patient's AirMini app displayed an error message. What should I do?

Please refer to the AirMini troubleshooting guide for more information about specific error messages.

8.5. How do I access clinical mode from the patient screen?

To access clinical mode from the patient screen, you must open the Bluetooth® pairing screen by pressing the Bluetooth® icon in the top right corner of the patient Dashboard. From the Bluetooth® pairing screen, using two fingers, press and hold the ResMed and AirMini logos simultaneously for at least 3 seconds.

8.6. Does the AirMini app work with AirSense10 machine?

No, the AirMini app does not work with an AirSense10 machine. If your patient has a ResMed AirSense10 machine, then he can use myAir™ to track his CPAP treatment.

8.7. How does the AirMini app calculate the therapy score?

The AirMini app calculates your patient's score by analysing his nightly therapy data. A higher score is a general correlates to a better night sleep. He will get points based on the following four key categories:



Usage hours

The point system for usage works in 10's. If your patient uses his therapy for 1 hour then he gets 10 points, or for 6 hours he gets 60 points. The more time he sleeps with his therapy, the more points he receives, up to a maximum of 70 points.

Hours	Points
Less than 1	0
1	10
2	20
3	30
4	40
5	50
6	60
7	70

Mask Seal

The better your patient's mask seals, the more points he gets. This category can help him know if he needs to adjust or change his mask to get a better fit. If his mask seal is poor, it can affect his comfort and the quality of his treatment. His score reduces as his mask leak increases. He can get up to 20 points for minimal mask leak, 10 to 15 points for moderate leak, and 0 to 10 points for higher leak.

L/min	Points
0 – 16	20
17-18	19
19-20	18
21-22	17
23-24	16
25-26	15
27-28	14
29-30	13
31-32	12
33-34	11
35-36	10
37-38	9
39-40	8
41-42	7
43-44	6
45-46	5
47-48	4
49-50	3
51-52	2
53-54	1
55 or more	0

Events per hour

The fewer breathing events he has each hour the more points he gets. These breathing events are also known as the apnoea-hypopnoea index (or AHI). AirMini measures how many times your patient's breathing partially or fully stops each hour. If he has minimal events, he gets 4 to 5 points.



Events per hour	Points
0 - 6	5
7 - 9	4
10 - 12	3
13 - 15	2
16 - 18	1
19 or more	0

Mask on/off

The fewer times your patient takes his mask on and off throughout the night, the more points he gets. Everyone has to take their mask on and off one time during treatment. So, for example, if he removes his mask one or two times, you get 4 to 5 points. However, if he takes his mask on and off several times, it can indicate a problem with mask fit or with his sleep in general.

Events	Points
1-2	5
3	4
4	3
5	1
6 or more	0

8.8. Will there be ResScan support for AirMini?

No, AirMini will not be supported by ResScan.

8.9. How much battery will the app consume while running therapy?

Over a 10-hour period, when connected to the device through bluetooth, the app will typically consume on average around 20% of a smart devices battery.

8.10. Is the AirMini app compatible with tablet devices?

AirMini app may function on an iPad® or iPod touch®. However, these devices will not be officially supported at the time of launch and therefore app operation and user experience may vary.

Please refer to www.resmed.com/uk/en/consumer/products/airmini-app.html for the full smart device compatibility list.

8.11. How can my patients track the status of the machine while on therapy?

The AirMini app has a Sleep screen, displaying current pressure in real-time. The AirMini app prevents patients from accessing other screens of the app whilst on therapy but Sleep data and therapy score can be accessed from the Dashboard screen once therapy is complete.

8.12. Can a summary data report be generated from the AirMini app?

Currently, the AirMini app only allows your patients to view their therapy score and summary statistics - no reports can be generated.

When AirView comes online after the summer you'll be able to view your patients' data remotely and edit report using AirView.



8.13. Where can I view sleep statistics?

You can view these on a paired smart device in the Dashboard of the AirMini app.

8.14. Can my patients use their phone for other things while on therapy?

Yes, the AirMini app should not interfere with normal operation of the smart device.

8.15. Is a Windows smart device compatible with the AirMini machine?

No, there is currently no Windows application available. Only iOS and Android™ operating systems are supported.

See www.resmed.com/uk/en/consumer/products/airmini-app.html for latest compatibility list.

8.16. How do I remove any AirMini data from a smart device?

Uninstalling the AirMini app will ensure that all sleep data is removed from the smart device.

8.17. How much memory will the AirMini app take?

The AirMini app for both iOS and Android will require up to 100MB for installation. The exact storage consumption will be dependent on the number of nights of data stored. Refer to the relevant app store for further details.

