

AirSense*10 AUTOSET



FNGLISH

Welcome

The AirSense™ 10 AutoSet™ and AirSense 10 Elite are ResMed's premium auto-adjusting pressure and Continuous Positive Airway Pressure (CPAP) devices.

⚠ WARNING

- · Read this entire guide before using the device.
- Use the device according to the intended use provided in this guide.
- The advice provided by your prescribing doctor should be followed ahead of the information provided in this guide.

Indications for use

AirSense 10 AutoSet

The AirSense 10 AutoSet self-adjusting device is indicated for the treatment of obstructive sleep apnoea (OSA) in patients weighing more than 30 kg. It is intended for home and hospital use.

The humidifier is intended for single patient use in the home environment and re-use in a hospital/institutional environment.

AirSense 10 Elite

The AirSense 10 Elite device is indicated for the treatment of obstructive sleep apnoea (OSA) in patients weighing more than 30 kg. It is intended for home and hospital use.

The humidifier is intended for single patient use in the home environment and re-use in a hospital/institutional environment.

Clinical benefits

The clinical benefit of CPAP therapy is a reduction in apnoeas, hypopnoeas and sleepiness, as well as improved quality of life.

The clinical benefit of humidification is the reduction of positive airway pressure related side effects.

Contraindications

Positive airway pressure therapy may be contraindicated in some patients with the following pre-existing conditions:

- severe bullous lung disease
- pneumothorax
- pathologically low blood pressure
- dehydration
- · cerebrospinal fluid leak, recent cranial surgery, or trauma.

Adverse effects

You should report unusual chest pain, severe headache, or increased breathlessness to your prescribing physician. An acute upper respiratory tract infection may require temporary discontinuation of treatment.

The following side effects may arise during the course of therapy with the device:

- · drying of the nose, mouth, or throat
- nosebleed
- bloating
- · ear or sinus discomfort
- · eve irritation
- · skin rashes.

At a glance

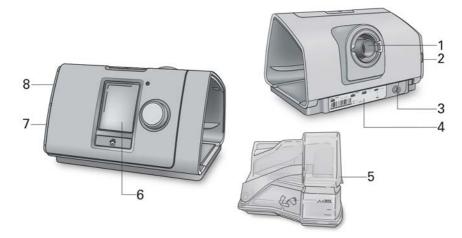
The AirSense 10 includes the following:

- Device
- HumidAir[™] humidifier (if supplied)
- Air tubing
- · Power supply unit
- Travel bag
- SD card (not available in all devices).

Contact your care provider for a range of accessories available for use with the device including:

- Air tubing (heated and non-heated): ClimateLineAir[™], SlimLine[™], ClimateLineAir Oxy, Standard
- Side cover for use without the humidifier
- Filter: Hypoallergenic filter, standard filter
- Air10[™] DC/DC converter
- SD card reader
- Air10 oximeter adapter
- · Air10 USB adapter
- Power Station II
- · Air10 tubing elbow.

About your device



- 1 Air outlet
- 2 Air filter cover
- 3 Power inlet
- 4 Serial number and device number
- 5 HumidAir humidifier
- 6 Screen
- 7 Adapter cover
- 8 SD card cover

About the control panel



Start/Stop button



Dial



Home button

Press to start/stop therapy.

Press and hold for three seconds to enter power save mode.

Turn to navigate the menu and press to select an option. Turn to adjust a selected option and press to save your change.

Press to return to the Home screen.

Different icons may be displayed on the screen at different times including:



Ramp Time



Ramp Time Auto



Humidity



Humidifier warming



Humidifier cooling



Wireless signal strength (green)



Wireless transfer not enabled (grey)



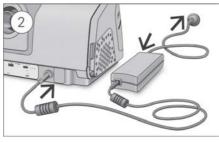
No wireless connection

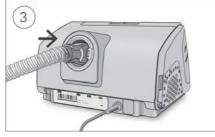


Airplane Mode

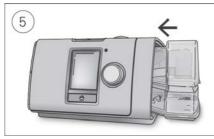
Setup

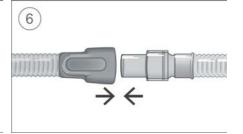












⚠ CAUTION

Do not overfill the humidifier as water may enter the device and air tubing.

