







Clinical guide English

## Contents

Welcome	
Indications for use	1
AirCurve 10 VAuto	1
AirCurve 10 S	1
AirCurve 10 ST	1
Contraindications	1
Adverse effects	1
At a glance	
About the control panel	
Therapy information	
Bilevel pressures	
VAuto mode	
Min EPAP, Max IPAP and pressure support in VAuto mode	
S mode	5
ST mode	
T mode	
CPAP mode	
Triggering and cycling	
Rise time adjustment	
TiControl - Inspiratory time control	
Central sleep apnea detection	
Leak management with VSync	7
Comfort features	
Ramp	
Expiratory Pressure Relief	
Easy-Breathe	
Climate Control	
Climate Control Auto	
Tube Temperature	
Climate Control Manual	٥٥ ە
Setup	
Supplemental oxygen Antibacterial filters	
Accessing and exiting the Clinical Menu	
Adjusting the clinical settings	
Setting the date and time	
Settings menu	
Therapy	
Comfort	
Accessories	
Options	
Configuration	
Starting therapy	
Stopping therapy	
Viewing the Sleep Report	
Sleep Report screen parameters	
Cleaning and Maintenance	
Disassembling	
Cleaning	20

Checking	. 20
Reassembling	. 21
Reprocessing	
Surface disinfection	. 22
Reprocessing the air tubing and Air10 tubing elbow	. 22
Disconnecting	. 22
Decontaminating	
Disinfecting	
High level chemical disinfection	. 23
Sterilization	. 24
Inspecting	. 24
Reconnecting the air tubing	. 24
Packaging and storage	. 24
Reprocessing the water tub and air outlet	. 25
Disassembling	
Decontaminating	
Disinfecting	. 26
High level thermal disinfection	. 26
High level chemical disinfection	
Sterilization	. 27
Inspecting	. 27
Reassembling	. 27
Packaging and storage	
Data management and therapy compliance	. 28
Remote monitoring	. 29
SD card	. 29
Data storage	. 29
Software upgrade	. 30
Managing patient care	. 31
Patient menu	. 31
Therapy data	. 31
Traveling	. 31
Traveling by plane	. 31
Troubleshooting	. 32
General troubleshooting	. 32
Device messages	. 33
General warnings and cautions	. 35
Technical specifications	. 36
Symbols	. 41
Servicing	. 42
Limited warranty	. 42

## Welcome

The AirCurve™ 10 VAuto, AirCurve 10 S and AirCurve 10 ST are bilevel positive airway pressure devices.

## 

Read this entire guide before using the device.

## $\Delta$ caution

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

## Indications for use

#### AirCurve 10 VAuto

The AirCurve 10 VAuto 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.

#### AirCurve 10 S

The AirCurve 10 S 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.

#### AirCurve 10 ST

The AirCurve 10 ST 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 pre-existing conditions:

- severe bullous lung disease
- pneumothorax or pneumomediastinum
- pathologically low blood pressure, particularly if associated with intravascular volume depletion
- 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
- eye irritation
- skin rashes.

## At a glance

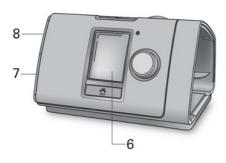
The AirCurve 10 includes the following:

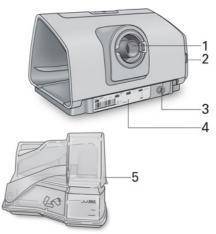
- Device with HumidAir<sup>™</sup> integrated humidifier
- Water tub
- Air tubing
- Power supply unit
- Travel bag
- SD card (not available in all devices).

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

- Air tubing (heated and non-heated): ClimateLineAir<sup>™</sup>, SlimLine<sup>™</sup>, ClimateLineAir Oxy, Standard, 3 m air tubing
- Water tub: Standard water tub (for single patient use only, cannot be disinfected), cleanable water tub (for multi-patient use, can be disinfected)
- Side cover for use without the humidifier
- Filter: Hypoallergenic filter, standard filter
- Air10<sup>™</sup> DC/DC converter
- SD card reader
- Air10 oximeter adapter
- Air10 USB adapter
- Power Station II
- Air10 tubing elbow.

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





- 1 Air outlet
- 2 Air filter cover
- 3 Power inlet
- 4 Serial number and device number

## About the control panel

Screen Adapter cover 7

5

6

8 SD card cover

Water tub

<b>O</b>	Start/Stop button	Press to start/stop therapy. Press and hold for three seconds to enter power save mode.
$\bigcirc$	Dial	Turn to navigate the menu and press to select an option. Turn to adjust a selected option and press to save your change.



Home button

Press to return to the Home screen.

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



Ramp Time



Humidity



Humidifier warming

\* Humidifier cooling

Wireless signal strength (green) .ull







Airplane Mode

## Therapy information

The following modes are available on the AirCurve 10 device:

Device	Mode						
	VAuto	S	ST	Т	CPAP		
AirCurve 10 VAuto	$\checkmark$	$\checkmark$			$\checkmark$		
AirCurve 10 S		✓			✓		
AirCurve 10 ST		$\checkmark$	✓	✓	$\checkmark$		

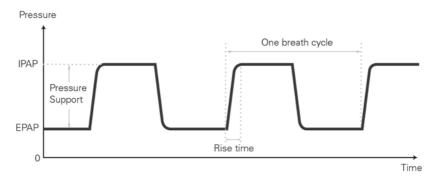
#### **Bilevel pressures**

The AirCurve 10 device assists spontaneous breathing by cycling between two pressures in response to the patient flow or a preset fixed time.

The inspiratory positive airway pressure (IPAP, or the sum of EPAP and the pressure support level) assists inspiration.