8.18. My patient's smart device is not compatible with the AirMini app/ cannot connect to the AirMini machine via Bluetooth®. What can I do?

Refer to www.resmed.com/uk/en/consumer/products/airmini-app.html for latest smart device compatibility list. If Bluetooth® issues persist please contact your ResMed representative for assistance.

8.19. I am having trouble opening the user guide/clinical guide in the app, how do I open it?

The user guides are not compatible with all PDF apps. Try opening the user guide with an alternative app.



9. AirMini app Internet connection

9.1. Is an internet connection needed to use the AirMini app?

No, you/your patients do not need an internet connection to use the AirMini app. However, you/your patients will need a Wi-Fi or cellular connection on your smart device if wishing to send feedback via the app or data to the cloud once AirView support comes online, or when upgrading the AirMini firmware.

9.2. Can my patient use AirMini machine when travelling on an aeroplane?

If near a power source, your patient can use AirMini when travelling on an aeroplane. It needs to be set into airplane mode before (let your patient refer to travelling section of the AirMini user guide for instructions on entering and exiting airplane mode).

We are working on a battery will be available soon. It will allow for use in the airplane, even without access to a power source.

9.3. The internet access in my patient's bedroom is unreliable or does not exist. Can they still use the AirMini machine?

Yes, the AirMini machine does not require an internet connection to operate, record sleep session or transfer the data to the smart device for processing.

9.4. What if I/my patients do not have mobile/internet data access?

If internet/mobile data access is not available, sleep data can still be accessed via the AirMini app on a smart device, once Bluetooth paired to AirMini.

9.5. Do I (or my patients) have to be connected to the internet to 'Send Feedback'?

Yes, the support system connects directly to an email platform, which will require an internet connection to send the report. When sending feedback, ensure that you are in the patient mode and not the clinician mode.

9.6. Will the AirMini app use cellular data when my patient's smart device is not connected to WiFi, if so how much data will it consume?

If the connection through WiFi is lost, the cellular data may be used to update sleep device data. Data costs can vary depending on his mobile plan. However, costs should be minimal as the data being sent to the cloud by the AirMini app is only approximately 100kB per night*. If your patient is concerned though he can set the Airmini app. parameters in his smart device's settings menu so that data is sent to the cloud only while connected to WiFi.

* The size of one night's worth of data is 100kB. Downloading 30 days of data from the AirMini Machine is 2.5MB.



10. AirMini app Features

10.1. Is it possible to start and stop the AirMini machine from the AirMini app?

Yes, you/your patients can start and stop the machine from the Sleep screen

10.2. How do I enable SmartStart?

SmartStart can be enabled via the Sleep screen in the AirMini app when Bluetooth connected to the AirMini machine. When SmartStart is enabled, therapy will start automatically when your patient breathes into his mask.

10.3. How can do my patients turn airplane mode be switched on?

Please see AirMini user guide or clinical guide for instructions on turning airplane mode on and off. When the machine is in airplane mode, it will not transfer data to the app.

10.4. What does events per hour mean?

Events per hour means the number of breathing events (apneas and hypopneas) your patient experiences per hour of therapy.

10.5. How can my patients see their leak value?

The individual leak value is not displayed. AirMini app displays whether the mask seal is good or needs to be adjusted. The Mask Seal description can be seen in the Dashboard when in patient mode.

10.6. Can I run mask fit on AirMini without a smart device?

No, the AirMini app is required to run mask fit on the AirMini machine.

10.7. What does good mask seal mean?

“Good mask seal” means your patient experienced less than 24L/min of leak throughout a therapy session.

10.8. Can the AirMini app detect when my patient's equipment needs to be changed e.g. Filters, humidifier and mask?

No, this feature is not currently available.

10.9. Are there instructional videos incorporated into the app?

The AirMini app contains instructions and videos to help guide your patients when setting up their equipment. These are designed to simplify the initial set up process from out of box to starting therapy. Additionally, the app contains links to the AirMini support website and PDF versions of the user guides.



11. AirMini app Settings

11.1. Where can I find pressure and other machine settings?

Current AirMini settings are available on the Sleep screen of AirMini app.

They can also be seen and changed in the clinical mode. To access clinical mode from the patient screen, you must open the Bluetooth® pairing screen by pressing the Bluetooth® icon in the top right corner of the patient Dashboard. From the Bluetooth® pairing screen, using two fingers, press and hold the ResMed and AirMini logos simultaneously for at least 3 seconds.