- 1. Place the device on a stable level surface.
- 2. Plug the power connector into the rear of the device. Connect one end of the power cord into the power supply unit and the other end into the power outlet.
- 3. Connect the air tubing firmly to the air outlet located on the rear of the device.
- 4. Open the humidifier and fill it with water up to the maximum water level mark. Do not fill the humidifier with hot water.
- 5. Close the humidifier and insert it into the side of the device.
- 6. Connect the free end of the air tubing firmly onto the assembled mask. See the mask user guide for detailed information.

Recommended masks are available on www.resmed.com.

Starting therapy

- 1. Fit your mask.
- 2. Press Start/Stop or breathe normally if SmartStart™ is enabled.

You will know that therapy is on when the Sleep Report screen is displayed.



The current treatment pressure is shown in green.

During ramp time the pressure is gradually increasing and you will see a spinning circle. Once the prescribed treatment pressure is reached, the entire circle will be green.

The screen will go black automatically after a short period of time. You can press Home or the dial to turn it back on. If power is interrupted during therapy, the device will automatically restart therapy when power is restored.

The AirSense 10 device has a light sensor that adjusts the screen brightness based on the light in the room.

Stopping therapy

- 1. Remove your mask.
- 2. Press Start/Stop or if SmartStart is enabled, therapy will stop automatically after a few seconds.

The Sleep Report now gives you a summary of your therapy session.



Usage hours–Indicates the number of hours of therapy you received last session.

Mask Seal-Indicates how well your mask sealed:





Humidifier-Indicates if your humidifier is working properly:



Humidifier might be faulty, contact your care provider.

If set by your care provider, you will also see:

Events per hour-Indicates the number of apnoeas and hypopnoeas experienced per hour.

More Info-Turn the dial to scroll down to view more detailed usage data.

Power save mode

Your AirSense 10 device records your therapy data. In order to allow it to transmit the data to your care provider, you should not unplug the device. However, you can put it into power save mode to save electricity.

To enter power save mode:

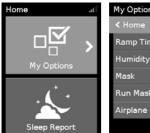
Press and hold Start/Stop for three seconds.
 The screen goes black.

To exit power save mode:

Press Start/Stop once.
 The Home screen is displayed.

My Options

Your AirSense 10 device has been set up for your needs by your care provider, but you may find you want to make small adjustments to make your therapy more comfortable.





Highlight **My Options** and press the dial to see your current settings. From here, you can personalise your options.

Ramp Time

Designed to make the beginning of therapy more comfortable, Ramp Time is the period during which the pressure increases from a low start pressure to the prescribed treatment pressure.

You can set your Ramp Time to Off, 5 to 45 minutes or Auto. When Ramp Time is set to **Auto**, the device will detect when you have fallen asleep and then automatically rise to the prescribed treatment pressure.





To adjust Ramp Time:

- 1. In **My Options**, turn the dial to highlight **Ramp Time** and then press the dial.
- Turn the dial to adjust the ramp time to your preferred setting and press the dial to save the change.

Humidity Level

The humidifier moistens the air and is designed to make therapy more comfortable. If you are getting a dry nose or mouth, turn up the humidity. If you are getting any moisture in your mask, turn down the humidity.

You can set the Humidity Level to Off or between 1 and 8, where 1 is the lowest humidity setting and 8 is the highest humidity setting.





To adjust the Humidity Level:

- In My Options, turn the dial to highlight Humidity Level and then press the dial.
- 2. Turn the dial to adjust the humidity level and press the dial to save the change.

If you continue to get a dry nose or mouth, or moisture in your mask, consider using ClimateLineAir heated air tubing. ClimateLineAir together with Climate Control delivers more comfortable therapy.

Mask Fit

Mask Fit is designed to help you assess and identify possible air leaks around your mask.



To check Mask Fit:

- 1. Fit the mask as described in the mask user guide.
- In My Options, turn the dial to highlight Run Mask Fit and then press the dial.
 - The device starts blowing air.
- 3. Adjust the mask, mask cushion and headgear until you get a Good result.

To stop Mask Fit, press the dial or Start/Stop. If you are unable to get a good mask seal, talk to your care provider.

More options

There are some more options on your device which you can personalise.

