F&P myAirvo 3

Use and Care **Guide**

For patients and caregivers

Fisher & Paykel HEALTHCARE

F&P myAirvo 3

REF PT300AN

This document may be updated, replaced or rendered obsolete by other documents at any time and without notice. Ensure that you have the latest relevant version of this documentation. Contact Fisher & Paykel Healthcare if you are in doubt, or to obtain specific revisions.

For more information, please contact your local Fisher & Paykel Healthcare representative.

Before you start

- This user manual is for patients and healthcare professionals for use with the myAirvo™ 3. Patients should only use the myAirvo 3 under the care of a healthcare professional. Take care to follow their instructions carefully. Ask for more information if anything is not clear or you are uncertain about how to use your myAirvo 3 properly.
- While the information presented here is believed to be accurate, it is not a substitute for the professional advice of your physician.
- Read through these instructions carefully before using your myAirvo 3. Take note of any warnings and cautions, which will help you use your myAirvo 3 safely.
- If any device or accessory label is damaged or unreadable, contact your healthcare provider for a replacement.
- Your healthcare provider will set up your myAirvo 3 so that it is ready for your therapy as soon as it is turned on. Your physician will help you understand your therapy and how it can help you.

Throughout these instructions you will find warnings and cautions marked with the symbols shown below. Some will be familiar already but take care to understand all of these important points. Seek clarification from your healthcare provider if any are unclear. We want you to use your myAirvo 3 safely. Download this user manual online and watch training videos on the myAirvo website at: www.fphcare.com/myairvo3

⚠ Warning

A warning is a potential hazard which, if not avoided, could result in death or serious injury to you or a family member.

⚠ Caution

A caution is a potential hazard which, if not avoided, may result in minor or moderate injury to you or a family member.

ⓘ Note

Notes emphasize information that is important for using the myAirvo 3 correctly.

Contents

1. Introducing the myAirvo 3

The myAirvo 3 provides humidified delivery of high flow respiratory gases. These respiratory gases may be supplemented with additional oxygen, if required. A built-in oxygen analyzer directly monitors the concentration of oxygen in the respiratory gas delivered. The respiratory gases are delivered for breathing using a selection of nasal and tracheostomy patient interfaces. The myAirvo 3 can monitor SpO_2 and pulse rate using an optional pulse-oximeter accessory (see myAirvo 3 Technical Manual for more information).

1.1 Intended use

The myAirvo 3 is for the treatment of spontaneously breathing patients, infant to adult, who would benefit from receiving high flow warmed and humidified respiratory gases. This includes patients who have had upper airways bypassed. The flow may be from 2 – 60 L/min depending on the patient interface. The myAirvo 3 is for patients in homes and long-term care facilities.

2. Safety information

The myAirvo 3 and accessories are to be operated by, or under the supervision of, qualified personnel only. Read this manual, particularly all warnings, cautions and notes, and the instructions for use supplied with all accessories before using the myAirvo 3.

2.1 General

⚠ Warnings

- The myAirvo 3 is not intended for life support. Do not use myAirvo 3 on patients who cannot tolerate a brief interruption of therapy.
- Appropriate patient monitoring must be used at all times. Contact your healthcare provider if you have any concerns.
- Continuous SpO_2 monitoring should be used on patients who would desaturate significantly in the event of disruption to their oxygen supply.
- Nasal delivery of respiratory gases may generate flow-dependent dynamic positive airway pressure. This must be considered where positive airway pressure could have adverse effects on a patient. Refer to instructions of patient interfaces and/or tube and chamber kits for therapy-specific contraindications and warnings.
- Loss of therapy will occur if the wall power supply is turned off or disconnected and the optional battery is depleted or not installed.
- Do not use any patient consumables, accessories or replacement parts that are not listed in the myAirvo 3 User Manual, or the myAirvo 3 Technical Manual. Incompatible consumables, parts or accessories could affect the quality of therapy, injure the patient, decrease electromagnetic immunity or increase electromagnetic emissions.
- Use only patient interfaces and heated breathing tubes specified in this manual to prevent disconnection during use, especially when moving the myAirvo 3.
- Do not use antistatic or electrically conductive hoses or tubing with the myAirvo 3.
- Carefully route accessories, cords and cables, including the breathing tube, to reduce the possibility of patient entanglement or strangulation.
- Keep the air openings free of lint, dust, hair and other foreign objects.
- Excess pet hair in the home may block the air filter and compromise performance. Check the air filter regularly and replace if there is a build-up of debris.
- Take care that water does not spill from the water chamber into the myAirvo 3 when moving the device.
- Visually inspect the myAirvo 3 and accessories before use and replace if damaged or suspected to be damaged. Using a damaged device or accessories may impair performance and/or compromise safety.
- Do not use accessories beyond the maximum period of use specified in this manual. Exceeding the maximum use period can result in serious injury, including infection.
- Make sure the auditory alarm signal is audible by following the Checking the alarm system section instructions to test the alarm before starting patient therapy.
- Do not use a myAirvo 3 on more than one patient without following the disinfection process between patients.
- If any device or accessory label is damaged unreadable contact your healthcare provider for a replacement.

- Do not connect the myAirvo 3 to the battery of a battery powered wheelchair, as this may compromise device performance and therapy delivered.
- Do not expose the myAirvo 3 battery to water, fire or excessive heat. Do not crush, disassemble or puncture the battery, or short circuit the connector terminals.
- In the event of a battery leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Seek medical advice immediately if a cell or a battery has been swallowed.

Operating conditions

- Do not use the myAirvo 3 when outside the operating conditions listed in the specifications section. Therapy may be compromised outside this range.
- Do not use the myAirvo 3 at altitudes above 3000 m. Note that performance is reduced above 3000 m.
- Do not use the myAirvo 3, or accessories, during defibrillation.
- Do not use the myAirvo 3 in a magnetic resonance imaging (MRI) environment.

To avoid burns:

- Do not touch the hot surface of the heater plate or chamber base.
- Read all the warnings in the oxygen section of this manual on page 19 before using the myAirvo 3 with oxygen.
- Never operate the myAirvo 3 if:
    - the heated breathing tube has been damaged in any way including holes, tears or kinks,
    - it is not working properly, or
    - water has entered the device.
- Do not restrict ventilation around the myAirvo 3, which may cause it to overheat.
- Do not block the flow of air into the myAirvo 3 by covering or placing the myAirvo 3 on a soft surface (e.g. a bed, sofa, couch or blanket). Blocking the airflow may interfere with the breathing gas supplied to the patient.
- Do not block the flow of air through the myAirvo 3 or breathing tube.

To avoid electric shock:

- Do not store or use the myAirvo 3 where it can fall or be pulled into water. Stop using the myAirvo 3 immediately if water has entered the case and disconnect the power cord from the wall power supply.
- Never operate the myAirvo 3 if it has, or is suspected of having:
    - been dropped or damaged,
    - a damaged power cord or plug, or
    - been dropped into water.