The lower expiratory positive airway pressure (EPAP) facilitates exhalation comfort while providing a splint to maintain an open upper airway.

The difference of the two pressures—pressure support (PS) level—contributes to patient comfort.



## VAuto mode

In VAuto mode, the AutoSet algorithm automatically adjusts pressure in response to flow limitation, snore and obstructive apneas.

#### Min EPAP, Max IPAP and pressure support in VAuto mode

Pressure support allows you to set the difference between inspiratory and expiratory pressure and is fixed throughout the night. Min EPAP and Max IPAP settings allow you to restrict the delivered pressure ranges in which the AutoSet algorithm can operate.

The EPAP and IPAP will vary across the session according to the patient's needs. It responds to snoring, apneas and flow limitation of the patient's flow curve.

Min EPAP and Max IPAP can be adjusted to limit the upper and lower delivered pressure limits.

## S mode

In S mode, you may set two treatment pressures—one for inspiration (IPAP) and one for expiration (EPAP). The device senses when the patient is inhaling and exhaling and supplies the pressures accordingly. The difference between IPAP and EPAP levels helps determine the tidal volume.

## ST mode

In ST mode, the device augments any breath initiated by the patient, but will also supply additional breaths should the patient breath rate fall below the set "backup" breath rate.

## T mode

In T mode, a fixed breath rate and a fixed inspiration/expiration time are supplied regardless of patient effort.

## CPAP mode

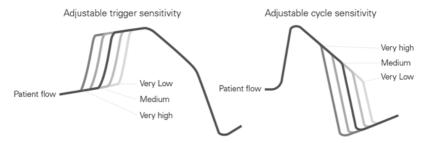
In CPAP mode, a fixed pressure is delivered.

## Triggering and cycling

VAuto, S and ST modes only

The device has adjustable trigger/cycle sensitivity to optimize the sensing level according to patient conditions.

Under normal conditions, the device triggers (initiates IPAP) and cycles (terminates IPAP and changes to EPAP) as it senses the change in patient flow. Patient breath detection is enhanced by ResMed's VSync automatic leak management.



## Rise time adjustment

S, ST and T modes only

Rise Time sets the time taken for the device to reach IPAP. The greater the rise time value, the longer it takes for pressure to increase from EPAP to IPAP.

Patients with a high ventilatory demand may prefer a shorter rise time, while patients who are slow breathers may prefer a longer rise time.

**Note:** A prolonged rise time inhibits fast pressurization, therefore, rise time should not be set longer than Ti Min or the patient's normal inspiratory time.

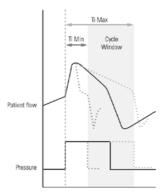
## TiControl - Inspiratory time control

#### VAuto, S and ST modes only

Unique to ResMed bilevel devices, TiControl<sup>™</sup> allows the clinician to set minimum and maximum limits on the time the device spends in IPAP. The minimum and maximum time limits are set at either side of the patient's ideal spontaneous inspiratory time, providing a 'window of opportunity' for the patient to spontaneously cycle to EPAP.

The minimum time limit is set via the Ti Min parameter and the maximum time limit is set via the Ti Max parameter.

TiControl's Ti Max and Ti Min parameters play a significant role in maximizing synchronization by effectively intervening to limit or prolong the inspiratory time when required. This ensures synchronization, even in the presence of significant mouth and/or mask leak.



The following table is a guide to selecting the Ti Max and Ti Min values that best correspond to the patient's respiratory rate and inspiration and expiration ratio, depending on the respiratory conditions.

#### Examples:

- I:E = 1:1 Ti Min prevents the premature cycling to EPAP for patients whose inspiratory effort is extremely weak.
- I:E = 1:3 Ti Max limits the inspiration time for patients who require a longer expiration time.

Patient breath (BPM)	Ttot = 60/BPM (sec)	l:E = 1:2 (Reference)	Sufficient inhalation time I:E = 1:1		Secure exhalation time I:E = 1:3
			Ti Min	Ti Max	Ti Max
10	6	2	1.0	2.0	1.5
15	4	1.3	1.0	2.0	1.3
20	3	1.0	0.8	1.5	1.0
25	2.4	0.8	0.7	1.2	0.8
30	2	0.7	0.6	1.0	0.7
35	1.7	0.6	0.5	0.8	0.7
40	1.5	0.5	0.5	0.7	0.7

## Central sleep apnea detection

Central sleep apnea detection is available in VAuto, CPAP and S modes (when Easy-Breathe is enabled) on AirCurve 10 VAuto and AirCurve 10 S devices.

The AirCurve 10 has central sleep apnea (CSA) detection. 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).

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  $H_2O$  (1 hPa) 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.

### Leak management with VSync

Using ResMed's VSync algorithm, the AirCurve 10 device monitors and compensates for leak by continuously and automatically adjusting the baseline flow. This enables reliable delivery of therapy pressure while maintaining patient-device synchrony.

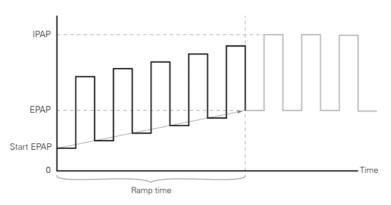
## **Comfort features**

## Ramp

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

In VAuto, S, ST and T modes the ramp functions as follows:

In VAuto, S, T and ST modes, the EPAP gradually increases from the Start EPAP to the prescribed treatment pressure. Throughout Ramp, Pressure Support is maintained at the same level as that set for treatment.



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

## **Expiratory Pressure Relief**

The comfort feature Expiratory Pressure Relief is available in CPAP mode on the AirCurve 10 VAuto device.