Pressure Relief* When Pressure Relief is enabled, you may find it easier to breathe out. This

can help you get used to therapy.

SmartStart* When SmartStart is enabled, therapy starts automatically when you breathe

into your mask. When you remove your mask, it stops automatically after a

few seconds.

^{*}When enabled by your care provider.

Caring for your device

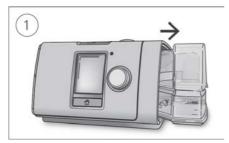
It is important that you regularly clean your AirSense 10 device to make sure you receive optimal therapy. The following sections will help you with disassembling, cleaning, checking and reassembling your device.



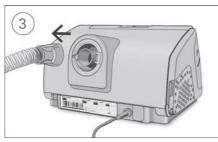
↑ WARNING

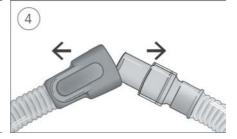
Regularly clean your tubing assembly, humidifier and mask to receive optimal therapy and to prevent the growth of germs that can adversely affect your health.

Disassembling









- 1. Hold the humidifier at the top and bottom, press it gently and pull it away from the device.
- 2. Open the humidifier and discard any remaining water.
- 3. Hold the cuff of the air tubing and gently pull it away from the device.
- 4. Hold both the cuff of the air tubing and the swivel of the mask, then gently pull apart.

Cleaning

You should clean the device weekly as described. Refer to the mask user guide for detailed instructions on cleaning your mask.

- 1. Wash the humidifier and air tubing in warm water using mild detergent.
- 2. Rinse the humidifier and air tubing thoroughly and allow to dry out of direct sunlight and/or heat.
- 3. Wipe the exterior of the device with a dry cloth.

Notes:

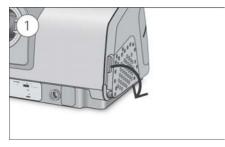
- The humidifier may be washed in a dishwasher on the delicate or glassware cycle (top shelf only).
 It should not be washed at temperatures higher than 65°C.
- Do not wash the air tubing in a dishwasher or washing machine.
- Empty the humidifier daily and wipe it thoroughly with a clean, disposable cloth. Allow to dry out of direct sunlight and/or heat.

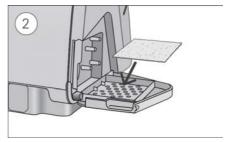
Checking

You should regularly check the humidifier, air tubing and the air filter for any damage.

- 1 Check the humidifier:
 - Replace it if it is leaking or has become cracked, cloudy or pitted.
 - Replace it if the seal is cracked or torn.
 - Remove any white powder deposits using a solution of one part household vinegar to 10 parts water.
- 2. Check the air tubing and replace it if there are any holes, tears or cracks.
- 3. Check the air filter and replace it at least every six months. Replace more often if there are any holes or blockages by dirt or dust.

To replace the air filter:





- Open the air filter cover and remove the old air filter.
 The air filter is not washable or reusable.
- Place a new air filter onto the air filter cover and then close it.Make sure the air filter is fitted at all times to prevent water and dust from entering the device.

Reassembling

When the humidifier and air tubing are dry, you can reassemble the parts.

- 1. Connect the air tubing firmly to the air outlet located on the rear of the device.
- Open the humidifier and fill it with room temperature water up to the maximum water level mark.
- 3. Close the humidifier and insert it into the side of the device.
- 4. Connect the free end of the air tubing firmly onto the assembled mask.

Therapy data

Your AirSense 10 device records your therapy data for you and your care provider so they can view and make changes to your therapy if required. The data is recorded and then transferred to your care provider wirelessly, if a wireless network is available, or via an SD card.

Data transmission

Your AirSense 10 device has the capability of wireless communication so that your therapy data can be transmitted to your care provider to improve the quality of your treatment. This is an optional feature that will only be available if you choose to benefit from it and if a wireless network is available. It also allows your care provider to update your therapy settings in a more timely manner or upgrade your device software to ensure you receive the best therapy possible.

The data is usually transmitted after therapy has stopped. In order to make sure that your data is transferred, leave your device connected to the mains power at all times and make sure that it is not in Airplane Mode.

