

AirSense[™]10 AUTOSET

AUTOSET FOR HER

ELITE

CPAP



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Welcome

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

⚠ WARNING

Read this entire guide before using the device.

△ CAUTION

In the US, Federal law restricts this device to sale by or on the order of a physician.

Indications for use

AirSense 10 AutoSet

The AirSense 10 AutoSet self-adjusting device is indicated for the treatment of obstructive sleep apnea (OSA) in patients weighing more than 66 lb (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 AutoSet for Her

The AirSense 10 AutoSet for Her self-adjusting device is indicated for the treatment of obstructive sleep apnea (OSA) in patients (female patients with mild to moderate OSA when using AutoSet for Her treatment mode) weighing more than 66 lb (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 Flite

The AirSense 10 Elite device is indicated for the treatment of obstructive sleep apnea (OSA) in patients weighing more than 66 lb (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 CPAP

The AirSense 10 CPAP device is indicated for the treatment of obstructive sleep apnea (OSA) in patients weighing more than 66 lb (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.

Contraindications

Positive airway pressure therapy may be contraindicated in some patients with the following preexisting conditions:

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

Adverse effects

Patients should report unusual chest pain, severe headache, or increased breathlessness to their 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

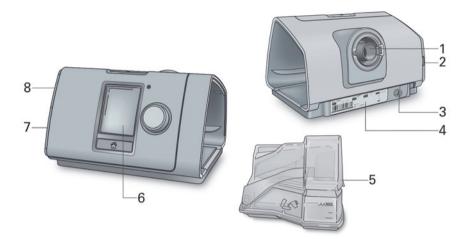
The AirSense 10 includes the following:

- Device with HumidAir[™] integrated humidifier
- Water tub
- Air tubing
- · Power supply unit
- Travel bag
- SD card (already inserted).

A range of accessories are available for use with the device including:

- Air tubing (heated and non-heated): ClimateLineAir[™], SlimLine[™], Standard
- Water tub: Standard water tub (for single patient use only, cannot be disinfected), cleanable water tub (for multi-patient use, can be disinfected)
- Filter: Hypoallergenic filter, standard filter
- Air10[™] DC/DC converter
- SD card reader
- Air10 oximeter adapter
- Air10 USB adapter.

Note: Make sure all parts and accessories used with the device are compatible. For compatibility information, refer to www.resmed.com.



- Air outlet
- Air filter cover
- 3 Power inlet
- Serial number and device number
- Water tub
- Screen
- Adapter cover
- 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



Wireless signal strength (green)



Ramp Time Auto



Humidity



Humidifier warming



Humidifier cooling







Airplane Mode

Therapy information

The following modes are available on the AirSense 10 device:

Device		Modes available	
	AutoSet	AutoSet for Her	CPAP
AirSense 10 AutoSet	✓		✓
AirSense 10 AutoSet for Her	✓	✓	✓
AirSense 10 Elite			✓
AirSense 10 CPAP			✓

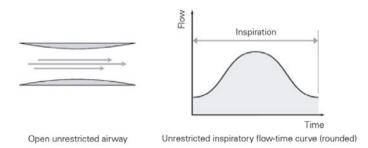
AutoSet mode

The treatment pressure required by the patient may vary due to changes in sleep state, body position and airway resistance. In AutoSet mode, the device provides only that amount of pressure required to maintain upper airway patency.

The device analyzes the state of the patient's upper airway on a breath-by-breath basis and delivers pressure within the allowed range according to the degree of obstruction. The AutoSet algorithm adjusts treatment pressure as a function of three parameters: inspiratory flow limitation, snore, and apnea.

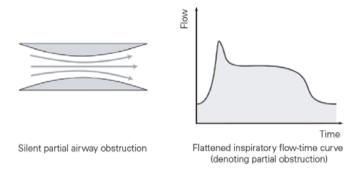
Normal airway

When the patient is breathing normally, the inspiratory flow measured by the device as a function of time shows a typically rounded curve for each breath.



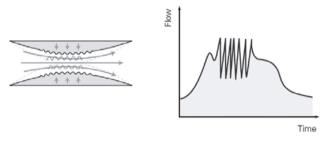
Flow limitation

As the upper airway begins to collapse, the shape of the inspiratory flow-time curve changes. The AirSense 10 recognizes and treats traditional as well as less common flow-limited breath wave forms.



Snore

Snoring is sound generated by vibrations of the walls of the upper airway. It is often preceded by flow limitation or a partial obstruction of the airway.



Noisy partial airway obstruction

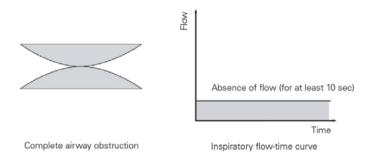
Snore superimposed on inspiratory flow-time curve

Apnea

The enhanced AutoSet algorithm detects both obstructive and central apneas. If an apnea occurs, the device responds appropriately.

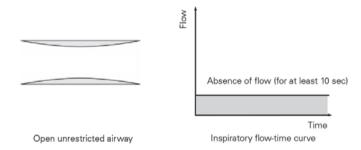
Obstructive apnea

An obstructive apnea is when the upper airway becomes severely limited or completely obstructed. AutoSet generally prevents obstructive apneas from occurring by responding to flow limitation and snoring. If an obstructive apnea occurs, the device will respond by increasing pressure.



Central apnea

During a central apnea, the airway will remain open, but there is no flow. When a central apnea is detected, the device responds appropriately by not increasing pressure.



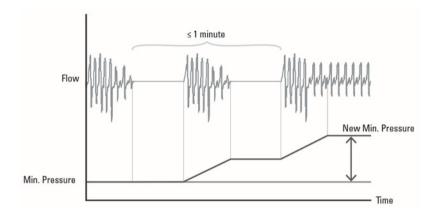
AutoSet for Her mode

AutoSet for Her mode is based on key aspects of ResMed's AutoSet algorithm and delivers therapeutic responses tailored to the characteristics of female OSA patients.

The AutoSet for Her is similar to ResMed's AutoSet algorithm with the following modifications:

- Reduced rate of pressure increments designed to help prevent arousals.
- Slower pressure decays.
- Treats apneas up to 12 cm H₂O and continues to respond to flow limitation and snore up to 20 cm H₂O.

