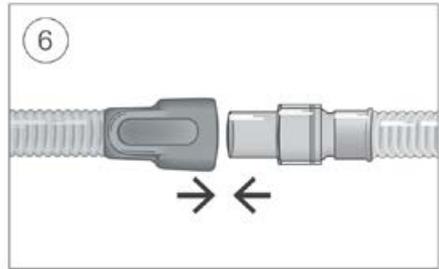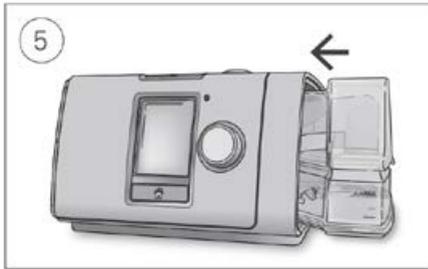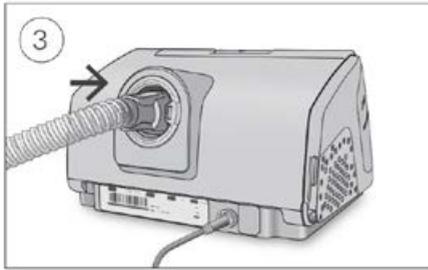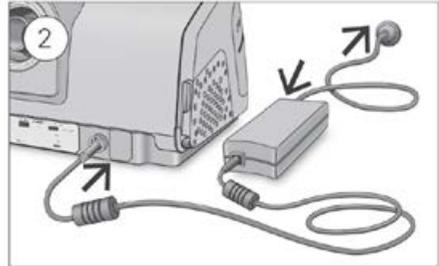# ResMed

AirCurve™ 10

ST

Home button for returning to the
Home screen at any time

Start/Stop button for starting therapy

Dial for navigating and changing options

Water tub for humidification

Quick start guide

English

Setup

⚠ CAUTION

Do not overfill the water tub as water may enter the device and air tubing.
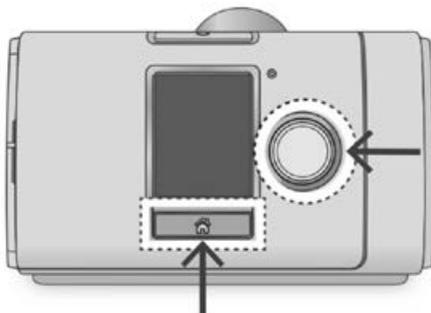
1. Place the device on a stable level surface.
2. Plug the power connector into the rear of the device. Connect one end of the power cord into the power supply unit and the other end into the power outlet.
3. Connect the air tubing firmly to the air outlet located on the rear of the device.
4. Open the 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

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

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.

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	S	ST	T	CPAP	Range
			Mode			
Mode	Sets the therapy mode available on the device	✓	✓	✓	✓	
Set pressure	Sets the fixed treatment pressure				✓	4-20 cm H_2O (4-20 hPa) 0.2 cm H_2O (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_2O (4-25 hPa) 0.2 cm H_2O (0.2 hPa) increments
EPAP	Sets the pressure to be delivered to the patient when the device is cycled into expiration	✓	✓	✓		2–[IPAP] cm H_2O (2–[IPAP] hPa), 0.2 cm H_2O (0.2 hPa) increments
Respiratory 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 the inspiration in timed breath. Dependent on respiratory rate			✓		0.3–4.0 sec, 0.1 sec, 0.1 sec increments
Rise Time	Set the time taken for pressure to increase from EPAP to IPAP The Rise Time scale can be approximately read as 'milliseconds' (e.g. 200 is approximately 200 ms)	✓	✓	✓		Min / 150–900 ms, 50 ms increments
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 resmed.com	✓	✓	✓	✓	Full face / Nasal / Pillows

Comfort

Parameter	Description	Mode				Range
		S	ST	T	CPAP	
Ramp time	Set the ramp time	✓	✓	✓	✓	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_2O (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_2O (0.2 hPa) increments
Climate Control	Available when water tub is used and ClimateLineAir™ heated air tubing is connected	✓	✓	✓	✓	Manual / Auto
Tube temperature	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 / 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_2

Options

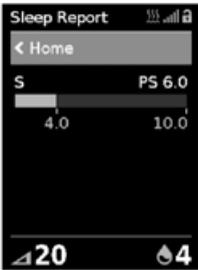| Parameter	Description	Range
Essentials	Set the level of access available to the patient	On / Plus
Leak Alert	Enable / disable the Leak Alert feature. When enabled, leaks >40 L/min (0.7 L/s) for >20 sec result in an audible alert and a high leak message is displayed	Off / On
SmartStart™	Enable / disable 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

Configuration

Parameter	Description	Range
Time	Set the current time 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	24 hours
Pressure units	Set the unit of pressure in which pressure is displayed	cm H_2O / hPa
Temperature 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.

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.

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.

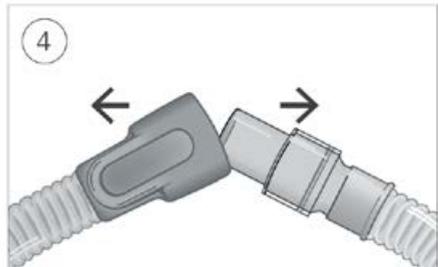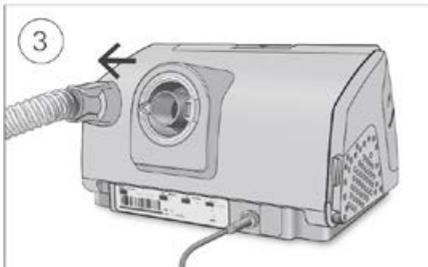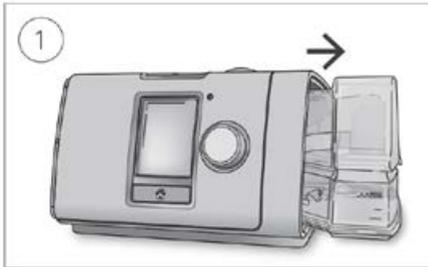The **Sleep Report** now provides a summary of the therapy session.

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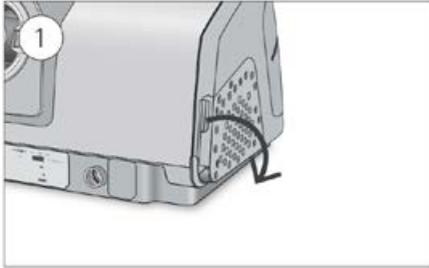
1. Wash the water tub and air tubing in warm water using only mild detergent.
   Do not wash in a dishwasher or washing machine.
2. Rinse the water tub and air tubing thoroughly and allow to dry out of direct sunlight and/or heat.
3. Wipe the exterior of the device with a dry cloth.

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's 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 healthcare 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.

⚠ 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.

Supplemental oxygen

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.

> **Note:**
> - 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 in the clinical guide.
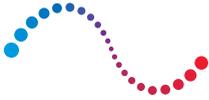
Antibacterial filters

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 [e.g. 2 cm H_2O (2 hPa) at 60L/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.

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