Notes:

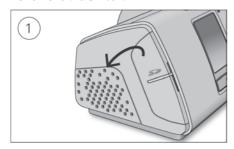
- Therapy data might not be transmitted if you use it outside of the country or region of purchase.
- Wireless communication depends on network availability.
- Devices with wireless communication might not be available in all regions.

SD card

An alternative way for your therapy data to be transferred to your care provider is via the SD card. Your care provider may ask you to send the SD card by mail or to bring it in. When instructed by your care provider, remove the SD card.

Do not remove the SD card from the device when the SD light is flashing, because data is being written to the card.

To remove the SD card:





- 1. Open the SD card cover.
- 2. Push in the SD card to release it. Remove the SD card from the device. Place the SD card in the protective folder and send it back to your care provider.

For more information on the SD card refer to the SD card protective folder provided with your device.

Note: The SD card should not be used for any other purpose.

Travelling

You can take your AirSense 10 device with you wherever you go. Just keep the following in mind:

- Use the travel bag provided to prevent damage to the device.
- Empty the humidifier and pack it separately in the travel bag.
- Make sure you have the appropriate power cord for the region you are travelling to. For information on purchasing, contact your care provider.
- If you are using an external battery, you should turn off the humidifier in order to maximise the life of your battery. Do this by turning the **Humidity Level** to Off.

Travelling by plane

Your AirSense 10 device may be taken on board as carry-on luggage. Medical devices do not count toward your carry-on luggage limit.

You can use your AirSense 10 device on a plane as it meets the Federal Aviation Administration (FAA) requirements. Air travel compliance letters can be downloaded and printed from www.resmed.com.

When using the device on a plane:

- Make sure the humidifier is completely empty and inserted into your device. The device will not
 work without the humidifier inserted.
- Turn on Airplane Mode.





To turn on Airplane Mode:

- In My Options, turn the dial to highlight Airplane Mode and then press the dial.
- 2. Turn the dial to select **On** and then press the dial to save the change.

The Airplane Mode icon \Rightarrow is displayed at the top right of the screen.

△ CAUTION

Do not use the device with water in the humidifier on a plane due to the risk of inhalation of water during turbulence.

Troubleshooting

If you have any problems, have a look at the following troubleshooting topics. If you are not able to fix the problem, contact your care provider or ResMed. Do not try to open the device.

General troubleshooting

Problem/possible cause	Solution
Air is leaking from around my mask	
Mask may be fitted incorrectly.	Make sure your mask is fitted correctly. See your mask user guide for fitting instructions or use the Mask Fit function to check your mask fit and seal.
I am getting a dry or blocked nose	
Humidity level may be set too low.	Adjust the Humidity Level.
	If you have ClimateLineAir heated air tubing, see the ClimateLineAir user guide.
I am getting droplets of water on my nose, in the mas	k and air tubing
Humidity level may be set too high.	Adjust the Humidity Level.
	If you have ClimateLineAir heated air tubing, see the ClimateLineAir user guide.
My mouth is very dry and uncomfortable	
Air may be escaping through your mouth.	Increase the Humidity Level.
	You may need a chin strap to keep your mouth closed or a full face mask.
Air pressure in my mask seems too high (it feels like I	am getting too much air)
Ramp may be turned off.	Use the Ramp Time option.
Air pressure in my mask seems too low (it feels like I	am not getting enough air)
Ramp may be in progress.	Wait for air pressure to build up or turn Ramp Time off.
My screen is black	
Backlight on the screen may have turned off. It turns off automatically after a short period of time.	Press Home or the dial to turn it back on.
Power may not be connected.	Connect the power supply and make sure the plug is fully inserted.
I have stopped therapy, but the device is still blowing	air
Device is cooling down.	Device blows a small amount of air in order to avoid condensation in the air tubing. It will stop automatically afte 30 minutes.