Minimum pressure (Min. Pressure) that adjusts according to the frequency of apneas:
 If two apneas occur within a minute, the pressure reached in response to the second apnea will become the new minimum treatment pressure until the next treatment session.



Patients who use AutoSet for Her will still get the benefits of ResMed's AutoSet technology including improved sensitivity to flow-limitation and Central Sleep Apnoea Detection with Forced Oscillation Technique.

CPAP mode

In CPAP mode, a fixed pressure is delivered—with optional Expiratory Pressure Relief (EPR™).

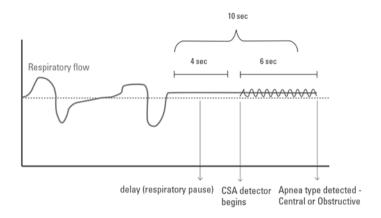
Reporting

The AirSense 10 reports Respiratory Effort Related Arousals (RERA), and detects Central Sleep Apnea (CSA) and Cheyne-Stokes Respiration (CSR). The summary and detailed data of these parameters are available to view on ResMed's patient compliance software (data availability depends on device mode and parameter measured).

Central sleep appea detection

Available in all modes on the AirSense 10 AutoSet, AirSense 10 AutoSet for Her and the AirSense 10 Elite.

The device detects both obstructive and central sleep apneas (CSA). CSA detection uses the Forced Oscillation Technique (FOT) to determine the state of the patient's airway during an apnea. When an apnea has been detected, small oscillations in pressure (1 cm H₂O peak-to-peak at 4 Hz) are added to the current device pressure. The CSA detection algorithm uses the resulting flow and pressure (determined at the mask) to measure the airway patency.

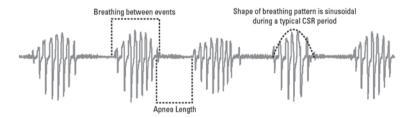


Cheyne-Stokes respiration detection

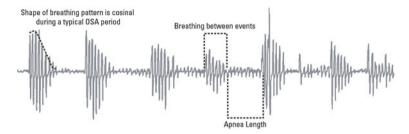
Available in all modes on the AirSense 10 AutoSet, AirSense 10 AutoSet for Her and the AirSense 10 Elite.

Cheyne-Stokes respiration (CSR) is a form of sleep-disordered breathing characterized by a periodic waxing and waning of respiration. The waxing periods (hyperpneas, typically 40 seconds in length) can include large gasping breaths that tend to arouse the patient while the waning periods (hyperpneas or apneas, typically 20 seconds in length) cause blood oxygen desaturations.

The following example shows a typical CSR period.



The following example suggests periodic breathing due to the frequently occurring apneas. However, when looking closely at the shape of the hyperpneas it can be seen that it is a typical OSA period.



The AirSense 10 device reports the time during therapy in which it detected breathing patterns indicative of CSR. It analyzes the patient's respiratory flow for apnea/hypopnea events, calculates the time between these events, and characterizes the shape of breathing between them.

Respiratory effort related arousals reporting

Respiratory Effort Related Arousals (RERA) reporting is available on the AirSense 10 AutoSet for Her in all modes

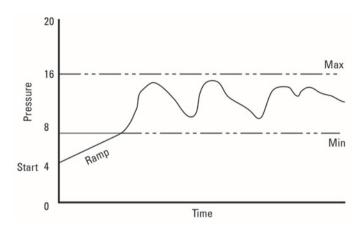
RERAs are periods of increasing respiratory effort which are terminated by an arousal. Increasing respiratory effort will be seen as airflow limitation. These flow-based RERA events are logged and stored as summary and/or detailed data and can then be viewed in one of ResMed's patient management systems.

Comfort features

Ramp

Designed to make the beginning of treatment more comfortable, ramp is available in all modes.

In AutoSet and AutoSet for Her mode, ramp time defines the period during which the pressure gradually increases from a lower more comfortable start pressure to the minimum treatment pressure before the auto-adjusting algorithm commences.



In CPAP mode, the pressure increases from a low pressure (Start Pressure) to the prescribed treatment pressure.

Ramp Time can be set to Off, 5 to 45 minutes or Auto. When Ramp Time is set to Auto, the device will detect sleep onset and then gradually increase from the start pressure to the minimum treatment pressure at a rate of 1 cm H_2O per minute. However, if sleep onset is not detected, the device will reach the target pressure within 30 minutes.

Expiratory Pressure Relief

Designed to make therapy more comfortable, Expiratory Pressure Relief (EPR) maintains optimal treatment for the patient during inhalation and reduces the delivered mask pressure during exhalation.

EPR On—EPR is enabled.

Off-EPR is disabled.

The following settings are only available if EPR is On:

EPR Type Full Time—If set to Full Time, EPR is enabled for the whole therapy session.

Ramp Only—If set to Ramp Only, EPR is only enabled during ramp time.

EPR Level 1, 2, 3 cm H₂O

When EPR is enabled, the delivered pressure will not drop below a minimum pressure of 4 cm H_2O , regardless of the settings.

Climate Control

Climate Control is an intelligent system that controls the humidifier and the ClimateLineAir heated air tubing to deliver constant, comfortable temperature and humidity levels during therapy.

Designed to prevent dryness of the nose and mouth, it maintains the set temperature and relative humidity while you sleep. Climate Control can be set to either Auto or Manual and is only available when both the ClimateLineAir and the HumidAir humidifier are attached.

Climate Control Auto

Climate Control Auto is the recommended and default setting. Climate Control Auto is designed to make therapy as easy as possible, so there is no need to change the temperature or humidity settings.

The Tube Temperature is set to 80°F (27°C) and Climate Control adjusts the humidifier output to maintain a constant, comfortable humidity level of 85% relative humidity while protecting against rainout (water droplets in the air tubing and mask).

Climate Control Manual

Designed to offer more flexibility and control over settings, Climate Control Manual lets the patient adjust the temperature and humidity to the setting which is most comfortable for them.