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 H<sub>2</sub>O (1, 2, 3 hPa)

When EPR is enabled, the delivered pressure will not drop below a minimum pressure of 4 cm  $\rm H_2O$  (4 hPa), regardless of the settings.

### Easy-Breathe

The comfort feature Easy-Breathe is available in S mode on the AirCurve 10 VAuto and AirCurve 10 S device.

The Easy-Breathe waveform intelligently recreates a patient's individual breathing pattern, so breathing feels more natural and therapy is more comfortable.

## **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 during sleep. Climate Control can be set to either Auto or Manual and is only available when the ClimateLineAir and the water tub 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.

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).

#### **Tube Temperature**

In Climate Control Auto there is no need to change any settings, but if the air in the mask is too warm or cold for the patient, the tube temperature can be adjusted. The Tube Temperature can be set to anywhere between  $60-86^{\circ}F$  ( $16-30^{\circ}C$ ), or turned off completely.

#### **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  $60-86^{\circ}F$  ( $16-30^{\circ}C$ ).

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.

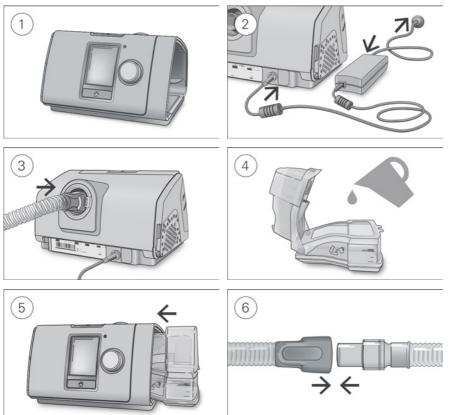
For each humidifier setting, the Climate Control system delivers a constant amount of water vapor, or absolute humidity (AH), to the patient's upper airway.

#### 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



## $\triangle$ 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 AirCurve 10 VAuto and AirCurve 10 S devices are designed to be compatible with up to 4 L/min of supplemental oxygen in all modes.

The AirCurve 10 ST device is designed to be compatible with up to 15 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.

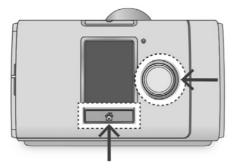
ResMed recommends using an antibacterial filter with a low impedance [eg, 2 cm  $H_2O$  (2 hPa) at 60 L/min], such as PALL (BB50T), Filter without Luer Port (4222/702) or the Filter with Side Port 24966 (4222/701). If using the Filter with Side Port, an Oxygen Connector Port is required.

**Note:** When using the SlimLine air tubing above 20 cm  $H_2O$  (20 hPa), the device optimum performance may not be reached if used with an antibacterial filter. The device performance must be checked prior to prescribing the SlimLine air tubing for use with an antibacterial filter.

## 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:



Press and hold the dial and the Home button for three seconds.
 The Home screen is displayed with an unlock icon 
in the top right corner of the screen.

#### 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

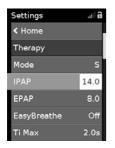


Settings	.nii 🔒
< Home	
Therapy	
Mode	s
IPAP	14.0
EPAP	8.0
EasyBreathe	Off
Ті Мах	2.0s



- 1. 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.

Settings	<b>6</b> III.	Settings all <b>a</b>	Settings
Date 19	Mar 2014	Date 19 Mar 2014	Date 19 Mar 20
Time	07:30	Time 07:30	Time 07
Press. Units	cmH2O	Press. Units cmH2O	Press. Units cmH
Temp. Units	°C	Temp. Units °C	Temp. Units
Restore Defa	ults >	Restore Defaults >	Restore Defaults
Erase Data	>	Erase Data >	Erase Data
About	>	About >	About

- 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 AirCurve 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. **Note:** Some parameters might not be available on all devices in certain modes.

Therapy

Parameter	Description	VAuto	S	Mode ST	Т	CPAP	Range
Mode	Sets the therapy mode available on the device.	✓	✓	~	√	~	
Set Pressure	Sets the fixed treatment pressure.					~	4–20 cm H <sub>2</sub> O (4–20 hPa), 0.2 cm H <sub>2</sub> O (0.2 hPa) increments
IPAP	Sets the pressure to be delivered to the patient when the device is triggered into inspiration.		✓	~	✓		4–25 cm H <sub>2</sub> O (4–25 hPa), 0.2 cm H <sub>2</sub> O (0.2 hPa) increments
EPAP	Sets the pressure to be delivered to the patient when the device is cycled into expiration.		✓	~	✓		2–[IPAP] cm H₂O (2–[IPAP] hPa), 0.2 cm H₂O (0.2 hPa) increments
Easy-Breathe	Enable / disable the Easy-Breathe feature.		✓				On / Off
Resp. Rate	Set the breaths per minute (BPM) or 'backup' rate.			✓	✓		5-50 BPM
Ti Max	Set the maximum limit on the time the device spends in IPAP.	✓	✓	✓			0.3–4.0 sec, 0.1 sec increments
Ti Min	Set the minimum limit on the time the device spends in IPAP.	✓	✓	✓			0.1–[Ti Max] sec, 0.1 sec increments
Ti	Sets the duration of inspiration in timed breath. Dependent on Respiratory Rate.				✓		0.3–4.0 sec, 0.1 sec increments
Max IPAP	Sets the maximum inspiratory pressure delivered by the device.	✓					$\begin{array}{l} 4-25 \text{ cm } H_2 0 \ (4-25 \text{ hPa}), \ 0.2 \\ \text{cm } H_2 0 \ (0.2 \text{ hPa}) \ \text{increments} \end{array}$
Min EPAP	Sets the minimum EPAP (minimum expiratory pressure) delivered by the device.	✓					4–25 cm H <sub>2</sub> O (4–25 hPa), 0.2 cm H <sub>2</sub> O (0.2 hPa) increments
Pressure Support (PS)	Difference between IPAP and EPAP. Adjust for patient comfort.	✓					0–10 cm H <sub>2</sub> O (0–10 hPa), 0.2 cm H <sub>2</sub> O (0.2 hPa) increments