Problem/possible cause	Solution
My humidifier is leaking	
Humidifier may not be assembled correctly.	Check for damage and reassemble the humidifier correctly.
Humidifier may be damaged or cracked.	Contact your care provider for a replacement.
My therapy data has not been sent to my care provider	
Wireless coverage may be poor.	Make sure that the device is placed where there is coverage (ie, on your bedside table, not in a drawer or on the floor). The Wireless signal strength icon all indicates good coverage when all bars are displayed, and poor coverage when fewer bars are displayed.
The No wireless connection icon a is displayed on the top right of the screen. no wireless network available.	Make sure that the device is placed where there is coverage (ie, on your bedside table, not in a drawer or on the floor). If instructed to do so, send the SD card to your care provider. The SD card also contains your therapy data.
Device may be in Airplane Mode.	Turn off Airplane Mode, see Travelling by plane.
Data transfer is not enabled for your device.	Talk to your care provider about your settings.
My screen and buttons are flashing	
Software upgrade is in progress.	Software upgrade takes approximately 10 minutes to complete.

Device messages

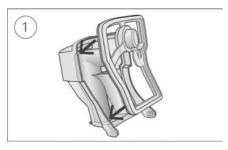
Device message/possible cause	Solution
High leak detected, check your water tub, tub se	eal or side cover
Humidifier may not be inserted properly. Make sure the humidifier is correctly inserted.	
Humidifier seal may not be inserted properly.	Open the humidifier and make sure that the seal is correctly inserted.
High leak detected, connect your tubing	
Air tubing may not be connected properly.	Make sure the air tubing is firmly connected at both ends.
sk may be fitted incorrectly. Make sure your mask is fitted correctly. See you guide for fitting instructions or use the Mask F check your mask fit and seal.	
Tubing blocked, check your tubing	
Air tubing may be blocked.	Check the air tubing and remove any blockages. Press the dial to clear the message and then press Start/Stop to restart the device.
SD card error, remove your card and press Start	to begin therapy
SD card may not be inserted correctly.	Remove and reinsert the SD card.

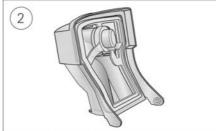
Device message/possible cause	Solution			
Read only card, please remove, unlock and re-insert SD card				
SD card switch may be in the lock (read-only) position.	Move the switch on the SD Card from the lock position for the unlock position on the sum of the unlock position of the unlock position of the sum of the s			
System fault, refer to user guide, Error 004				
Device may have been left in a hot environment.	Allow to cool before re-use. Disconnect the power supply and then reconnect it to restart the device.			
Air filter may be blocked.	Check the air filter and replace it if there are any blockages. Disconnect the power supply and then reconnect it to restart the device.			
Air tubing may be blocked.	Check the air tubing and remove any blockages. Press the dial to clear the message and then press Start/Stop to restart the device.			
There may be water in the air tubing.	Empty the water from the air tubing. Disconnect the power supply and then reconnect it to restart the device.			
All other error messages, for example, System fault,	refer to user guide, Error OXX			
An unrecoverable error has occurred on the device.	Contact your care provider. Do not open the device.			

Reassembling parts

Some parts of your device are designed to easily come off in order to avoid damage to the parts or the device. You can easily reassemble them as described below.

To insert the humidifier seal:





- 1 Place the seal into the lid
- 2. Press down along all edges of the seal until it is firmly in place.

To reassemble the humidifier lid:





- 1. Insert one side of the lid into the pivot hole of the base.
- 2. Slide the other side down the ridge until it clicks into place.

⚠ WARNING

- Make sure that you arrange the air tubing so that it will not twist around the head or neck.
- Regularly inspect power cords, cables, and power supply for damage or signs of wear.
 Discontinue use and replace if damaged.
- Keep the power cord away from hot surfaces.
- If you notice any unexplained changes in the performance of the device, if it is making
 unusual sounds, if the device or the power supply are dropped or mishandled, or if the
 enclosure is broken, discontinue use and contact your care provider or your ResMed
 Service Centre.
- Do not open or modify the device. There are no user serviceable parts inside. Repairs and servicing should only be performed by an authorised ResMed service agent.
- Beware of electrocution. Do not immerse the device, power supply or power cord in water.
 If liquids are spilled into or onto the device, unplug the device and let the parts dry. Always
 unplug the device before cleaning and make sure that all parts are dry before plugging it
 back in.