11.2. How can my patients change the comfort settings on the AirMini machine?

Patient can only change comfort settings via the AirMini app with a valid Bluetooth connection. These settings include ramp time, pressure relief (if enabled by clinical user in clinical mode), SmartStart and SmartStop.

11.3. Can my patient change his AirMini machine's (prescription) settings?

No. Those can only be changed in the clinical mode, which can be only be accessed through a secret unlocking system, only provided to clinicians and providers. When entered into this mode, clinicians will have access to adjust prescription settings.

11.4. I just changed the AirMini machine settings from the app. How do I know that the setting has been correctly updated on the machine?

For a clinical user, there is a confirmation message on the app within clinical mode in addition to a flashing LED on the machine to confirm a change of settings has occurred.

You can also see the updated settings on the Machine settings or Sleep screen on the AirMini app.

11.5. Can I change a patient's device settings remotely?

The AirMini machine settings can only be accessed when connected to a smart device. Clinicians will not be able to remotely change patients machine settings and will require patients to physically bring in their devices if changes are required.

11.6. What will Restore Default settings on the app do?

This option is available only for Clinical user. Tapping the "Restore default settings" button will restore all clinical settings to factory defaults. Note that the app will ask for confirmation that you want to restore default settings to ensure this is not done accidentally.

11.7. I do not want to use my personal smart device and my employer does not provide one. How can I change my patients' clinical settings?

The AirMini app is required to change clinical settings on the AirMini machine. With patient's consent you could use their smart device to make changes or visit www.resmed.com/uk/en/consumer/products/airmini-app.html for a list of compatible smart devices.



Treatment

11.8. My patient has a cold. Should he keep using his AirMini machine?

Having a cold can make using CPAP therapy difficult due to nasal congestion or blockage.

In most cases, your patient will be able to keep using his CPAP machine if he can clear his nose or if he already uses a mask that covers both his nose and mouth. Sometimes medication such as over-the-counter saline spray can help clear a stuffy nose. However, if your patient is facing an acute upper respiratory tract infection, he may need to temporarily stop treatment and consult his prescribing physician.



12. Security

12.1. What are my patients and I agreeing to when ticking the box in the AirMini app (Terms & Conditions and Privacy Policy)?

A copy of the Terms & Conditions and Privacy Policy can be found in the AirMini app.

If patient's persists with further security questions regarding AirMini, send an email to SecurityConcerns@ResMed.com for further information.

12.2. Is patient information secure?

ResMed has implemented a range of technical and organisational measures (TOM's) to provide reasonable assurances that the security and privacy of personal health data that we process is protected. Critical systems undergo repeated and regular cybersecurity tests, in order to continually test the effectiveness of our cybersecurity measures. ResMed also performs internal and external reviews of our organisational measures for the processing of personal data.

ResMed has implemented TOM's based on our assessment of global privacy and security regulations for processing sensitive personal medical data including, but not limited to:

- The United States HIPAA (Health Insurance Portability and Accountability Act), including the 2010 HITECH and 2013 Omnibus updates
- The European EU 95/46/EC, and the upcoming General Data Protection Regulation
- The Australian Privacy Act,
- The French ASIP-Santé regulations for processing medical data

The AirMini and the AirMini app have security features in place to help protect your patients' privacy and prevent unauthorized access to their data. These include:

- Use of a QR code to establish trust between the AirMini and the AirMini app
- Unique keys for each mobile device and AirMini pairing
- Application-level encryption for the transmission of data, in addition to Bluetooth® security
- Encryption of data stored within the AirMini app

Protecting smart devices against malware helps keep personal information and sleep data safe and secure. ResMed recommends the following:

- Enable PIN or fingerprint security on your/your patient's smart device.
- Refer to your/your patient's smart device user instructions.
- Avoid unsafe modification of the smart device's operating system.
- Consider enabling remote data wipe on your/your patient's smart device. Remote data wipe is a function available on your smart device for remotely erasing personal data in the event that the smart device is lost or stolen.
- Refer to your/your patient's smart device user instructions.
- Keep your/your patient's operating systems up to date with security patches.
- AirMini app software updates for iPhone™ and Galaxy™ are available from the App Store and Google Play™ store. Ensure that you/your patients always have the latest version installed on your/their smart device.



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13. Accessories

13.1. Does AirMini have a portable battery?

AirMini does not currently have a battery available. However, we are developing an external battery pack which will be made available soon.

13.2. Is there a DC-DC converter available?

Yes, this will be available very soon after the AirMini launch.