  Refer to the myAirvo 3 Technical Manual to replace a damaged power cord.
- Do not remove the power cord from the myAirvo 3 unnecessarily. Grip the plug, and not the cable, if removing the power cord. Do not pull on the cable.
- Do not adjust, repair, open, disassemble or modify the myAirvo 3 except as described in this user manual or the myAirvo 3 Technical Manual. Return the myAirvo 3 to your Fisher & Paykel Healthcare representative for servicing, if necessary.
- Do not touch the patient at the same time as any conductive parts of the device, such as USB ports.

To avoid choking, or inhalation of a foreign object:

- Do not operate the myAirvo 3 unless the air filter is correctly installed.
- Never drop or insert any object into any opening or tube.
- Make sure the myAirvo 3 is level and positioned lower than the patient's head during use.

⚠ Cautions

- Connect the myAirvo 3 to the wall power supply promptly after a Low Battery alarm to avoid loss of therapy when the device shuts down.
- Make sure the myAirvo 3 humidifier is placed at least 20 cm (8") from your body when turned on to reduce exposure to radio-frequency energy from the built-in cellular modem.
- The amount of therapy time available after the Low Battery alarm will vary depending on the age of the battery module. All batteries lose capacity with age.

ⓘ Notes

- Changes or modifications not expressly approved by Fisher & Paykel Healthcare, voids the user's authority to operate the device.
- The built-in oxygen analyzer uses ultrasonic measurement technology. It does not require in-field calibration.
- Any serious incident that occurs in relation to the device should be reported to your Fisher & Paykel Healthcare representative and the competent local authority where the incident occurred and/or patient resides.

2.2 Reprocessing

⚠ Warnings

- When using the myAirvo 3 with multiple patients (in a long-term care facility, for example) follow hospital infection control guidelines to reduce risk of cross-contamination. The myAirvo 3 is not a sealed system.
- Do not submerge the myAirvo 3 or accessories in any cleaning solution or attempt to sterilize by autoclave, irradiation, steam, gas, ethylene oxide or any other method. This will seriously damage the device. Any device or accessory so treated should be discarded. It will never work properly again.
- Do not use any solutions, suspensions, emulsions, anesthetic or respirable gases that are not identified in this user manual. They may not be compatible with the patient consumables, device or accessories.
- Use only genuine Fisher & Paykel Healthcare replacement battery modules to prevent damage to the myAirvo 3, excess temperature, fire or explosion.
- Do not dispose of the battery in a fire; it could catch fire and explode.
- Dispose of batteries in accordance with local guidelines.

2.3 Pulse oximetry

⚠ Warnings

- Do not adjust, repair, open, disassemble, or modify the pulse oximeter sensor, cable or adapter. Injury to personnel or equipment damage could occur. Return the device for servicing if necessary.

- Explosive hazard: Do not use this device in an explosive atmosphere or in the presence of flammable anesthetics or gases.
- Avoid using the myAirvo 3, or accessories, adjacent to, or stacked with, other equipment, which could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally

⚠ Cautions

- Disconnect the pulse oximeter patient cable from the myAirvo 3 before cleaning the pulse oximeter sensor, cable or adapter to avoid electric shock and flammability hazards.
- Do not place the pulse oximeter sensor, cable or adapter on electrical equipment that may affect the device, preventing it from working properly.
- To minimize radio interference, other electrical equipment that emits radio frequency transmissions should not be used near the pulse oximeter sensor, cable, or adapter.

Nonin:

- Operation of the Nonin LP Xpod connector below the minimum amplitude of 0.3% modulation may cause inaccurate results.
- The Nonin LP Xpod connector has motion tolerant software that minimizes the likelihood of motion artefact being misinterpreted as good pulse quality. In some circumstances, however, this device may still interpret motion as good pulse quality. This covers all available outputs (i.e. SpO_2, PR, PLETH, PPG).

ⓘ Notes

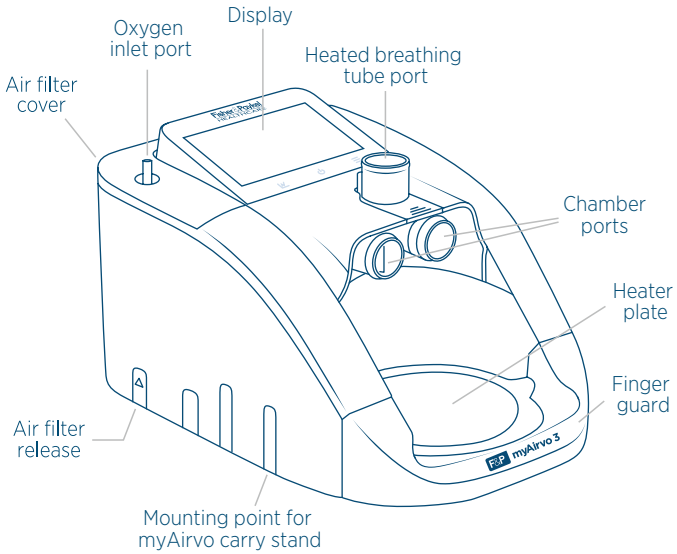
Nonin:

- For more information about required safety and regulatory requirements for pulse oximeters, refer to ISO 80601-2-61, and IEC 60601-1. Additional safety information can be found in the labelling provided with each Nonin sensor.

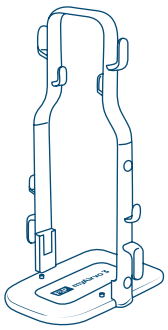
3. myAirvo 3 and accessories

The myAirvo 3 and accessories include:

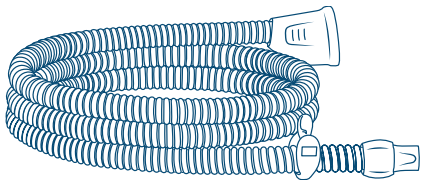
- myAirvo 3: a flow generator and humidifier;
- a water chamber: either a reusable water chamber or an auto-fill chamber, where the breathing gases are warmed and humidified;
- an AirSpiral heated breathing tube, to conduct the breathing gases, and
- a nasal, tracheostomy or mask adapter interface to deliver the breathing gases to the patient. Only use patient interfaces compatible with the myAirvo 3. Refer to the patient consumables table for a list of compatible patient interfaces.