In Climate Control Manual, the Tube Temperature and the Humidity Level can be set independently however, rainout protection is not guaranteed. If rainout does occur, first try increasing the tube temperature. If the air temperature becomes too warm and rainout continues, try decreasing the humidity.

Tube Temperature

If the air in the mask feels too warm or too cold, the patient can adjust the temperature to find what is most comfortable or turn it off completely. The Tube Temperature can be set to anywhere between 60–86°F (16–30°C).

The temperature sensor located at the mask end of the ClimateLineAir heated air tubing enables the system to automatically control the temperature of the air delivered to the patient. This ensures the temperature of the air delivered to the patient does not fall below the set minimum temperature, therefore maximizing breathing comfort for the patient.

Humidity Level

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

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

For each humidifier setting, the Climate Control system delivers a constant amount of water vapor, or absolute humidity (AH), to the patient's upper airway.

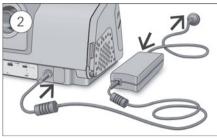
Automatic adjustment

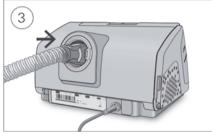
The humidifier and ClimateLineAir heated air tubing are controlled by the Climate Control algorithm to deliver constant humidity and temperature outputs. The system adjusts automatically to changes in:

- ambient room temperature and humidity values
- flow due to pressure changes
- flow due to mask or mouth leak

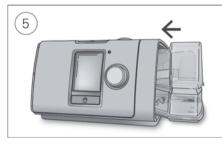
Setup

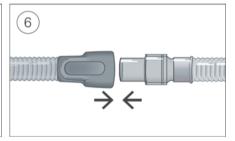












△ CAUTION

Do not overfill the water tub 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 water tub and fill it with distilled water up to the maximum water level mark. Do not fill the water tub with hot water.
- 5. Close the water tub 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.

Supplemental oxygen

The AirSense 10 device is designed to be compatible with up to 4 L/min of supplemental oxygen in all modes.

At a fixed rate of supplemental oxygen flow, the inhaled oxygen concentration will vary depending on the pressure settings, patient breathing pattern, mask selection and the leak rate.

To connect supplemental oxygen to the device you need to connect an oxygen connector port. For more information on how to set up the device with supplemental oxygen, refer to the user guide supplied with that accessory.

Notes:

- Adding oxygen may affect the delivered pressure and the accuracy of the displayed leak and minute ventilation.
- Before adding oxygen, familiarize yourself and your patient with the specific warnings relating to the use of supplemental oxygen. These can be found at the end of this guide.

Antibacterial filters

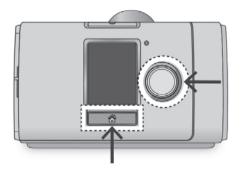
Antibacterial filters increase resistance in the air circuit and may affect accuracy of displayed and delivered pressure, particularly at high flows.

ResMed recommends using an antibacterial filter with a low impedance (eg, $2 \text{ cm H}_2\text{O}$ at 60 L/min), such as PALL (BB50T), Air Safety Filter without Luer Port (4222/702) or Air Safety Filter with Side Port 24966 (4222/701). If using the Air Safety Filter with Side Port, an Oxygen Connector Port is required.

Accessing and exiting the Clinical Menu

You can access, view and set parameters relating to a patient's therapy and device configuration in the Clinical Menu

To access the Clinical Menu:



To exit the Clinical Menu:

- Press and hold the dial and the Home button for three seconds.
- Select Exit Clinical Menu from the Home screen.

The device will automatically exit the Clinical Menu after 20 minutes of inactivity.

Adjusting the clinical settings







- Access the Clinical Menu, highlight Settings and press the dial. The Settings menu is displayed.
- 2. Turn the dial to highlight the setting you want to adjust and then press the dial.
- 3. Turn the dial to adjust the setting and press the dial to save the change.

The settings can be changed in different ways depending on the type of screen:



Turn the dial to edit live in the menu.



Turn the dial to change the setting.



Select from a list of options.

Setting the date and time

Before you set up a new patient and start therapy for the first time, make sure you set the correct local date and time on the device. If you set the date and time after starting therapy, you may lose patient data.







- 1. In **Settings** menu, select **Date** and change the setting to the correct date.
- 2. Select **Time** and change it to the correct local time.
- 3. Make sure the correct local time and date has been applied.

The AirSense 10 settings must be configured for each individual patient. The settings should be periodically reassessed to ensure optimal therapy.

Settings menu

You set all parameters relating to a patient's therapy and device configuration in the **Settings** menu.

Therapy

Parameter	Description	AutoSet	Mode AutoSet for Her	CPAP	Range
Mode	Sets the therapy mode available on the device.	✓	✓	✓	
Min Pressure	Sets the lower limit of treatment pressure.	✓	✓		4-Max cm H ₂ O, 0.2 cm H ₂ O increments
Max Pressure	Sets the upper limit of treatment pressure.	✓	✓		Min–20 cm H_2O , 0.2 cm H_2O increments

Set Pressure	Sets the fixed treatment pressure.			✓	$4-20\ cm\ H_2O$, $0.2\ cm\ H_2O$ increments
Mask	Select the type of mask used by the patient. Refer to Mask Device Compatibility List on www.resmed.com.	✓	✓	✓	Full Face / Nasal / Pillows

Comfort

Parameter	Description	AutoSet	Mode AutoSet for Her	CPAP	Range
Ramp Time	If Auto is selected, the device will detect sleep onset and automatically rise to the prescribed treatment pressure.	✓	✓	✓	Off / 5–45 mins / Auto
Start Pressure	Set the pressure at the start of ramp, up to treatment pressure.	✓	✓	✓	4-Set pressure, 0.2 cm H ₂ O increments
EPR	Enable / disable EPR.	✓	✓	✓	On / Off
EPR Type	Available when EPR is enabled.	✓	✓	✓	Full Time / Ramp Only
EPR Level	Set the EPR value.	✓	✓	✓	1 / 2 / 3 cm H ₂ O
Climate Ctrl	Available when water tub is used and ClimateLineAir heated air tubing is connected.	✓	✓	✓	Manual / Auto
Tube Temp.	Set the minimum temperature of air delivered by heated air tubing such as ClimateLineAir.	✓	✓	✓	Off / 60–86°F (16–30°C), 1° increments
Humidity Level	Set the humidity level.	✓	✓	✓	Off / 1–8