Parameter	Description	VAuto	S	Mode ST	Т	CPAP	Range
Rise Time	Set the time taken for pressure to increase from EPAP to IPAP.		✓	✓	✓		Min / 150–900 ms, 50 ms increments
	The Rise Time scale can be approximately read as 'milliseconds' (eg, 200 is approximately 200 ms).						
Trigger	Set the level of inspiratory flow above which the device changes from EPAP to IPAP.	✓	✓	~			Very Low / Low / Med / High / Very High
Cycle	Set the level of inspiratory flow below which the device changes from IPAP to EPAP.	✓	✓	✓			Very Low / Low / Med / High / Very High
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	VAuto	S	Mode ST	Т	CPAP	Range
Ramp Time	Set the ramp time.	$\checkmark$	✓	$\checkmark$	$\checkmark$	$\checkmark$	Off / 5–45 mins
Start Pressure	Set the pressure at the start of ramp, up to treatment pressure.					✓	4–Set pressure, 0.2 cm H <sub>2</sub> 0 (0.2 hPa) increments
Start EPAP	Set the pressure at the start of ramp, up to minimum treatment pressure.	✓	✓	✓	✓		3–EPAP, 0.2 cm H <sub>2</sub> O (0.2 hPa) increments
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
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 <sub>2</sub> O (1 / 2 / 3 hPa)

#### 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 / 3m
AB filter	Select Yes if you attach an antibacterial filter.	No / Yes
View oximeter	Displayed at all times when an oximeter is connected.	18-300 BPM 0-100% SpO <sub>2</sub>

### Options

Parameter	Description	Range On / Plus	
Essentials	Set the level of access available to the patient.		
Leak Alert	Enable / disable the Leak Alert feature. When enabled, leaks >40 L/min (0.7 L/s) for >20 sec result in an audible alert and a high leak message is displayed.	Off / On	
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 / Deutsch / Italiano / Nederlands / Svenska / Norsk / Dansk / Suomi / Polski / Türkçe / Русский / •体中文/ 繁 體中文/ 日本語
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.	

Parameter	Description	Selection
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 H <sub>2</sub> O / hPa
Temp. Units	Set the temperature units.	°F / °C
Restore Defaults	Reset to default settings (except for language, date and time).	Yes / No
Erase Data	Erase all data stored on the device and the SD card. Settings, date, time and device run hours are not affected.	Yes / No
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.

Sleep Report	))),
< Home	
s	PS 6.0
4.0	10.0
⊿20	

The pressure bar shows the inspiratory and expiratory pressures in green. The green bar will expand and contract as the patient breathes in and out.

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 AirCurve 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	.ıll <b>Ə</b>	Sleep Report		Sleep	Report a
< Home		Humidifier	Œ	Exp.	Pressure 4.0
Usage	7:15	Period	1 Month	Leak	5L/min
hours	/115	Days Used	22/30	Vt	600
Events (AHI) per hour	10	Days 4hrs+	18/30	RR	10 bpm
Mask		Avg. Usage	6.0hrs	MV	7.2L/min
Seal	$\mathbf{e}$	Used Hrs	132.0hrs	Ті	2.0s
Humidifier	•	Pressure	14.0	I:E	1:2.0

#### 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.	
Mask Seal	Good—if the 70 <sup>th</sup> 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.	

Parameter	Description
Pressure	Average inspiratory pressure during the selected period ( $95^{th}$ percentile for each day; average of $95^{th}$ percentile values for periods >1 day).
Exp. Pressure	Average expiratory pressure during the selected period ( $95^{th}$ percentile for each day; average of $95^{th}$ percentile values for periods >1 day).
Leak	Average of the 95 <sup>th</sup> percentile values of leak during the selected period for days with usage only.
Vt	Average of the 50th percentile values of tidal volume during the selected period for days with usage only.
RR	Frequency of breathing, expressed as the number of breaths per minute (5-breath moving average).
MV	Average of the 50th percentile values of minute ventilation during the selected period for days with usage only.
Ti	Duration of inspiration (ie, the respiratory flow into the lungs), expressed in seconds (5-breath moving average).
I:E	I:E is the ratio of the inspiratory period to the expiratory period.
Spont Trig	Percentage of breaths that are spontaneously triggered, measured from the last 20 breaths.
Spont Cyc	Percentage of breaths that are spontaneously cycled, measured from the last 20 breaths.
AHI	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 AI during the selected period.
Central Al	Central Apnea Index—average CAI of the Days Used in the selected period.

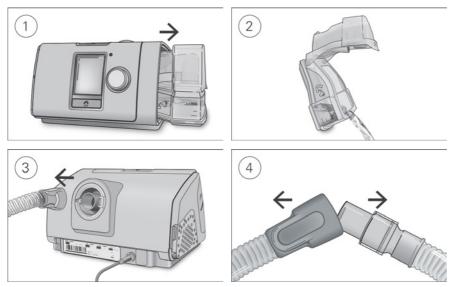
## **Cleaning and Maintenance**

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

## ▲ WARNING

Regularly clean the tubing assembly, water tub and mask for optimal therapy and to prevent the growth of germs that can adversely affect the patient's health.