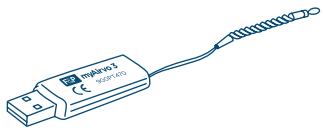
myAirvo 3 flow-generator and humidifier



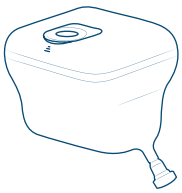
myAirvo carry stand



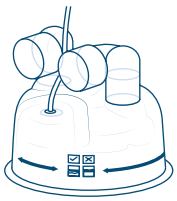
AirSpiral heated breathing tube



myAirvo 3 InfoUSB and F&P InfoSmart™

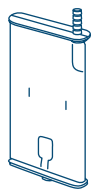


Water bottle



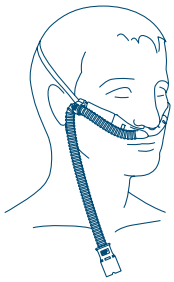
Auto-fill chamber

Reusable water chamber



Air filter

Nasal interface



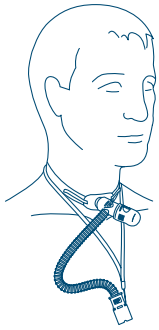
Optiflow+

OPT942E MYOPT9SMALL
OPT944E MYOPT9MEDIUM
OPT946E MYOPT9LARGE

Optiflow Jr 2

OJR416HM
OJR418HM

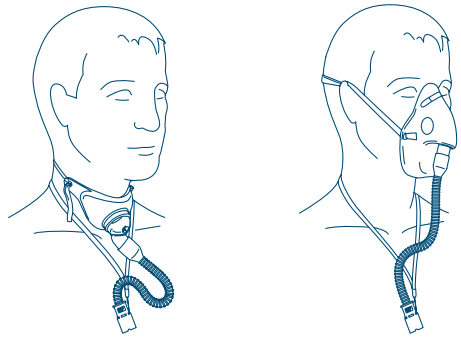
Tracheostomy interface



Optiflow+

OPT970E
MYOPT9TRACHE

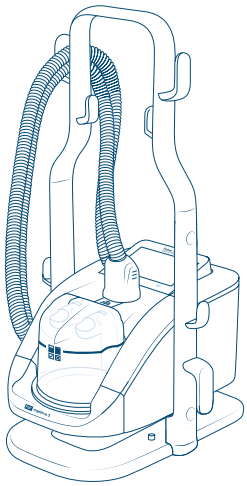
Mask adapter interface



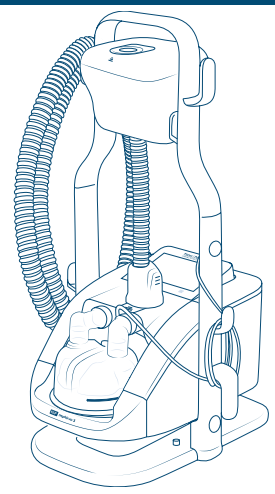
Optiflow+

OPT980E
MYOPT9MASK

myAirvo 3 Set up



Reusable Chamber

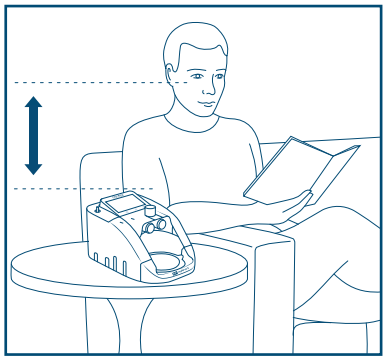


Auto-fill Chamber

4. Using your myAirvo 3

At the start of each therapy session you will need to prepare your myAirvo 3.

4.1 Set up the myAirvo 3



Before starting your therapy, you will need to ensure that the device is level and that the top of the humidifier is below head-height during therapy.

If your device does not have the optional battery installed, you can place the myAirvo 3 directly on the floor, a low shelf or on the myAirvo home stand. If your device has the optional battery installed, you will need to use the myAirvo home stand (MYAIRVOSTAND1) to ensure the device is level. Refer to myAirvo 3 Set up on Section 3.

Place the myAirvo 3 beside your bed or the chair where you will use the device.

⚠ Warnings

- Do not place the myAirvo 3 above head height. Placing the myAirvo 3 above head height could allow water to enter the breathing tube, which might be inhaled and cause choking or other injury.
- Do not cover the myAirvo 3 or place it near a heater (within 1 m, 3'). For example, covering the device with a blanket or exposing the device to a radiant heater or fireplace may cause the device to overheat and malfunction.

4.2 Prepare the water chamber

The respiratory gases are warmed and humidified inside the water chamber.

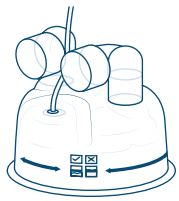
There are two types of water chamber available for the myAirvo 3, the:

- reusable water chamber, and
- auto-fill water chamber.

Follow the steps in the user manual included with your chamber or tube and chamber kit to set up your chamber.

The table below show approximately how long a full water chamber or water bottle will last on the myAirvo 3 at different flow rates.

Reusable water chamber



Auto-fill water chamber

Flow, L min^{-1}	myAirvo 3 water use time in hours	
	Reusable chamber (MYAIRVOCHAMBER1) (560 mL)	Auto-fill chamber and water bottle (MYAIRVOKIT1 and MYAIRVOBOTTLE1) (800 mL)
2	72	103
5	33	48
10	17	25
15	11	17
20	9	12
25	7	10
30	6	8.5
35	5	7
40	4.5	6.5
45	4	5.5
50	3.5	5
55	3	4.5
60	3	4

⚠ Warnings

- Take care not to burn yourself when removing the water chamber or moving the myAirvo 3. The water in the chamber and the bottom of the chamber will be hot during and after use.
- Do not turn on the myAirvo 3 without the water chamber in place.
- Keep the water chamber level when moving the myAirvo 3. Water can spill inside and damage the myAirvo 3 if you tilt the device while the chamber contains water.
- Do not use the auto-fill water chamber if it has been dropped or allowed to run dry. This could lead to the chamber overfilling.
- The water in the chamber and the bottom of the chamber will be hot during use. Take care not to burn yourself when removing the chamber or moving the myAirvo 3.
- Do not use the auto-fill chamber if the water level rises above the maximum water level line. This may lead to water entering the patient's airway.

⚠ Cautions

- Use only distilled water with the auto-fill chamber. Adding other substances can damage the humidifier and adversely affect the therapy delivered.
- Use only drinkable tap water or distilled water in the reusable chamber. Adding other substances can damage the humidifier and adversely affect the therapy delivered.

4.3 Connect the AirSpiral heated breathing tube

The AirSpiral heated breathing tube carries the breathing gases generated by your myAirvo 3 to your nasal, tracheostomy, or mask adapter interface. It is warmed to help prevent condensation building up inside the breathing tube.

Only use compatible AirSpiral breathing tubes that are specified in the patient consumables list.

Follow the steps in the user manual included with your AirSpiral tube or AirSpiral tube and chamber kit to set up your heated breathing tube.

⚠ Warnings

- Do not allow the heated breathing tube to remain in direct contact with your skin for long periods of time to avoid the risk of burns. Your healthcare provider will assess the conditions for safe contact, such as duration and skin condition.
- Do not cover or heat any part of the heated breathing tube. Covering or heating the breathing tube (e.g. with a blanket, insulating sleeve, bedcovers, heater or incubator) could result in a serious injury.

⚠ Caution

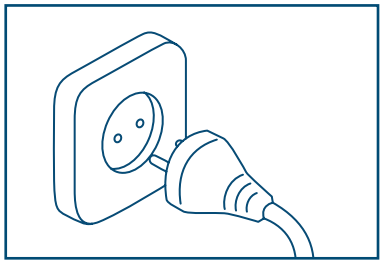
Keep the heated breathing tube away from electrical monitoring leads (e.g. EEG, ECG/EKG, EMG, pulse oximeter) to reduce the risk of interference with the signal monitored.

4.4 Pulse oximeter

Follow the instructions in the *Pulse oximetry* section if your healthcare provider has supplied you with a pulse oximeter to monitor your blood-oxygen saturation (SpO_2).