Accessories

Parameter	Description	Range
Tube	Select the type of air tubing used by the patient. ClimateLineAir air tubing is automatically detected when connected to the device.	SlimLine / Standard
AB filter	Select Yes if you attach an antibacterial filter.	No / Yes
View oximeter	Displayed at all times when an oximeter is connected.	0-300 hrs 0-100% SpO ₂

Options

Parameter	Description	Range
Essentials	Set the level of access available to the patient.	On / Plus
SmartStart™	Enable / disable the SmartStart feature. If you enable the SmartStart feature, the device will start automatically when the patient breathes into the mask and then stop automatically when the patient removes the mask.	Off / On
Reminders		
Mask	Set a recurring reminder to the patient to replace the mask.	Off / 1– 24 mths, 1 month increments
Water tub	Set a recurring reminder to the patient to replace the water tub.	Off / 1–24 mths, 1 month increments
Tube	Set a recurring reminder to the patient to replace the air tubing.	Off / 1–24 mths, 1 month increments
Filter	Set a recurring reminder to the patient to replace the air filter.	Off / 1–24 mths, 1 month increments

Configuration

Parameter	Description	Selection
Language	Set the display language.	English / Français / Español /
	(Not all languages available in all regions.)	Português
Date	Set the current date.	DD Mmm YYYY
	If you set a new date that occurs in the past then an error message is displayed. Before this change can be made, erase the compliance data available under the Configuration menu.	
Time	Set the current time.	24 hours
	If you set a new time that occurs in the past then an error message is displayed. Before this change can be made, erase the compliance data available under the Configuration menu.	
Press. Units	Set the unit of pressure in which pressure is displayed.	cm H₂O / hPa
Temp. Units	Set the temperature units.	°F/°C
Restore Defaults		
Erase Data	Erase all data stored on the device and the SD card. Settings, date, time Yes / No and device run hours are not affected.	
About	View Run Hours, SN, SW, provider, type, service and signal strength of the device, CX number, humidifier and internal modem.	

Starting therapy

- 1. Direct the patient to fit their mask.
- 2. Direct the patient to press Start/Stop, or if the SmartStart feature is enabled, direct them to breathe into their mask.

Therapy will begin and 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. Direct the patient to remove the mask.
- 2. Direct the patient to press Start/Stop, or if SmartStart is enabled, therapy will stop automatically after a few seconds.

The Sleep Report now provides a summary of the therapy session.

Viewing the Sleep Report

The Sleep Report screen shows sleep quality and mask seal status for the most recent therapy session. Turn the dial to scroll down to view more detailed usage data. The parameters displayed will depend on the therapy mode.







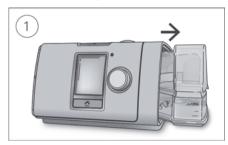
Sleep Report screen parameters

Parameter	Description		
Usage hours	Number of hours the device has been used during the last session.		
Events (AHI) per hour	Apneas and hypopneas measured per hour for one day. An apnea is when the respiratory flow decreases by more than 75% for at least 10 sec. A hypopnea is when the respiratory flow decreases to 50% for at least 10 sec. The Apnea Index (AI) and Apnea-Hypopnea Index (AHI) are calculated by dividing the total number of events that occurred by the total mask-on therapy period in hours.		
	Note: Under conditions of high leak with EPR enabled, AHI detection may not be optimal.		
Mask Seal	Good—if the 70 th percentile leak is less than 24 L/min.		
	Mask needs adjustment.		
Humidifier	Humidifier attached and functional.		
	Humidifier fault; refer to troubleshooting section.		
More Info			
Period	Set the time interval covered by the Sleep Report.		
	The options are: 1 Day / 1 Week / 1 Month / 3 Months / 6 Months / 1 Year		
Days Used	Number of days the device has been used during the selected period or since the last compliance data was reset.		
Days 4hrs+	Number of days the device has been used for more than 4 hours during the selected period or since the last compliance data was reset.		
Avg. Usage	Average number of hours per day the device has been used during the selected period.		
Used Hrs	Number of hours the device has been used during the selected period or since the last compliance data reset.		
Pressure	Average pressure during the selected period (95 th percentile for each day; average of the 95 th percentile values for periods >1 day).		
Leak	Average of the 95 th percentile values of leak during the selected period for days with usage only.		
АНІ	Apnea-Hypopnea Index—average AHI during the selected period. AHI and AI are calculated for times of low leak only.		
Total Al	Apnea Index—average total Al during the selected period.		
Central Al	Central Apnea Index—average CAI of the Days Used in the selected period.		

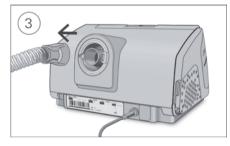
Cleaning and Maintenance

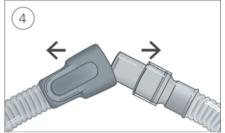
It is important that the AirSense 10 device is cleaned regularly to ensure optimal therapy. The following sections will help with disassembling, cleaning, checking and reassembling the device.

Disassembling









- 1. Hold the water tub at the top and bottom, press it gently and pull it away from the device.
- 2. Open the water tub 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 the mask.

- 1. Wash the water tub and air tubing in warm water using mild detergent.

 Do not wash in a dishwasher or washing machine.
- 2. Rinse the water tub 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.

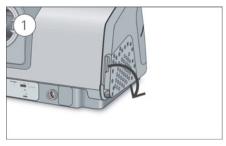
Checking

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

- 1. Check the water tub:
 - 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 it more often if there are any holes or blockages by dirt or dust.

To replace the air filter:





- 1. Open the air filter cover and remove the old air filter.
 The air filter is not washable or reusable.
- 2. 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 water tub 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.
- 2. Open the water tub and fill it with distilled room temperature water up to the maximum water level mark.
- 3. Close the water tub and insert it into the side of the device.
- 4. Connect the free end of the air tubing firmly onto the assembled mask.

Reprocessing

When the device is used for multiple patients, for example, in a sleep lab, clinic, hospital or at a health care provider, the cleanable water tub, air outlet and air tubing should be reprocessed between each patient use.