## 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.

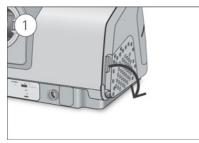
- 1. Wash the water tub and air tubing in warm water using mild detergent. Do not wash in a dishwasher or washing machine.
- 2. Rinse the water tub and air tubing thoroughly and allow to dry out of direct sunlight and/or heat.
- 3. Wipe the exterior of the device with a dry cloth.

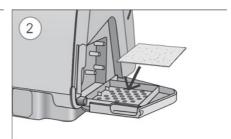
## Checking

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.
- 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 guide.

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

- 1. Wipe the exterior of the device including display, externally accessible ports, side cover, 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.

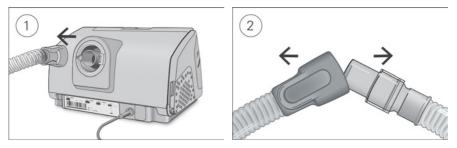
Agents recommended for surface disinfection and cleaning:

- Warm water and mild detergent eg, Teepol<sup>™</sup> 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<sup>™</sup>
- Mikrozid<sup>®</sup>
- Actichlor<sup>™</sup> Plus
- Terralin<sup>®</sup>.

Note: Agents may not be available in all regions.

## Reprocessing the air tubing and Air10 tubing elbow

#### 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 / Standard	ClimateLineAir	ClimateLineAir Oxy	Air10 tubing elbow
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)	~	~	✓	~

#### Disinfecting

In the procedures below, only one disinfection process needs to be performed.

#### High level thermal disinfection

Part	Validated number of cycles Hot water: 167°F (75°C) for 30 minutes.
SlimLine	100
ClimateLineAir	26
ClimateLineAir Oxy	20
Standard	20
Air10 tubing elbow	26

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.

#### High level chemical disinfection

Part	Validated number of cycles
	CIDEX® OPA Ortho-phthalaldehyde 0.55% at room temperature (approx. 69.8°F or 21°C) for 12 minutes
SlimLine	100
ClimateLineAir	26
ClimateLineAir Oxy	20
Standard	100
Air10 tubing elbow	26

1. Soak the air tubing/Air10 tubing elbow in a commercially available solution of a chemical sterilant. Take care that no air bubbles are trapped inside the air tubing.

- 2. Thoroughly rinse the air tubing/Air10 tubing elbow in drinking quality water (five liters per assembly) by immersing it completely for a minimum of one minute in duration.
- 3. Repeat the rinse procedure two additional times using fresh water for a total of three rinses.
- 4. Air dry out of direct sunlight and/or heat.

#### Sterilization

Part	Validated number of cycles Sterrad NX Standard and Advanced cycles	Sterrad 100S Short cycle
ClimateLineAir	26	26
ClimateLineAir Oxy	20	20

1. Sterilize the air tubing using Sterrad by following the manufacturer's instructions.

- Rinse and agitate the air tubing in drinking quality water, 5 liters per component at 59°F-68°F (15°C-20°C) for 1 minute.
- 3. Shake the air tubing to remove excess water.
- 4. Allow the air tubing to air dry out of direct sunlight.

#### Inspecting

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

#### Reconnecting the air tubing

When the air tubing is dry, you can reconnect it to the device.

- 1. Connect the air tubing firmly to the air outlet located on the rear of the device.
- 2. Connect the free end of the air tubing firmly onto the assembled mask.

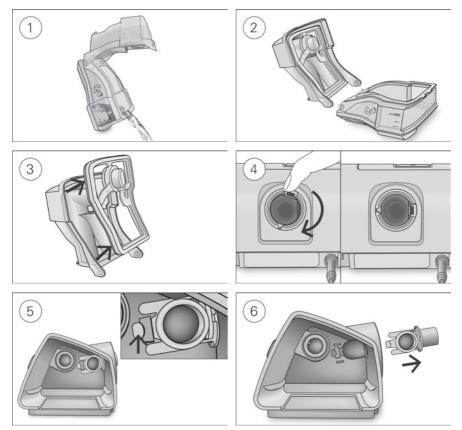
#### Packaging and storage

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. Align the swivel so that the connector port is on the right. If the swivel is not in this position you will not be able to remove the air outlet.
- 5. Locate the air outlet on the inside of the device and release it by pressing the clip firmly.
- 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)	$\checkmark$	$\checkmark$

#### Disinfecting

In the procedures below, only one disinfection process needs to be performed.

#### High level thermal disinfection

Part Validated number of cycles	
	Hot water: 194°F (90°C) for 1 minute OR 167°F (75°C) for 30 minutes.
Cleanable water tub	130
Air outlet	130

1. Soak the disassembled components in a hot water bath at pasteurizing temperature. Take care that no air bubbles are trapped against the components.

2. Air dry out of direct sunlight and/or heat.

#### High level chemical disinfection

Part Validated number of cycles	
	CIDEX OPA Ortho-phthalaldehyde 0.55% at room temperature (approx. 69.8°F or 21°C) for 12 minutes
Cleanable water tub	130
Air outlet	130

1. Soak the disassembled components in a commercially available solution of a chemical sterilant. Take care that no air bubbles are trapped against the components.

2. Thoroughly rinse the cleanable water tub in drinking quality water (five liters per assembly) by immersing it completely for a minimum of one minute in duration.

3. Repeat the rinse procedure two additional times using fresh water for a total of three rinses.

4. Air dry out of direct sunlight and/or heat.

Sterilization			
Part	Validated number of cycles		
	Sterrad NX Standard and Advanced cycles	Sterrad 100S Short cycle	
Air Outlet	130	130	

- 1. Sterilize the air outlet using Sterrad by following the manufacturers instructions.
- 2. Rinse and agitate the air outlet in drinking quality water, 5 liters per component at 59°F-68°F (15°C-20°C) for 1 minute.
- 3. Shake the air outlet to remove excess water.
- 4. Allow the air outlet to air dry out of direct sunlight.