4.5 Switch on your myAirvo 3

Make sure you have the myAirvo 3 in a location where you don't need to move it when starting therapy.



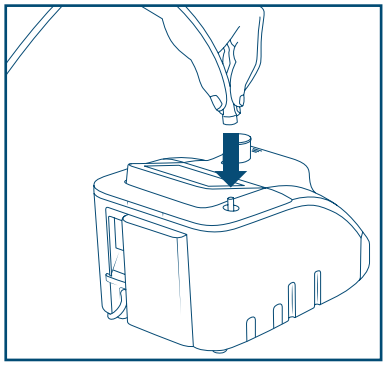
Plug the myAirvo 3 power cord into a power outlet. Position the myAirvo 3 so that the power cord connection to the wall power supply is easily accessible and can be disconnected if necessary.

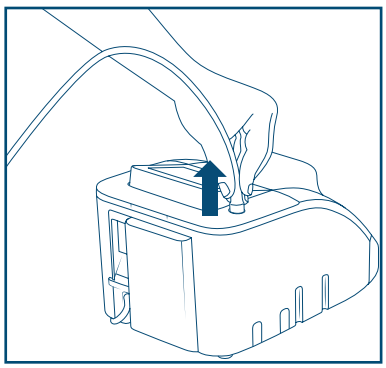
Switch on the myAirvo 3 by holding down the Power Button for 2 seconds.

⚠ Warnings

- Make sure the myAirvo 3 is dry before plugging it into the wall power supply to avoid a potential electric shock.
- Do not use the myAirvo 3 if the device, power cord or any accessories are damaged, deformed or cracked. A damaged cord could give you a fatal electrical shock.
- Ensure you will not become entangled in the power cord, or any extension cords, while using the myAirvo 3 to avoid choking or strangulation.
- Do not turn on the myAirvo 3 without the water chamber in place.
- Loss of therapy will occur if the wall power supply is turned off or disconnected and the optional battery is depleted or not installed

4.6 Connect oxygen supply





If you have been prescribed supplementary oxygen, connect your oxygen supply while the myAirvo 3 is warming up. Connect the tube from your oxygen supply to the oxygen port on the top of the myAirvo 3. Push the oxygen tube firmly onto the connector.

Follow the instructions provided by your healthcare provider to turn on your oxygen supply and select the prescribed flow rate. It is important that you use both the oxygen flow rate and myAirvo 3 flow rate as prescribed by your physician. Do not change the prescribed settings without consulting your healthcare provider.

If a FiO_2 High or FiO_2 Low alarm occurs, check that the oxygen tube is properly connected, and you have set up the oxygen source correctly. Contact your healthcare provider if the problem persists.

Turn off and disconnect the oxygen supply when your therapy is finished.

⚠ Warnings

- Make sure the myAirvo 3 is turned on before connecting oxygen.
- You must take special care when using oxygen to reduce the risk of fire:
  - Do not use oxygen while smoking, near sparks or open flames.
  - Keep all ignition sources away from the myAirvo 3 when using oxygen. This includes matches, lighters, gas cookers and electric motors.
  - Make sure ventilation around the myAirvo 3 is not restricted.
- A spontaneous and violent ignition may occur if oil, grease or greasy substances contact oxygen under pressure. Keep these substances away from all oxygen equipment.
- Do not connect oxygen with a flow rate exceeding 15 L/min to the oxygen inlet port on the myAirvo 3.

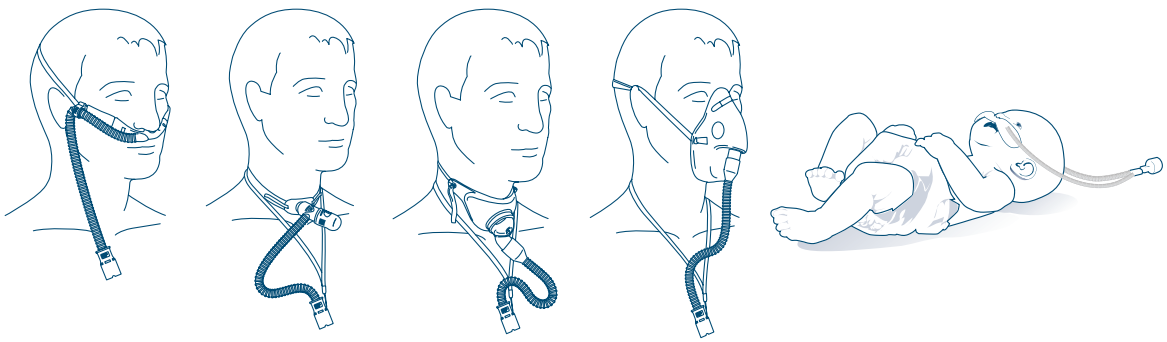
- Oxygen must only be added through the inlet port on the top of the filter. The filter must be properly inserted into the filter slot.
- The oxygen concentration delivered can be affected by changes to the myAirvo 3 flow rate setting, supplementary oxygen flow rate, patient interface or any blockages in the airpath.
- Make sure the air filter is installed correctly before connecting supplementary oxygen.
- Connect only pure oxygen gas or oxygen supplied by an oxygen concentrator to the oxygen inlet port on the myAirvo 3 as directed by a healthcare provider. The myAirvo 3 may display an incorrect oxygen concentration if any other gas or mixture of gases is connected, or the myAirvo 3 is not correctly configured for the oxygen supply connected.
- Only use lotions and/or salves that are labelled as oxygen-compatible to avoid the risk of fire and burns.
- Oxygen must be turned off before the myAirvo 3 is turned off so that oxygen does not build up inside the device.

4.7 Connect the patient interface

Your healthcare provider will work with you to select the correct patient interface and show you how to adjust it for a comfortable fit. Talk with your physician if you have any questions or concerns.

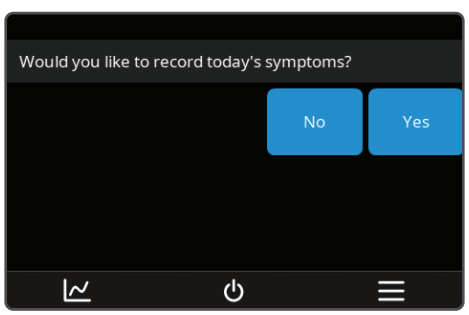
Follow the steps in the user manual included with your interface to connect to your heated breathing tube.

Some patient interfaces, such as the Optiflow Junior 2 nasal cannula, restrict the range of flow rates that can be delivered to the patient. Refer to the patient interface user manual for details.

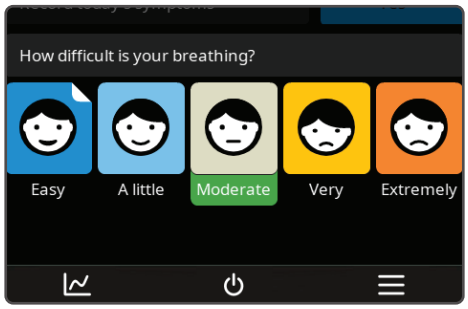


4.8 Answer patient diary questions

If your healthcare provider has turned on patient diary collection, the myAirvo 3 will prompt you to complete the questions they have selected for you. Not all healthcare providers need this information so myAirvo 3 may skip this step.