If the cleanable water tub or the air tubing are being used for a single user in the home, refer to the cleaning instructions in this guide or in the User Guide.

Described here are ResMed's recommended and validated procedures for cleaning and disinfecting the cleanable water tub, air outlet and air tubing. However, the steps for disinfection vary regionally and each healthcare facility should consult its own procedures before carrying out those within this quide.

Note: The standard water tub cannot be disinfected. If contaminated, it must be discarded and replaced with a new water tub.

⚠ WARNING

- ResMed cannot give any assurance that deviations from the procedures listed in this guide, and their effect on the performance of the product, will be acceptable.
- When using detergents, disinfectants or sterilization agents, always follow the manufacturer's instructions.
- 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.

Surface disinfection

- Wipe the exterior of the device including display, externally accessible ports, power supply unit and accessories with a disposable cloth and mild detergent or alcohol disinfectant (see list below).
- 2. Remove any excess disinfectant with a disposable dry cloth.

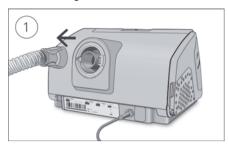
Agents recommended for surface disinfection and cleaning:

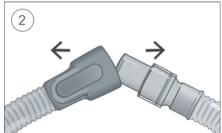
- Warm water and mild detergent eg, Teepol[™] multipurpose detergent
- Window cleaner or other premixed surface detergent
- Methyl alcohol solution
- 70% Ethyl alcohol solution
- 70-90% Isopropanol solution
- 10% Bleach solution
- Isopropyl wipes
- CaviCide[™]
- Mikrozid®
- Actichlor[™] Plus
- Terralin®.

Note: Agents may not be available in all regions.

Reprocessing the air tubing

Disconnecting





- 1. Hold the cuff of the air tubing and gently pull it away from the device.
- 2. Hold both the cuff of the air tubing and the swivel of the mask, then gently pull apart.

Decontaminating

Before the disinfection process, each component must be cleaned and rinsed so no visible contamination is present.

- 1. Clean all components with a soft bristled brush for one minute while soaking in detergent solution (see table below). Pay particular attention to all crevices and cavities.
- 2. Run the detergent solution through the air tubing repeatedly until no contamination is visible.
- 3. Thoroughly rinse each component according to the detergent manufacturer's instructions.

ResMed has tested the following detergents according to the manufacturer's instructions:

Detergent	Water temperature	SlimLine	ClimateLineAir	Standard
Alconox [™] (diluted at 1%)	Hot water (approx 140°F or 60°C) Warm water (approx 113 to 140°F or 45 to 60°C) Room temperature water (approx 70°F or 21°C)	✓	✓	✓
Neodisher MediZym [™] (diluted at 2.0%)	Warm water (approx 113 to 140°F or 45 to 60°C)	✓	✓	✓

High level thermal disinfection

Part	Validated number of cycles Hot water: 167°F (75°C) for 30 minutes.	
SlimLine	20	
ClimateLineAir	10	
Standard	100	

- 1. Immerse the air tubing in a water bath.

 Take care that no air bubbles are trapped inside the air tubing.
- 2. Increase the water bath temperature to 167°F (75°C) for 30 minutes. Higher temperatures may damage the tubing.
- 3. Air dry out of direct sunlight and/or heat.

Inspecting

Perform a visual inspection of the air tubing. If any visible deterioration is apparent (holes, tears or cracks etc), the air tubing should be discarded and replaced. Slight discoloration may occur and is acceptable.

Packaging and storage

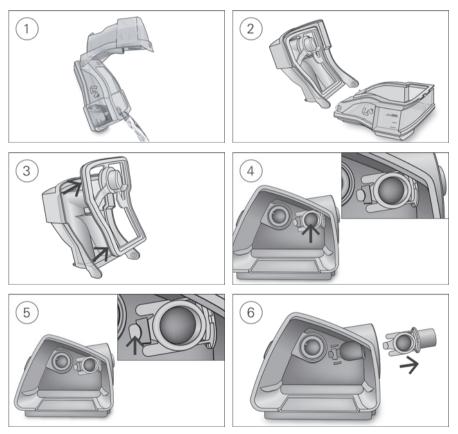
Store in a dry, dust-free environment away from direct sunlight.

Storage temperature: -4°F to 140°F (-20°C to 60°C).

Reprocessing the water tub and air outlet

Disassembling

The following instructions provide guidance on how to correctly disassemble the cleanable water tub and the air outlet.



- 1. Remove the water tub from the device, open it and discard any remaining water.
- 2. Hold the water tub base and then fully open the water tub lid and pull it away so that it easily detaches from the base.
- 3. Remove the water tub seal from the water tub lid by pulling it away.
- 4. Locate the air outlet on the inside of the device.

- 5. Release the air outlet by pressing the clip located inside the device.
- 6. Remove the air outlet by pulling it out through the air outlet socket at the rear of the device.

Decontaminating

Before the disinfection process, each component must be cleaned and rinsed so no visible contamination is present.

- 1. Clean all components with a soft bristled brush for one minute while soaking in detergent solution (see table below). Pay particular attention to all crevices and cavities.
- 2. Thoroughly rinse each component according to the detergent manufacturer's instructions.

ResMed has tested the following detergents according to the manufacturer's instructions:

Detergent	Water temperature	Cleanable water tub	Air outlet
Alconox (diluted at 1%)	Hot water (approx 140°F or 60°C) Warm water (approx 113 to 140°F or 45 to 60°C) Room temperature water (approx 70°F or 21°C)	√	✓
Neodisher MediZym (diluted at 2.0%)	Warm water (approx 113 to 140°F or 45 to 60°C)	✓	✓

Part	Validated number of cycles
	Hot water: 194°F (90°C) for 1 minute.
Cleanable water tub	10
Air outlet	10

- 1. Soak the disassembled components in a hot water bath at 194°F (90°C) for 1 minute. Take care that no air bubbles are trapped against the components.
- 2. Air dry out of direct sunlight and/or heat.