- Supplemental oxygen must not be used while smoking or in the presence of an open flame.
- Always make sure that the device is turned on and airflow generated before the oxygen supply is turned on. Always turn the oxygen supply off before the device is turned off, so that unused oxygen does not accumulate within the device enclosure and create a risk of fire.
- Do not perform any maintenance tasks while the device is in operation.
- The device should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the device should be observed to verify normal operation in the configuration in which it will be used.
- The use of accessories other than those specified for the device is not recommended. They may result in increased emissions or decreased immunity of the device.
- Regularly check the antibacterial filter for signs of moisture or other contaminants, particularly during nebulization or humidification. Failure to do so could result in increased breathing system resistance.

⚠ CAUTION

- Use only ResMed parts and accessories with the device. Non-ResMed parts may reduce the
 effectiveness of the treatment and/or damage the device.
- Use only vented masks recommended by ResMed or by the prescribing doctor with this
 device. Fitting the mask without the device blowing air can result in rebreathing of exhaled
 air. Make sure that the mask vent holes are kept clear and unblocked to maintain the flow
 of the fresh air into the mask.
- Be careful not to place the device where it can be bumped or where someone is likely to trip over the power cord.
- Blocking the air tubing and/or air inlet of the device while in operation could lead to overheating of the device.
- Keep the area around the device dry, clean and clear of anything (eg, clothes or bedding) that could block the air inlet or cover the power supply unit.
- Do not place the device on its side as water might get into the device.
- Incorrect system setup may result in incorrect mask pressure reading. Ensure the system is correctly set up.
- Do not use bleach, chlorine, alcohol, or aromatic-based solutions, moisturising or antibacterial soaps or scented oils to clean the device, the humidifier or air tubing. These solutions may cause damage or affect the humidifier performance and reduce the life of the products. Exposure to smoke, including cigarette, cigar or pipe smoke, as well as ozone or other gases, may damage the device. Damage caused by any of the foregoing, will not be covered by ResMed's limited warranty.
- If you use the humidifier, always place the device on a level surface lower than your head to prevent the mask and air tubing from filling with water.
- Leave the humidifier to cool for ten minutes before handling to allow the water to cool and to make sure that the humidifier is not too hot to touch.
- Make sure that the humidifier is empty before transporting the device.

Note: For any serious incidents that occur in relation to this device, these should be reported to ResMed and the competent authority in your country.

Technical specifications

Units are expressed in cm H₂O and hPa. 1 cm H₂O is equal to 0.98 hPa.

90\//	power	sunn	ıΙν	unit

AC input range: 100–240V, 50–60Hz 1.0–1.5A, Class II

115V, 400Hz 1.5A, Class II (nominal for aircraft use)

DC output: 24V ==== 3.75A

Typical power consumption: 53W (57VA)
Peak power consumption: 104W (108VA)

Environmental conditions

Operating altitude:

Operating temperature: +5°C to +35°C

Note: The air flow for breathing produced by this therapy device can be higher than the temperature of the room. Under extreme ambient temperature conditions (40°C) the

device remains safe.

Operating humidity: 10 to 95% relative humidity, non-condensing

Sea level to 2,591 m; air pressure range 1013 hPa to

738 hPa

Storage and transport temperature: -20°C to +60°C

Storage and transport humidity: 5 to 95% relative humidity, non-condensing

Electromagnetic compatibility

The AirSense 10 complies with all applicable electromagnetic compatibility requirements (EMC) according to IEC 60601-1-2:2014, for residential, commercial and light industry environments. It is recommended that mobile communication devices are kept at least 1 m away from the device.

Information regarding the electromagnetic emissions and immunity of this ResMed device can be found on www.resmed.com/downloads/devices

Classification: EN60601-1:2006/A1:2013

Class II (double insulation), Type BF, Ingress protection IP22.

Sensors

Pressure sensor: Internally located at device outlet, analog gauge pressure

type, 0 to 40 cm H₂O (0 to 40 hPa)

Flow sensor: Internally located at device inlet, digital mass flow

type. -70 to +180 L/min

Maximum single fault steady pressure

Device will shut down in the presence of a single fault if the steady state pressure exceeds:

30 cm H₂O (30 hPa) for more than 6 sec or 40 cm H₂O (40 hPa) for more than 1 sec.