If prompted, tap Yes to answer the questions or No to skip this step and start therapy.



Answer each question by tapping the button that most closely describes your condition.

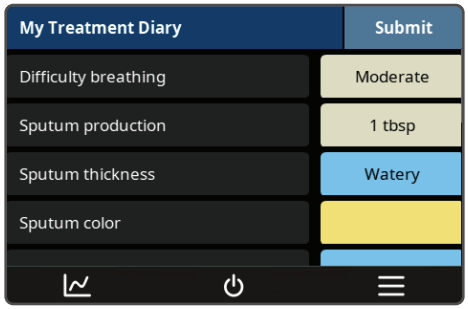
Work through each question in turn. Your healthcare provider may have selected different questions to the examples shown here.

Your answers are not sent straight away. You will be able to review and change any answer before submitting your responses to your healthcare provider.

The previous question, and your answer, are shown at the top of the screen.

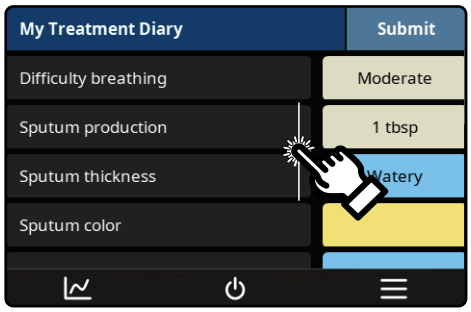
To change your answer to the previous question:

1. Tap your answer shown at the top of the screen
2. Select a new answer.

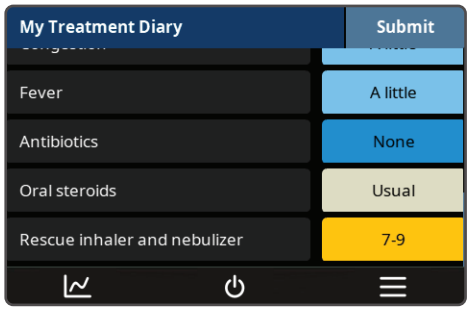


Review your answers after completing all the questions. Make any changes you desire.

- Tap any question to change your answer



- Touch the screen and swipe up or down to view all the questions and your answers.



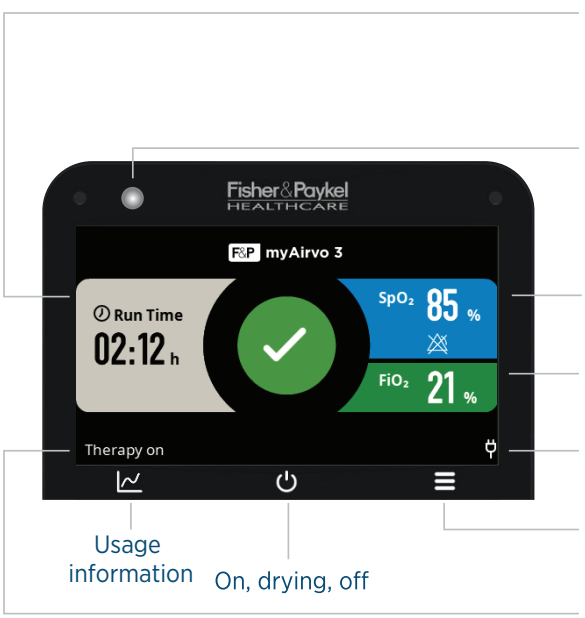
Once you are happy with your answers, tap the Submit button to send your responses to your healthcare provider.

⚠ Warning

If you are experiencing severe symptoms, contact your healthcare provider directly.

4.9 Screen overview

You will see the home screen when myAirvo 3 is plugged in and turned on. Your healthcare provider will set up your myAirvo 3 with the best settings for your therapy. Most users won't need to change any settings.



Run time
Duration of the therapy session.
Your healthcare provider will tell you how long each session should last.

Signal light
Indicates the myAirvo 3 requires your help to resolve an alarm.

Blood oxygen saturation
Measurements from a pulse oximeter.

Oxygen concentration†
The fraction of oxygen in the breathing gas.

Status icons (see Glossary).

myAirvo Menu
Show therapy and device information.

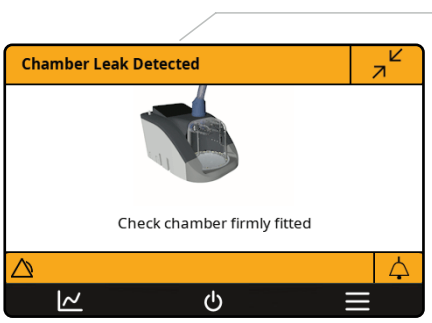
Message bar
Displays therapy information and alarms.

† May be hidden by your healthcare provider if not required.

4.9.1 Alarms

You may see an alarm if something unexpected happens. The myAirvo 3 will suggest actions to help you resolve the problem. See Alarms on page 39 for more help resolving alarms.

Alarms can be silenced for 120 seconds by tapping Audio Pause (🔔 button).



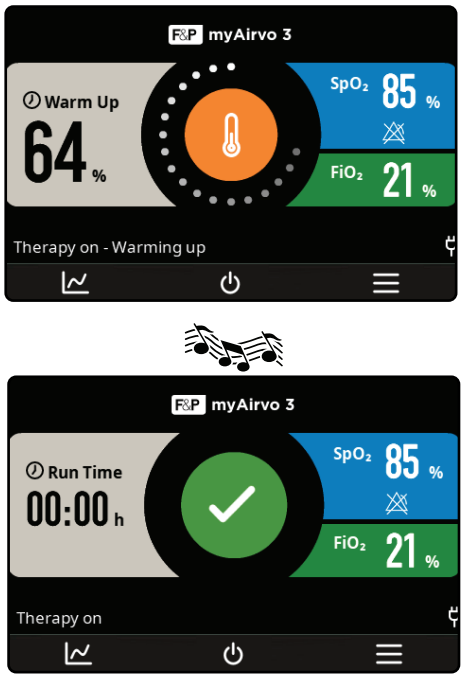
Alarm condition

Hide suggested actions

Suggested actions

Mute

4.9.2 Warming up



The myAirvo 3 will begin warming and humidifying the breathing gases when it is turned on.

The warmup symbol is shown on the screen while the myAirvo 3 is warming up.

The Therapy ON symbol is shown when the myAirvo 3 has finished warming up.

You can start using the device immediately but may find therapy more comfortable when the myAirvo 3 has finished warming up.

The myAirvo 3 will play a short melody when it has finished warming up and display the Therapy ON symbol.

4.10 During therapy

You have completed setting up the myAirvo 3 and your therapy has begun.

The breathing gases may feel warm when you start using the myAirvo 3. This is normal. Just continue to breathe normally. Follow the instructions provided by your physician for the duration and frequency of each therapy session.

4.10.1 Tracking accessory use

The accessory timers help you track when it is time to replace your air filter, patient interface, breathing tube and chamber kit so you don't exceed the maximum allowed use.