Inspecting

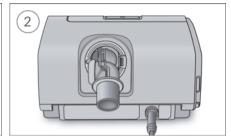
Perform a visual inspection of all components. If any visible deterioration is apparent (cracking, crazing, tears, etc), the water tub should be discarded and replaced. Slight discoloration of the silicone components may occur and is acceptable.

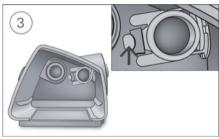
Reassembling

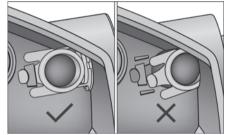
The following instructions provide guidance on how to correctly reassemble the air outlet and the water tub.

To reassemble the air outlet



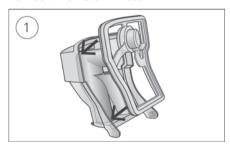


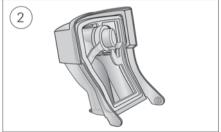




- 1. Hold the air outlet with the seal pointing to the left and the clip pointing forward.
- 2. Make sure that the air outlet is correctly aligned and insert the air outlet into the socket. It will click in place.
- 3. Check if the air outlet is inserted correctly as shown.

To insert the water tub 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 water tub 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.

Packaging and storage

Store in a dry, dust-free environment away from direct sunlight.

Storage temperature: -4°F to 140°F (-20°C to 60°C).

Data management and therapy compliance

For therapy compliance management, the AirSense 10 device stores patient data on the device and has the ability to transfer it remotely to the care provider. Data can then be accessed via ResMed's AirView™ compliance management solution.

The AirSense 10 device also stores data on the SD card. This data can be transferred via an SD Card Reader to ResMed's ResScan™ patient management system.

For more information on compliance management with AirView or ResScan, refer to the manuals supplied with the software.

Remote monitoring

The AirSense 10 device has cellular communication which has the ability to automatically transmit summary and night profile data on a regular basis. It also allows you to change settings remotely.

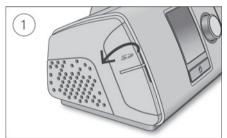
The Wireless signal strength icon ill displayed at the top right of the screen indicates the signal strength. Advise the patient to check the signal strength on their device.

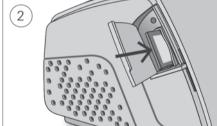
Notes:

- Therapy data might not be transmitted if used outside of the country or region of purchase.
- Devices with cellular communication might not be available in all regions.

SD card

Every AirSense 10 device comes with an SD card already inserted and ready to be used. Once the data is loaded into ResScan or AirView via the SD Card Reader, you can review and analyze data, as well as update therapy settings and transfer them to the patient's device via 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.

Do not remove the SD card from the device when the SD light is flashing.

To insert the SD card:

- 1. Open the SD card cover.
- Push the SD card into the device until it clicks.
 The following message is briefly displayed: Preparing SD card, do not remove power or your card.

Data storage

The AirSense 10 device stores patient compliance data such as AHI, Total Hours Used and Leak. Detailed Data such as snore and pulse rate, as well as high resolution flow and pressure data, are stored on the SD card.

Data can be transmitted to therapy management software either remotely via cellular communication, or via SD card. The different ways of transmitting data are detailed in the table below.

For more information on compliance management with AirView or ResScan, refer to the manuals supplied with the software.

Type of data	Trar	Sessions stored		
	Cellular communication to AirView	SD card to ResScan	SD Card to AirView (card-to- cloud)	
Summary data (compliance data)	✓	✓	✓	365
Detailed data		✓		Limited by usage and
High resolution flow and pressure data (25 Hz)		✓		SD card storage capacity

Detailed data are stored on the SD card and can be viewed on ResScan. Examples of detailed data available are shown below.

Detailed Data

Parameter	Sampling rate
Apnea or hypopnea events	Aperiodic
CSR	Aperiodic
RERA (AirSense 10 AutoSet for Her only)	Aperiodic
Flow limitation (flat to round)	1/2 Hz
Leak (L/sec)	1/2 Hz
Minute ventilation (L/min)	1/2 Hz
Pressure (cm H ₂ O / hPa)	1/2 Hz
Snore (quiet to loud)	1/2 Hz
Pulse rate (beats/min)—if an oximeter adapter is attached	1 Hz
Oxygen saturation (SpO ₂)—if an oximeter adapter is attached 1 Hz	

Software upgrade

The device has a software upgrade feature. When a software upgrade is in progress, the screen will flash for approximately 10 minutes.

Managing patient care

The following section has been provided to assist you with managing your patients' care.

Patient menu

In the patient menu there are two types of access levels, Essentials and Essentials Plus.

Essentials is designed to make the device interaction and menu navigation easier for patients. It is a simple choice for patients who do not want to worry about settings or menu navigation. It provides access to the most important comfort features such as Ramp Time, Humidity Level (if water tub available) and Run Mask Fit.

However, by enabling Essentials Plus you can allow highly engaged patients to access additional features for control over more of their therapy settings, including changing their mask type, EPR (if available), SmartStart and Run Warmup (if water tub available).

Essentials Plus can be enabled via the Settings menu. For more information on the patient menu, see the User Guide.

Therapy data

The device has the ability to transmit a patient's compliance data remotely via cellular communication.

If you wish to use cellular communication, advise patients to check the Wireless signal strength icon **...ll** once they have the device set up at home. The icon will indicate the strength of coverage by the number of bars displayed—the higher the number of bars, the stronger the signal.

Traveling

Patients can take their AirSense 10 device wherever they go. Advise patients of the following:

- Use the travel bag provided to prevent damage to the device.
- Empty the water tub and pack it separately in the travel bag.
- Make sure the patient has the appropriate power cord for the region of travel. For information on purchasing, contact your ResMed representative.
- When using an external battery, turn off the humidifier in order to maximize battery life. Do this by turning the **Humidity Level** to Off.

Traveling by plane

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

The AirSense 10 device can be used 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 water tub is completely empty and inserted into the device. The device will not
 work without the water tub inserted.
- Turn on Airplane Mode (for instructions see the User Guide).

⚠ CAUTION

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

Troubleshooting

If there is a problem, try the following suggestions. If you are not able to fix the problem, contact your local ResMed dealer or ResMed office. Do not open the device.