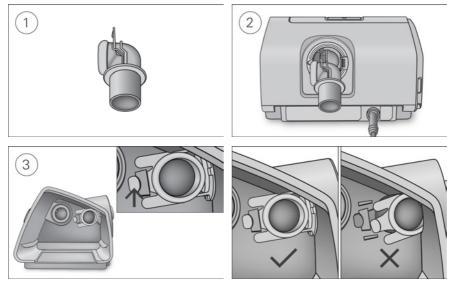
#### Inspecting

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

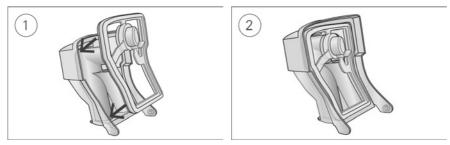
The following instructions provide guidance on how to correctly reassemble the air outlet and the water tub.

#### To reassemble the air outlet



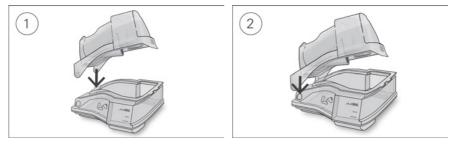
- 1. Hold the air outlet with the seal pointing to the left and the clip pointing forward.
- 2. Make sure that the air outlet is correctly aligned and insert the air outlet into the socket. It will click in place.
- 3. Check if the air outlet is inserted correctly as shown.

#### 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 management, the AirCurve 10 device stores patient therapy data on the device and may have the ability to transfer it remotely to the care provider if wireless network is available. Data can then be accessed via ResMed's AirView<sup>™</sup> therapy management solution.

The AirCurve 10 device also stores data on the SD card. This data can be transferred via an SD Card Reader to ResMed's ResScan<sup>™</sup> therapy management system.

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

## Remote monitoring

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

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

#### Notes:

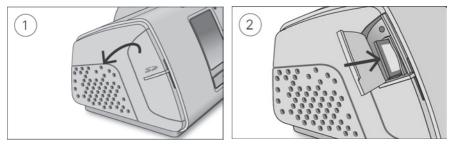
- Therapy data might not be transmitted if used outside of the country or region of purchase.
- Devices with cellular communication might not be available in all regions.

Please be aware that within the wireless network, the availability and quality of the network may be affected by terrain, buildings, and the weather. Wireless communication depends on network availability. Coverage is not available everywhere and varies by service.

## SD card

Every AirCurve 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.

#### 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.

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

#### 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 AirCurve 10 device stores summary data such as AHI, Total Hours Used and Leak. Detailed data such as snore and pulse rate are stored on the SD card and can be viewed with AirView and ResScan. 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 therapy management with AirView or ResScan, refer to the manuals supplied with the software.

Type of data	Transmission method			Sessions stored
	Cellular communication to AirView	SD card to ResScan	SD Card to AirView (card-to-cloud)	
Summary data (compliance data)	$\checkmark$	$\checkmark$	$\checkmark$	365
Detailed data	$\checkmark$	✓	✓	Limited by usage and
High resolution flow and pressure data (25 Hz - every 40 ms)		$\checkmark$		SD card storage capacity

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

#### Detailed data

Parameter	Samplir	ng rate
	ResScan	AirView
Apnea or hypopnea events	aperiodic	aperiodic
Flow limitation (flat to round)	1/2 Hz (2 sec)	1 min
Leak (L/sec)	1/2 Hz (2 sec)	1 min
Minute ventilation (L/min)	1/2 Hz (2 sec)	1 min
Pressure (cm H <sub>2</sub> O / hPa)	1/2 Hz (2 sec)	1 min
Snore (quiet to loud)	1/2 Hz (2 sec)	1 min
Pulse rate (beats/min)—if an oximeter adapter is attached	1 Hz (1 sec)	1 min
Oxygen saturation (SpO <sub>2</sub> )—if an oximeter adapter is attached	1 Hz (1 sec)	1 min

## 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 **ull** 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 AirCurve 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 AirCurve 10 device may be taken on board as carry-on luggage. Medical devices do not count toward the carry-on luggage limit.

The AirCurve 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).

## riangle 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 fr	om the device
Ramp may be turned off.	Use the Ramp Time option.
The patient feels that not enough air is being delivered	from the device
Ramp may be in progress.	Wait for air pressure to build up or turn Ramp Time off.
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 after 30 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 <b>ull</b> indicates good coverage when all bars are displayed, and poor coverage when fewer bars are displayed.		
The No wireless connection icon <b>a</b> 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 $H_2O$ (7 hPa), SmartStart will not work and should be disabled.		
Device messages			
Device message/possible cause	Solution		
High leak detected, check your water tub, tub seal or s	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.

Device message/possible cause	Solution		
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 $lacksquare$ to the unlock position $lacksquare$ 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 <b>Settings</b> . 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.		

# General warnings and cautions riangle M 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.
- 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.