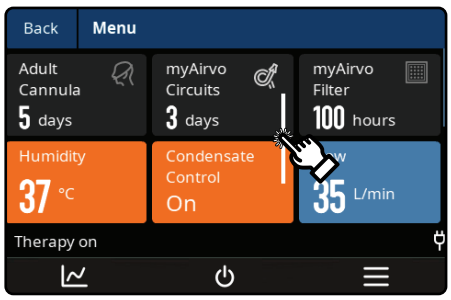
Check the timers while therapy is being delivered. Plan to replace any accessories that have exceeded the maximum allowed use before your next therapy session (if possible). Before starting the next therapy session, reset the timer for any accessory you replaced.

Talk to your healthcare provider about replacement accessories before exceeding the maximum allowed use (see *Timetable for changing accessories* on page 30).

Checking usage time

View the amount of time your accessories have been used, since the timer was last reset, by:

1. Tap ☰ to open the myAirvo menu.



2. Touching the screen and dragging up until the timers scroll into view.

Each tile displays the amount of time an accessory has been used for since it was last replaced, and the timer reset.

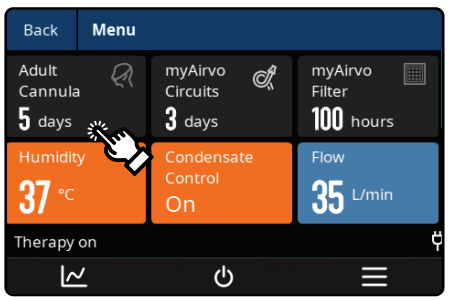
The ⚠ symbol will be displayed when it is time to replace an accessory.

Resetting usage timers

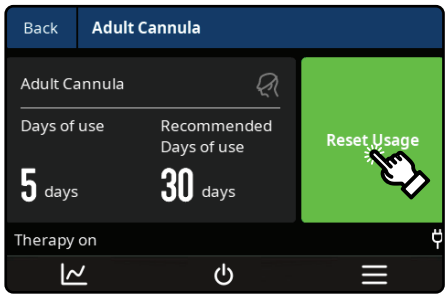
Reset the timer each time you replace a patient interface, air filter or breathing tube and water chamber kit so you know when it is time to replace them again. To reset a timer when you change an accessory:

1. Tap ☰ to open the myAirvo menu.

2. Touch the screen and drag up until the timers scroll into view.

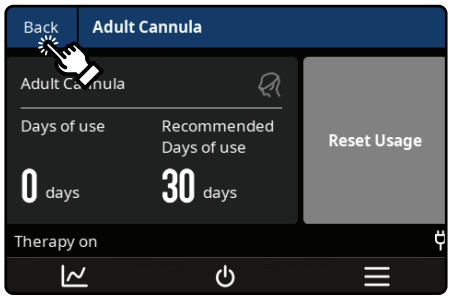


3. Tap the timer tile to show the timer details information.

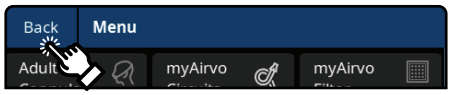


4. Tap the Reset usage button to set the timer back to zero when you start using a new accessory.
   You can tap Back if you change your mind and no longer want to reset the timer.

5. Confirm the timer reset by tapping Yes.
   If you don't want to reset the timer, tap No.

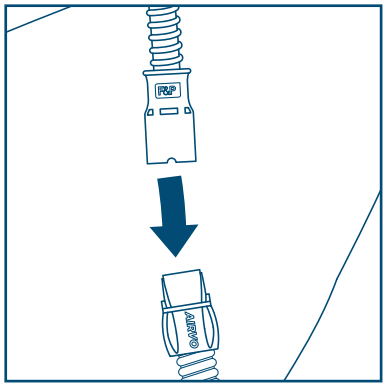


6. Tap the Back button when done to return to the menu. Then Back again to return to the Home Screen.



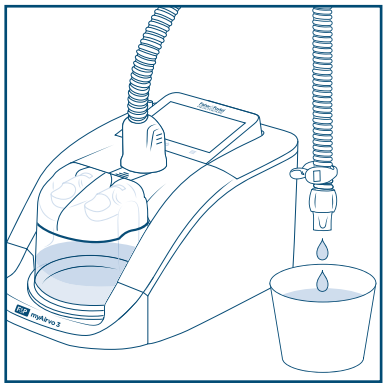
4.10.2 Managing condensation

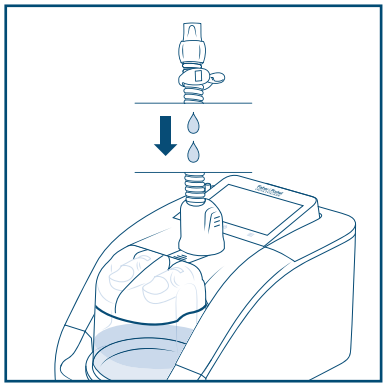
The myAirvo 3 must be placed below head-height and level. This helps condensate drain into the water chamber and away from the user.



Drain excess condensate that forms in the breathing tube by:

1. disconnecting the breathing tube from the patient interface, and
2. draining the condensate from the breathing tube by either:





- Lowering the patient-interface end of the tube into a container. Place the container below the myAirvo 3 so that condensate runs into the container.

  Or

- Lifting the patient interface end of the breathing tube so the condensate runs into the water chamber. If the condensate does not run freely into the water chamber, reduce the flow rate to 30 L/min or less, to allow the condensate to drain (refer to Adjusting the flow rate section). Return the flow rate to the prescribed setting after draining the breathing tube.

Direct cold air away from the heated breathing tube where possible. Air-conditioners, fans, open windows and other sources of cold air may increase condensation.

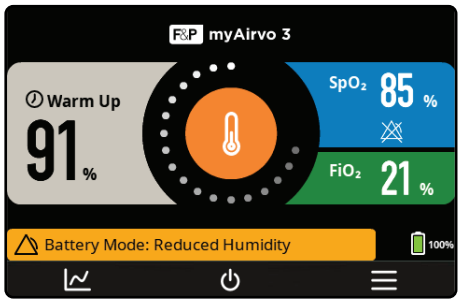
Refer to the Condensation Control section for more information about the Condensation Control feature.

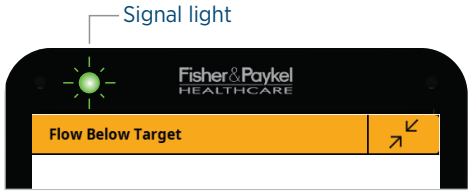
If condensation persists, talk to your healthcare provider.

4.10.3 Battery operation

A battery may be fitted to your myAirvo 3 to prevent interruptions to your therapy during power outage. A battery symbol will be displayed in the Message bar if a battery is fitted.

When using myAirvo 3 with the optional battery, you will need to plug in the device in order to successfully start up the device.





The myAirvo 3 will immediately switch to the internal battery if power is lost so your therapy can continue without interruption. A Battery Mode: Reduced Humidity warning will be displayed in the Message bar to let you know the power source has changed and the humidity output has been reduced.