General troubleshooting

Problem/possible cause	Solution
Air is leaking from around the mask	
Mask may be fitted incorrectly.	Make sure the mask is fitted correctly. See mask user guide for fitting instructions or use the Mask Fit function to check mask fit and seal.
The patient is 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.
There are droplets of water in the mask 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.
The patient is getting a very dry mouth	
Air may be escaping through the patient's mouth.	Increase the Humidity Level.
	The patient may need a chin strap to keep the mouth closed or a full face mask.
The patient feels that too much air is being delivered fo	rom the device
Ramp may be turned off.	Use the Ramp Time option.
The patient feels that not enough air is being delivered	I from the device
Ramp may be in progress. Wait for air pressure to build up or turn Ramp Tir	
Ramp start pressure may be too low.	Increase Ramp start pressure.
No display	
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.
Therapy has stopped, 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 aft 20 minutes.
	ZU minutes.

Problem/possible cause	Solution
Water tub is leaking	
Water tub may not be assembled correctly.	Check for damage and reassemble the water tub correctly.
Water tub may be damaged or cracked.	Replace the water tub.
The patient's therapy data has not been transmitted	
Wireless coverage may be poor.	Advise the patient to place the device where there is coverage (ie, on their bedside table, not in a drawer or on the floor). The Wireless signal strength icon [IIII] 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.	Advise the patient that therapy data can be sent using the SD Card.
Device may be in Airplane Mode.	Turn off Airplane Mode, for instructions see the User Guide.
SmartStart is enabled, but the device does not automa	tically start when the patient breathes into their mask
Breath is not deep enough to trigger SmartStart.	To start therapy, take a deep breath in and out through the mask, before breathing normally.
	Press Start.
There is excessive leak.	Adjust the mask and headgear.
	Air tubing may not be connected properly. Connect firmly at both ends.
SmartStart is enabled, but the device does not automa	tically stop when the patient removes their mask
Incompatible mask being used.	Only use equipment recommended by ResMed.
	Contact ResMed or see www.resmed.com for more information.
	If the patient is using a nasal pillows mask with set pressure less than 7 cm H_2O , SmartStart will not work and should be disabled.

Device messages

Device message/possible cause	Solution
High leak detected, check your water tub, tub seal o	r side cover
Water tub may not be inserted properly.	Make sure the water tub is correctly inserted.
Water tub seal may not be inserted properly.	Open the water tub 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.
Mask may be fitted incorrectly.	Make sure the mask is fitted correctly. See mask user guide for fitting instructions or use the Mask Fit function to check 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.
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 $lacktriangle$ to the unlock position $lacktriangle$ and then re-insert it.
Date and time can not be set in the past	
Date and time were not set before data was recorded.	Select Erase Data in Settings . Once the data is erased, set the correct local date and time.
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 local ResMed dealer or ResMed office. Do not open the device.

⚠ WARNING

- Make sure that you arrange the air tubing so that it will not twist around the head or neck.
- Make sure the power cord and plug are in good condition and the equipment is not 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 Center.
- Do not open or modify the device. There are no user serviceable parts inside. Repairs and servicing should only be performed by an authorized 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.

$oldsymbol{\Delta}$ 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, moisturizing or antibacterial soaps or scented oils to clean the device, the water tub or air tubing. These solutions may cause damage or affect the humidifier performance and reduce the life of the products.
- If you use the humidifier, always place the device on a level surface lower than the
 patient's head to prevent the mask and air tubing from filling with water.
- Do not overfill the water tub as water may enter the device and air tubing.

- Leave the water tub to cool for ten minutes before handling to allow the water to cool and to make sure that the water tub is not too hot to touch.
- Make sure that the water tub is empty before transporting the device.

Technical specifications

·	
90W power supply 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 temperature:	+41°F to +95°F (+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 (104°F/40°C) the device remains safe.
Operating humidity:	10 to 95% relative humidity, non-condensing
Operating altitude:	Sea level to 8,500' (2,591 m); air pressure range 1013 hPa to 738 hPa
Storage and transport temperature:	-4°F to +140°F (-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 IEC60601-1-2:2007, 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, on the Products page under Service and Support.

IEC 60601-1:2005 classification

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

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

type, -5 to +45 cm H_2O

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 for more than 6 sec or 40 cm H₂O for more than 1 sec.

Sound

Pressure level measured according to ISO 17510-1:2007 (CPAP mode):

SlimLine: 26.6 dBA with uncertainty of 2 dBA Standard: 26.6 dBA with uncertainty of 2 dBA

Power level measured according to ISO 17510-1:2007 (CPAP mode):

SlimLine: 34.6 dBA with uncertainty of 2 dBA Standard: 34.6 dBA with uncertainty of 2 dBA

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

Physical - device and water tub

Dimensions (H x W x D): 4.57" x 10.04" x 5.91"

(116 mm x 255 mm x 150 mm) Air outlet (complies with ISO 5356-1:2004): 22 mm

Weight (device and standard water tub): 44 oz (1248 g)
Weight (device and cleanable water tub): 44 oz (1248 g)

Housing construction: Flame retardant engineering thermoplastic

Water capacity: To maximum fill line 380 mL

Standard water tub - material: Injection molded plastic, stainless steel and silicone seal
Cleanable water tub - material: Injection molded plastic, stainless steel and silicone seal

Temperature

Maximum heater plate: $154^{\circ}F$ (68°C) Cut-out: $165^{\circ}F$ (74°C) Maximum gas temperature: $\leq 106^{\circ}F$ ($\leq 41^{\circ}C$)

Air filter

Standard: Material: Polyester non woven fiber

Average arrestance: >75% for ~7 micron dust

Hypoallergenic: Material: Acrylic and polypropylene fibers in a polypropylene

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:

CDMA (USA and Canada only)
2G GSM (all regions except USA and Canada)

FCC ID: 2ACHL-AIR10CD

The AirSense 10 device complies with FCC Rules.

The AirSense 10 device should be used at a minimum distance of 0.8" (2 cm) from the body during operation. Additional information regarding the FCC Rules for this device can be found on www.resmed.com.