## $\triangle$ 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**

100–240V, 50–60Hz 1.0–1.5A, Class II		
e)		
therapy		
room.		
013 hPa to		
)13		

#### Electromagnetic compatibility

The AirCurve 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: IEC 60601-1:2005+A1:2012

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

Sensors	
Pressure sensor:	Internally located at device outlet, analog gauge pressure type, -5 to +45 cm $H_2\mathrm{O}$ (-5 to +45 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  $H_2O$  (30 hPa) for more than 6 sec or 40 cm  $H_2O$  (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 80601-2-70:20	015 (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 accord	dance 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°F (68°C)	
Cut-out:	165°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 only)
	4G (USA and Canada only)
	3G
	2G (all regions except USA and Canada)
Frequencies	CDMA (850/1900 MHz)
	4G (700/850/1900 MHz)
	3G (850/900/1700/1800/1900/2100 MHz)
	2G (850/900/1800/1900 MHz)
Max RF power output	CDMA 24.5 dBm
	4G 23.0 dBm
	3G 24.0 dBm
	2G 33.0 dBm

#### FCC ID: 2ACHL-AIR104G, 2ACHL-AIR103G IC: 9103A-AIR104G, 9103A-AIR103G

The AirCurve 10 device complies with FCC Rules and Industry Canada rules.

The AirCurve 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 and IC compliance for this device can be found on www.resmed.com/downloads/devices

Operating pressure range			
S, ST, T:	3 to 25 cm H₂O (3 to 25 hPa) 4 to 25 cm H₂O (4 to 25 hPa)		
VAuto:			
CPAP:	4 to 20 cm H <sub>2</sub> O (4 to 20 hPa)		
Supplemental oxygen			
Maximum flow:	For VAuto device: 4 L/min (CPAP, S, VAuto)		
	For S device: 4L/min (CPAP, S)		
	For ST device: 15 L/min (CPAP, S, ST, T)		
Pneumatic flow path			
1 2 3 4	1. Flow sensor		
	2. Blower		
	3. Pressure sensor		
	4. Mask		
	5. Air tubing		
	6. Water tub		
8 7 6 5	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		
General			

The patient is an intended operator.

#### Humidifier performance

Mask Pressure cm H <sub>2</sub> O (hPa)	RH output % at RH output % at 63°F (17°C) ambient 72°F (22°C) ambient		Nominal system output AH <sup>1</sup> , BTPS <sup>2</sup>	
	temperature Setting 4	temperature Setting 8	Setting 4	Setting 8
3	85	100	6	>10
4	85	100	6	>10
10	85	100	6	>10
20	85	90	6	>10
25	85	90	6	>10

<sup>1</sup> AH - Absolute Humidity in mg/L

<sup>2</sup> BTPS - Body Temperature Pressure Saturated

#### Air tubing

Air tubing	Material	Length	Inner diameter	
ClimateLineAir	Flexible plastic and electrical components	6'6" (2 m)	0.6" (15 mm)	
ClimateLineAir Oxy	Flexible plastic and electrical components	6'4" (1.9 m)	0.75" (19 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 temperature cut-out: $\leq$ 106°F ( $\leq$ 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	3–25 cm H <sub>2</sub> O (3–25 hPa)	0.1 cm H <sub>2</sub> O (0.1 hPa)		
Flow derived values:				
Leak	0–120 L/min	1 L/min		
Tidal volume	0–4000 mL	1 mL		
Respiratory rate	0–50 bpm	1 bpm		
Minute ventilation	0–30 L/min	0.1 L/min		
Ti	0.1-4.0 sec	0.1 sec		
I:E ratio	1:100–2:1	0.1		
Value	Accuracy <sup>1</sup>			
Pressure measurement <sup>1</sup> :				
Mask pressure <sup>2</sup>	$\pm$ [0.5 cm H <sub>2</sub> O (0.5 hPa) + 4% of measured value]			
Flow and flow derived values <sup>1</sup> :				
Flow	±6 L/min or 10% of reading, whichever is greater, at 0 to 150 L/min positive flow			
Leak <sup>2</sup>	±12 L/min or 20% of reading, whichever is greater, 0 to 60 L/min			
Tidal volume <sup>2,3</sup>	± 20%			
Respiratory rate <sup>2,3</sup>	± 1.0 bpm	± 1.0 bpm		
Minute ventilation <sup>2,3</sup>	± 20%			

<sup>1</sup> Results are expressed as STPD (Standard Temperature and Pressure, Dry).

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

<sup>3</sup> Measurement accuracy verified as per ISO 10651-6:2004 for Home Care Ventilatory Support Devices (Figure 101 and Table 101) using nominal ResMed mask vent flows.

#### 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)	$\pm$ 5 mL or 6% of reading (whichever is greater)
For measures of volume (≥ 100 mL)	$\pm$ 20 mL or 3% of reading (whichever is greater)
For measures of static pressure	$\pm 0.15$ cm H <sub>2</sub> O (hPa)
For measures of dynamic pressure	$\pm 0.27$ cm H <sub>2</sub> 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 v ISO 80601-2-70:2015	ariation at 10 cm H	20 (10 hPa) according	to
	Standard air tub	ing	SlimLine air tubing
Without humidification	$\pm$ 0.5 cm H <sub>2</sub> O ( $\pm$ 0.	5 hPa)	± 0.5 cm H <sub>2</sub> O (± 0.5 hPa)
With humidification	$\pm 0.5$ cm H <sub>2</sub> O ( $\pm 0$ .	5 hPa)	$\pm$ 0.5 cm H <sub>2</sub> O ( $\pm$ 0.5 hPa)
Maximum dynamic pressur	e variation accordi	ng to ISO 80601-2-70:2	2015
Device without humidification	and Standard air tub	oing / Device with humid	lification and Standard air tubing
Pressure [cm H <sub>2</sub> 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
25	0.3 / 0.3	0.5 / 0.4	0.7 / 0.7
Device without humidification	and SlimLine air tub	ing / Device with humidi	ification and SlimLine air tubing
Pressure [cm H <sub>2</sub> 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
25	0.4 / 0.3	0.6 / 0.5	0.8 / 0.8