A fully charged battery can be expected to provide at least 30 minutes of therapy, and up to 60 minutes when new.

Contact your healthcare provider if you think your battery may require replacement.

A Low Battery alarm will be displayed at 35% charge. A Critically Low Battery alarm will be displayed at 20% charge.

Connect the myAirvo 3 to wall power as soon as possible to continue therapy. The myAirvo 3 will automatically begin charging the battery when it is connected to the wall power.

The signal light will flash green while charging and will change to a solid green light while fully charged.

If there is an interruption to the power supply and no battery is present or the battery is depleted, the myAirvo 3 will raise a Power Out alarm and if power is not restored it will turn off and not deliver any therapy to the patient. Once power is restored the myAirvo 3 can be restarted and will retain the previous therapy and alarm settings.

⚠ Warnings

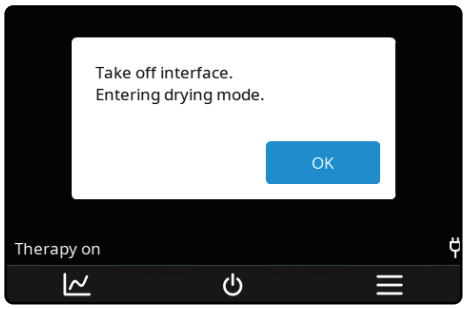
- Only charge the myAirvo 3 battery with the myAirvo 3 device.
- Only use the myAirvo 3 battery with the myAirvo 3 device.
- Keep the water chamber level when moving the myAirvo 3. Water can spill inside, and damage the myAirvo 3, if you tilt the device while the chamber contains water.
- Loss of power will result in loss of therapy. In the event of a critically low battery alarm, promptly connect the myAirvo 3 to the wall power supply to avoid loss of therapy due to the battery becoming depleted.
- If using the battery as the power source, periodically check the battery status to ensure the battery does not deplete while therapy is being delivered.
- Contact your healthcare provider to remove the battery from the device if it is not likely to be used for an extended period of time.

ⓘ Note

The battery level is very low and is required to be plugged back into a mains power supply to maintain therapy, or the battery has a fault. Humidification is turned off to ensure the continued delivery of flow and oxygen.

4.11 Stopping therapy

The myAirvo 3 shows the amount of time that therapy has been delivered in the therapy session on the Home Screen. Your healthcare provider will tell you how long to use the myAirvo 3 during each therapy session.



When your session is finished:

1. take off your patient interface,
2. turn off and disconnect any oxygen source attached to the myAirvo 3,
3. hold down the power button (⏻) for 3 seconds to stop therapy and start drying mode, then
4. Tap OK to confirm that you want to stop therapy and start drying mode.

Continue with the next chapter for more information about drying mode and the other steps you need to take after each therapy session to keep your myAirvo 3 working properly.

⚠ Warning

Do not wear the interface during drying mode. The air is hot and dry and may cause injury.

5. After use: caring for your myAirvo 3

It is important to carefully follow these instructions to extend the life of the consumables and prevent damage to the myAirvo 3.

⚠ Warnings

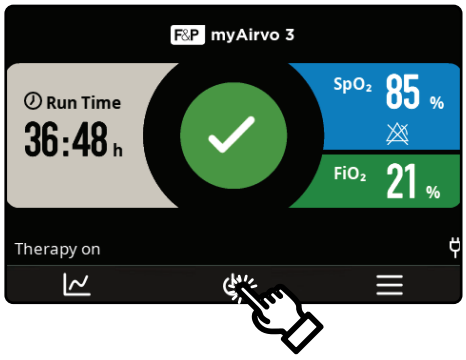
The instructions provided here are for a single patient using the myAirvo 3, patient interface, breathing tube and water chamber in their home only.

The patient interface, heated breathing tube, water chamber and outlet elbow may become contaminated during use. If the myAirvo 3 is used by multiple patients (for example, in a long-term care facility):

- The myAirvo 3 must be cleaned and disinfected between use. Refer to the disinfection kit (900PT600) manual for the correct procedure.
- The patient interface, heated breathing tube and water chamber must be changed between patients.
- Dispose of all single-use accessories in accordance with local laws and regulations.

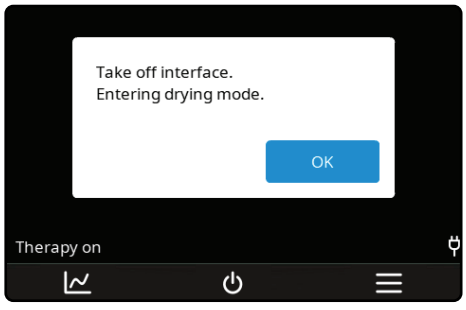
5.1 Daily care

Daily care begins with automatic drying mode, which dries the heated breathing tube and patient interface.



Start drying mode when your therapy session is finished by:

5. taking off your patient interface,
6. turning off and disconnecting any oxygen source attached to the myAirvo 3,
7. holding down the power button (⏻) for 3 seconds to stop therapy and start drying mode, then

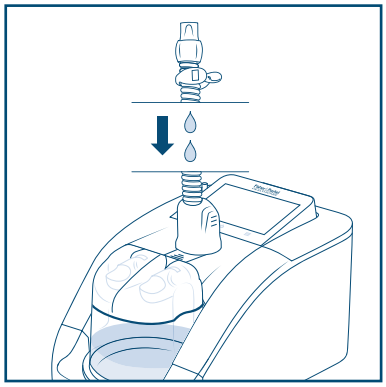


8. tap OK to confirm that you want to stop therapy and start drying mode.

Drying mode takes 99 minutes; the countdown shows the time remaining. The myAirvo 3 turns off automatically when drying mode is finished.

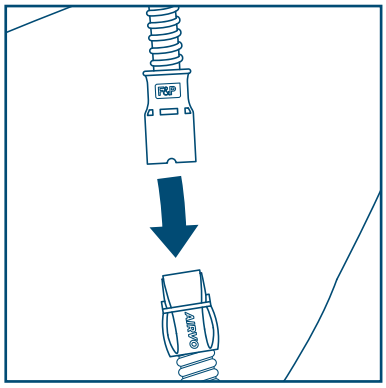
Leave your myAirvo 3 connected to the wall power while drying mode is running. If the wall power supply is turned off or disconnected and the optional battery is depleted or not installed, drying mode will stop.

If you need to turn off the myAirvo 3 before drying mode has finished, hold down the power button for 3 seconds. However, we recommend that you always allow drying mode to finish to help prolong the life of your myAirvo 3.



Follow these steps, immediately after stopping therapy, every time that you use the myAirvo 3. Carry out these steps while drying mode is running.

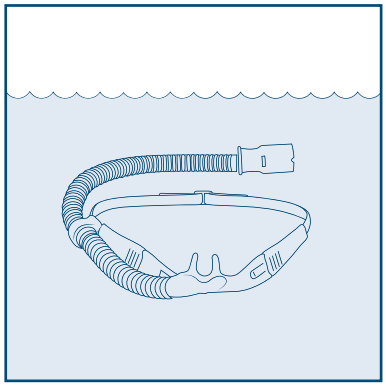
1. Drain any excess water from the breathing tube by lifting the end attached to the patient interface so the water runs into the water chamber.