Sound

Pressure level measured according to ISO 80601-2-70:2015 (CPAP mode):

SlimLine: 25 dBA with uncertainty of 2 dBA
Standard: 25 dBA with uncertainty of 2 dBA
SlimLine or Standard and humidification: 27 dBA with uncertainty of 2 dBA

Power level measured according to ISO 80601-2-70:2015 (CPAP mode):

SlimLine: 33 dBA with uncertainty of 2 dBA Standard: 33 dBA with uncertainty of 2 dBA SlimLine or Standard and humidification: 35 dBA with uncertainty of 2 dBA

Declared dual-number noise emission values in accordance with ISO 4871:1996.

Physical - device and humidifier	Physical	- (device	and	humidifier
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116 mm x 255 mm x 150 mm Dimensions (H x W x D):

Air outlet (complies with ISO 5356-1:2015): 22 mm Weight (device and cleanable humidifier): 1248 a

Housing construction: Flame retardant engineering thermoplastic

Water capacity: To maximum fill line 380 mL

Cleanable humidifier - material: Injection moulded plastic, stainless steel and silicone seal

Temperature

Maximum heater plate: 68°C 74°C Cut-out: Maximum gas temperature: < 41°C

Air filter

Standard: Material: Polvester non woven fibre

Average arrestance: >75% for ~7 micron dust

Material: Acrylic and polypropylene fibres in a polypropylene Hypoallergenic:

carrier

Efficiency: >98% for ~7-8 micron dust: >80% for ~0.5 micron

dust

Aircraft use

ResMed confirms that device meets the Federal Aviation Administration (FAA) requirements (RTCA/D0-160, section 21, category M) for all phases of air travel.

Wireless module

Technology used:

4G. 3G. 2G

It is recommended that the device is a minimum distance of 0.8" (2 cm) from the body during operation. Not applicable to masks, tubes or accessories. Technology may not be available in all regions.

Declaration of Conformity (DoC to the Radio Equipment Directive)



ResMed declares that the AirSense 10 device (models 370xx or 371xx) is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU (RED). A copy of the Declaration of Conformity (DoC) can be found on Resmed.com/productsupport

The 2G radio equipment operates with the following frequency bands and maximum radio-frequency power:

GSM 850/900: 35dBm

GSM 1800/1900: 32dBm

The 4G device can be used in all European countries without any restrictions.

All ResMed devices are classified as medical devices under the Medical Device Directive. Any labelling of the product and

€0123. relates to the Council Directive 93/42/EEC including the Medical Device Directive printed material, showing amendment (2007/47/EC).

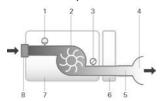
Operating pressure range

AutoSet, CPAP: 4 to 20 cm H₂O (4 to 20 hPa)

Supplemental oxygen

Maximum flow: 4 L/min

Pneumatic flow path



- 1. Flow sensor
- 2 Blower
- 3. Pressure sensor
- 4. Mask
- 5. Air tubing
- 6. Humidifier
- 7. Device 8. Inlet filter

Design life

Device, power supply unit:	5 years
Cleanable humidifier:	2.5 years
Air tubing:	6 months

General

The patient is an intended operator.

Humidifier performance

Mask Pressure cm H₂O (hPa)	RH output % at 17°C ambient temperature	RH output % at 22°C ambient temperature	Nominal system	output AH ¹ , BTPS ²
	Setting 4	Setting 8	Setting 4	Setting 8
4	85	100	6	>10
10	85	100	6	>10
20	85	90	6	>10

¹ AH - Absolute Humidity in mg/L

Air tubing

Air tubing	Material	Length	Inner diameter
ClimateLineAir	Flexible plastic and electrical components	2 m	15 mm
ClimateLineAir Oxy	Flexible plastic and electrical components	1.9 m	19 mm
SlimLine	Flexible plastic	1.8 m	15 mm
Standard	Flexible plastic	2 m	19 mm
Heated air tubing tem	perature cut-out: ≤ 41°C		

Notes:

- The manufacturer reserves the right to change these specifications without notice.
- The electrical connector end of the heated air tubing is only compatible with the air outlet at the device end and should not be fitted to the mask.
- Do not use electrically conductive or antistatic air tubing.
- The temperature and relative humidity settings displayed are not measured values.