#### Pressure accuracy - bilevel

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

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

Breath	Inspiratory pressure (cm H <sub>2</sub> O [hPa]) (Means, Standard Deviations)				
rate	6	10	16	21	25
10 BPM	-0.09, 0.01 / -0.22, 0.01	-0.01, 0.07 / -0.22, 0.01	0.07, 0.05 / -0.24, 0.01	-0.03, 0.09 / -0.29, 0.03	0.12, 0.01 / -0.26, 0.02
15 BPM	0.02, 0.08 / -0.22, 0.01	0.12, 0.01 / -0.22, 0.01	0.15, 0.01 / -0.26, 0.01	0.15, 0.01 / -0.31, 0.02	0.16, 0.12 / -0.30, 0.02
20 BPM	0.17, 0.01 / -0.23, 0.01	0.21, 0.01 / -0.28, 0.01	0.25, 0.01 / -0.34, 0.01	0.21, 0.17 / -0.38, 0.02	0.32, 0.02 / -0.40, 0.03
Breath	Expiratory pressure (cm H <sub>2</sub> O [hPa]) (Means, Standard Deviations)				
rate	2	6	12	17	21
10 BPM	-0.14, 0.01 / -0.27, 0.01	-0.16, 0.01 / -0.29, 0.02	-0.11, 0.10 / -0.34, 0.02	-0.16, 0.05 / -0.33, 0.01	-0.17, 0.05 / -0.33, 0.02
15 BPM	-0.16, 0.01 / -0.25,	-0.20, 0.01 / -0.33,	-0.20, 0.05 / -0.35,	-0.21, 0.05 / -0.38,	-0.23, 0.08 / -0.38,
	0.01	0.02	0.01	0.02	0.02

Breath	Inspiratory pressure (cm H2O [hPa]) (Means, Standard Deviations)				
rate	6	10	16	21	25
10 BPM	-0.26, 0.01 / -0.52,	-0.25, 0.02 / -0.53,	-0.24, 0.02 / -0.53,	-0.25, 0.02 / -0.54,	-0.20, 0.02 / -0.51,
	0.01	0.02	0.01	0.02	0.02
15 BPM	-0.26, 0.01 / -0.51,	-0.25, 0.01 / -0.54,	-0.26, 0.01 / -0.56,	-0.31, 0.03 / -0.58,	-0.30, 0.05 / -0.60,
	0.01	0.01	0.01	0.02	0.03
20 BPM	-0.25, 0.02 / -0.52,	-0.29, 0.02 / -0.58,	-0.34, 0.02 / -0.62,	-0.36, 0.02 / -0.67,	-0.36, 0.03 / -0.69,
	0.01	0.01	0.01	0.02	0.02
Breath	Expiratory pressure (cm H <sub>2</sub> O [hPa]) (Means, Standard Deviations)				
rate	2	6	12	17	21
10 BPM	-0.28, 0.01 / -0.43,	-0.30, 0.03 / -0.50,	-0.30, 0.01 / -0.54,	-0.33, 0.01 / -0.58,	-0.34, 0.01 / -0.60,
	0.01	0.01	0.01	0.01	0.02
15 BPM	-0.24, 0.02 / -0.37,	-0.29, 0.02 / -0.47,	-0.35, 0.01 / -0.55,	-0.38, 0.01 / -0.62,	-0.42, 0.02 / -0.66,
	0.01	0.01	0.01	0.02	0.01
20 BPM	0.05, 0.21 / -0.38,	-0.31, 0.02 / -0.50,	-0.37, 0.02 / -0.57,	-0.43, 0.02 / -0.65,	-0.48, 0.02 / -0.68,
	0.01	0.02	0.02	0.02	0.02

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

Note: The table above is based on data that covers between 60.1 and 88.8% of the inspiratory phase and 66.1 and 93.4% of the expiratory phase durations. These data time slots start immediately after the initial transient overshoot/undershoot periods and end at the point that flow diminishes to an equivalent absolute value of its starting point, towards the end of the breath phases (this corresponds to the % ranges of values given immediately above).

#### 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 cm H₂O (hPa)	AirCurve 10 and Standard L/min	AirCurve 10, humidification and Standard L/min	AirCurve 10 and SlimLine L/min	AirCurve 10, humidification and ClimateLineAir 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
25	120	115	96	84

## Symbols

The following symbols may appear on the product or packaging.

Read instructions before use. A Indicates a warning or caution. I Follow instructions before use. M Manufacturer.
ECREP European Authorized Representative.
Batch code.
REF Catalog number. SN Serial number. N Device number. O On / Off. D 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. S Humidity limitation.
China pollution control logo 1. O China pollution control logo 2. R Only Prescription only (In the US, Federal 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.

## X

#### 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 ResMed.com/environment.

## Servicing

The AirCurve 10 device is intended to provide safe and reliable operation when operated in accordance with the instructions provided by ResMed. ResMed recommends that the AirCurve 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

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	
Portable diagnostic/screening devices	

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.





See ResMed.com for other ResMed locations worldwide. Air10, AirCurve, AirView, AutoSet, ClimateLine, HumidAir, ResScan, SlimLine and SmartStart are trademarks and/or registered trademarks of the ResMed family of companies. For patent and other intellectual property information, see ResMed. com/ip. Actichlor is a trademark of Ecolab US Inc. Alconox is a trademark of Alconox Inc. Cavicide is a registered trademark of Metrex Research, LLC. CIDEX is a registered trademark of Advanced Sterilization Products, Division of Ethicon US, LLC. Mikrozid and Terralin are trademarks of Schülke & Mayr GmbH. Neodisher MediZym is a trademark of Shell Chemical Co. @ 2017 ResMed Ltd. 378234/5 2017-12

ResMed.com