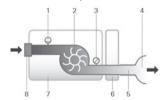
Operating pressure range

AutoSet, AutoSet For Her, CPAP: 4 to 20 cm H₂O

Supplemental oxygen

Maximum flow: 4 L/min

Pneumatic flow path



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

Design life

Device, power supply unit: 5 years
Cleanable water tub: 2.5 years
Standard water tub, air tubing: 6 months

Humidifier performance

The following settings have been tested at 71.6°F (22°C) ambient temperature:

Mask Pressure	RH output %		Nominal system output AH ¹ , BTPS ²	
cm H ₂ O	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	6'6" (2 m)	0.6" (15 mm)
SlimLine	Flexible plastic	6' (1.8 m)	0.6" (15 mm)
Standard	Flexible plastic	6'6" (2 m)	0.75" (19 mm)
Heated air tubing to	emperature cut-out: ≤ 106°F (≤ 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	$4-20 \text{ cm H}_20$	0.1 cm H ₂ O	
Flow derived values:			
Leak	0-120 L/min	1 L/min	
Value	Accuracy		
Pressure measurement ¹ :			
Mask pressure ²	$\pm [0.5 \text{ cm H}_2\text{O} + 4\% \text{ of measured value}]$		
Flow and flow derived values ¹ :			
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		

Results are expressed at ATPD (Ambient Temperature and Pressure, Dry).

Pressure accuracy

Maximum static pressure variation at 10 cm H₂O according to ISO 17510-1:2007

	,			
	Standard air tubing	SlimLine air tubing		
Without humidification	$\pm 0.5 \text{ cm H}_2\text{O}$	\pm 0.5 cm H ₂ O		
With humidification	\pm 0.5 cm H ₂ O	\pm 0.5 cm H ₂ O		

² BTPS - Body Temperature Pressure Saturated

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

Maximum dynamic pressure variation according to ISO 17510-1:2007 Device without humidification and Standard air tubing / Device with humidification and Standard air tubing Pressure (cm H₂O) **15 BPM 10 BPM 20 BPM** 0.5 / 0.5 0.5 / 0.5 0.8 / 0.8 8 0.5 / 0.50.5 / 0.5 0.8 / 0.8 12 0.5 / 0.5 0.5 / 0.50.8 / 0.8

0.5 / 0.5

0.5 / 0.5

0.8 / 0.8

0.8 / 0.8

 $\label{lem:line} \mbox{Device with humidification and SlimLine air tubing / Device with humidification and SlimLine air tubing} \mbox{ } \mbox{I} \mbo$

0.5 / 0.5

0.5 / 0.5

evice without numbration and similine all tubing / Device with numbration and similine all tub			Line an tubing
Pressure (cm H ₂ O)	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

Flow (maximum) at set pressures

The following are measured accordingly to ISO 17510-1:2007 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 H ₂ O	L/min	L/min	L/min	L/min
4	180	143	162	149
8	168	135	151	129
12	157	136	140	137
16	144	134	128	125
20	131	123	117	115

Symbols

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The following symbols may appear on the product or packaging.

Parad instructions before use. A Indicates a warning or caution. Follow instructions before
use. Manufacturer. EC REP European Authorized Representative. LOT Batch code.
REF Catalog number. SN Serial number. DN Device number. On / Off. Device weight.
IP22 Protected against finger sized objects and against dripping water when tilted up to 15 degrees
from specified orientation. — Direct current. Type BF applied part. Class II equipment.
Humidity limitation. Temperature limitation. Non-ionising radiation. China pollution
control logo 1.
law restricts these devices to sale by or on the order of a physician) MAX Maximum
water level. Use distilled water only. Operating altitude. Atmospheric pressure
limitation. Complies with RTCA DO-160 section 21, category M.



Environmental information

This device should be disposed of separately, not as unsorted municipal waste. To dispose of your device, you should use appropriate collection, reuse and recycling systems available in your region. The use of these collection, reuse and recycling systems is designed to reduce pressure on natural resources and prevent hazardous substances from damaging the environment.

If you need information on these disposal systems, please contact your local waste administration. The crossed-bin symbol invites you to use these disposal systems. If you require information on collection and disposal of your ResMed device please contact your ResMed office, local distributor or go to www.resmed.com/environment.

Servicing

The AirSense 10 device is intended to provide safe and reliable operation when operated in accordance with the instructions provided by ResMed. ResMed recommends that the AirSense 10 device be inspected and serviced by an authorized ResMed Service Centre if there is any sign of wear or concern with device function. Otherwise, service and inspection of the products generally should not be required during their design life.

Limited warranty

Portable diagnostic/screening devices

ResMed Ltd (hereafter 'ResMed') warrants that your ResMed product shall be free from defects in material and workmanship from the date of purchase for the period specified below.

Product	Warranty period	
Mask systems (including mask frame, cushion, headgear and tubing)—excluding single-use devices	90 days	
Accessories—excluding single-use devices		
Flex-type finger pulse sensors		
Humidifier water tubs		
Batteries for use in ResMed internal and external battery systems	6 months	
Clip-type finger pulse sensors	1 year	
CPAP and bilevel device data modules		
Oximeters and CPAP and bilevel device oximeter adapters		
Humidifier cleanable water tubs		
Titration control devices		
CPAP, bilevel and ventilation devices (including external power supply units)	2 years	
Humidifiers		
Battery accessories		

This warranty is only available to the initial consumer. It is not transferable.

If the product fails under conditions of normal use, ResMed will repair or replace, at its option, the defective product or any of its components.

This Limited Warranty does not cover: a) any damage caused as a result of improper use, abuse, modification or alteration of the product; b) repairs carried out by any service organization that has not been expressly authorized by ResMed to perform such repairs; and c) any damage or contamination due to cigarette, pipe, cigar or other smoke.

Warranty is void on product sold, or resold, outside the region of original purchase.

Warranty claims on defective product must be made by the initial consumer at the point of purchase.

This warranty replaces all other expressed or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose. Some regions or states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

ResMed shall not be responsible for any incidental or consequential damages claimed to have resulted from the sale, installation or use of any ResMed product. Some regions or states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from region to region. For further information on your warranty rights, contact your local ResMed dealer or ResMed office.





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