Displayed values

Value	Range	Display resolution
Pressure sensor at air outlet:		
Mask pressure	4-20 cm H ₂ 0 (4-20 hPa)	0.1 cm H ₂ O (0.1 hPa)
Flow derived values:		
Leak	0-120 L/min	1 L/min

² BTPS - Body Temperature Pressure Saturated

Value	Accuracy
Pressure measurement ¹ :	
Mask pressure ²	$\pm [0.5 \text{ cm H}_20 (0.5 \text{ hPa}) + 4\% \text{ of measured value}]$
Flow and flow derived values1:	
Flow	±6 L/min or 10% of reading, whichever is greater, at 0 to 150 L/min positive flow
Leak ²	±12 L/min or 20% of reading, whichever is greater, 0 to 60 L/min

¹ Results are expressed as STPD (Standard Temperature and Pressure, Dry).

Measurement system uncertainties

In accordance with ISO 80601-2-70:2015 the measurement uncertainty of the manufacturer's test equipment is:

For measures of flow	± 1.5 L/min or ± 2.7% of reading (whichever is greater)
For measures of volume (< 100 mL)	± 5 mL or 6% of reading (whichever is greater)
For measures of volume (≥ 100 mL)	± 20 mL or 3% of reading (whichever is greater)
For measures of static pressure	± 0.15 cm H ₂ O (hPa)
For measures of dynamic pressure	± 0.27 cm H ₂ O (hPa)
For measures of time	± 10 ms

Note: ISO 80601-2-70:2015 stated accuracies and test results provided in this manual for these items already include the relevant measurement uncertainty from the table above.

Pressure accuracy

Maximum static pressure variation at 10 cm H ₂ O (10 hPa) according to ISO 80601-2-70:2015			
	Standard air tubing	SlimLine air tubing	
Without humidification	± 0.5 cm H ₂ O (± 0.5 hPa)	\pm 0.5 cm H ₂ O (\pm 0.5 hPa)	
With humidification	± 0.5 cm H_2O (± 0.5 hPa)	$\pm 0.5 \text{ cm H}_2\text{O} (\pm 0.5 \text{ hPa})$	

Maximum dynamic pressure variation according to ISO 80601-2-70:2015

Device without humidification	n and Standard a	iir tubing / Device with humidification a	ind Standard air tubing
Pressure [cm H ₂ O (hPa)]	10 BPM	15 BPM	20 BPM
4	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
8	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
12	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
16	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
20	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8

Device without humidification and SlimLine air tubing / Device with humidification and SlimLine air tubing

Pressure [cm H₂O (hPa)]	10 BPM	15 BPM	20 BPM
4	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
8	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
12	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
16	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8
20	0.5 / 0.5	0.5 / 0.5	0.8 / 0.8

² Accuracy may be reduced by the presence of leaks, supplemental oxygen, tidal volumes <100 mL or minute ventilation <3 L/min.

³ Measurement accuracy verified as per EN ISO 10651-6:2009 for Home Care Ventilatory Support Devices (Figure 101 and Table 101) using nominal ResMed mask vent flows.

Flow (maximum) at set pressures

The following are measured accordingly to ISO 80601-2-70:2015 at the end of the specified air tubing:

Pressure	AirSense 10 and Standard	AirSense 10, humidification and Standard	AirSense 10 and SlimLine	AirSense 10, humidification and ClimateLineAir
cm H₂O (hPa)	L/min	L/min	L/min	L/min
4	180	143	162	151
8	168	135	151	142
12	157	136	140	135
16	144	134	128	121
20	131	123	117	109

Resistance to flow

The table illustrates the resistance to flow of the air tubing:

Air tubing	At flow (L/min) with pressure of 20 cm $\rm H_2O$	Resistance to flow (cm H ₂ O/L/min)	
		Air tubing with tubing elbow	Air tubing only
Standard	30	0.006	0.005
	15	0.005	0.004
SlimLine	30	0.008	0.007
	15	0.006	0.006
ClimateLineAir	30	-	0.011
	15	-	0.008
ClimateLineAir Oxy	30	-	0.004
	15	-	0.002

Compliance

The table illustrates the compliance of the air tubing:

Air tubing	Compliance (cm H ₂ O/L/min) with pressure of 60 cm H ₂ O			
	Air tubing with tubing elbow	Air tubing only		
Standard	1.074	1.056		
SlimLine	0.467	0.454		
ClimateLineAir	-	0.482		
ClimateLineAir Oxy	-	0.729		