2. Disconnect the patient interface from the heated breathing tube.

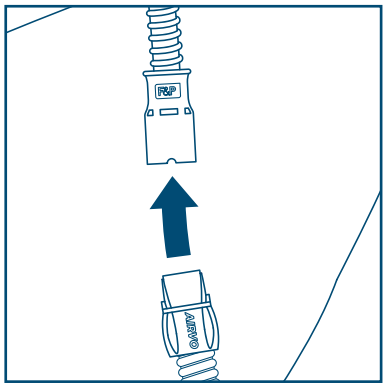
   Leave the heated breathing tube connected and the water chamber installed in the myAirvo 3.

   You do not need to empty the water chamber during drying mode.



3. If using an Optiflow+ interface, rinse your patient interface in drinkable quality tap water.

   If using the Optiflow Junior 2 Nasal Cannula, do not rinse or wash.



4. Reconnect the patient interface to the heated breathing tube while the myAirvo 3 is still in drying mode.

5. If using the Reusable chamber (MYAIRVOCHAMBER1), check the user manual that accompany your water chamber and follow the daily care instructions.

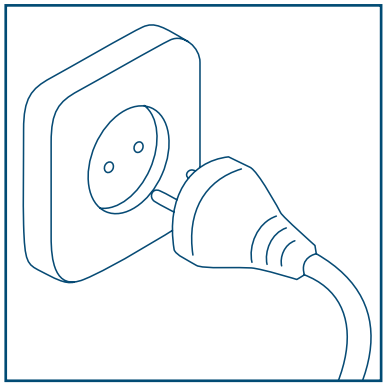
6. Follow the Weekly care instructions below once a week.

5.2 Weekly care

Follow these instructions each week to care for your myAirvo 3.

You will need:

1. a sink or bowl of warm water and mild dishwashing detergent,
2. a clean, lint-free cloth,
3. drinkable quality tap water for rinsing, and
4. any additional materials specified in other user manuals.

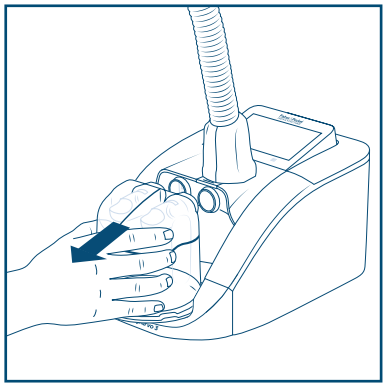


1. Wait until drying mode has finished and the myAirvo 3 has turned off.

   Unplug your myAirvo 3 from the power socket.

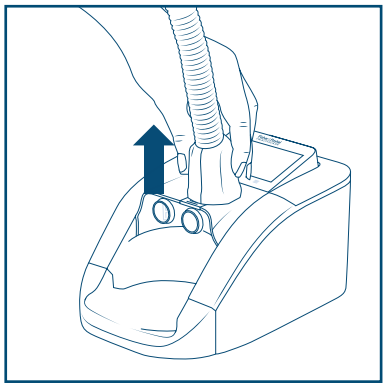
⚠ Caution

Electrical shock and flammability hazard: Before cleaning, always turn off the device and disconnect from any power source.



2. Remove the water chamber and AirSpiral heated breathing tube from your myAirvo 3. Detach your patient interface from the breathing tube.

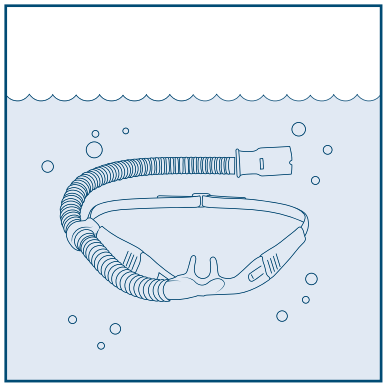
   Remove the water chamber by gripping the sides of the chamber and sliding it back out of your myAirvo 3.



3. Detach the AirSpiral breathing tube from your myAirvo 3 by squeezing the sides of the breathing tube connector and pulling up. Drain any excess water from the breathing tube.

⚠ Warning

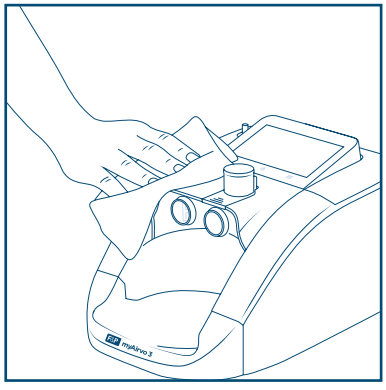
Turn off the myAirvo 3 and disconnect the device from the wall power supply before disconnecting the breathing tube and water chamber to reduce the risk of electric shock.



4. If using an Optiflow+ interface, wash your patient interface in the bowl of warm water and detergent.

   Rinse the interface in drinkable tap water.

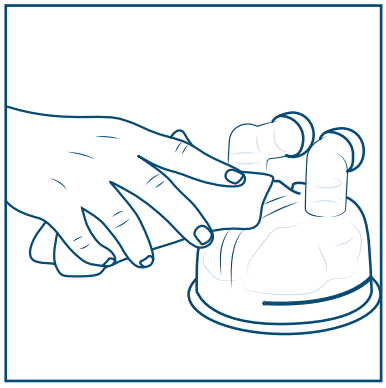
   If using the Optiflow Junior 2 Nasal Cannula, discard each week per user manual.



5. Dip a lint-free cloth in the warm water and mild detergent, wring it out so the cloth is damp but not wet. Then thoroughly wipe the outside of the myAirvo 3

⚠ Warning

Do not use harsh abrasives or solvents on the myAirvo 3, or any accessories. They may cause permanent damage.



6. If using the Auto-fill chamber (MYAIRVOKIT1 or 900PT290E), wipe the outside of the water chamber using the damp lint-free cloth. Do not wash this chamber.

7. If using the Reusable chamber (MYAIRVOCHAMBER1), check the user manual that accompany your water chamber and follow the weekly care instructions.

8. Reassemble your myAirvo 3 so that it is ready for your next therapy session. Follow the steps starting on page 8 to set up your myAirvo 3.

5.3 Timetable for changing accessories

The patient interface, breathing tube, water chamber and water bottle must be changed regularly to avoid the risk of infection. Replace each accessory within the period shown below, or immediately if they are damaged or discolored.

Dispose of used patient interfaces, breathing tubes and chambers in a waste bag and discard with normal household waste and/or according to local guidelines.

Description	Maximum Use	Part Number	
Optiflow Junior 2 patient interfaces	1 week, 1 patient	5-pack	OJR416HM, OJR418HM
Optiflow+ patient interfaces	1 month, 1 patient	2-pack	MYOPT9SMALL, MYOPT9MEDIUM, MYOPT9LARGE, MYOPT9TRACHE, MYOPT9MASK
		1-pack	OPT942E, OPT944E, OPT946E, OPT970E, OPT980E
All breathing tubes and autofill water chambers	2 months, 1 patient	MYAIRVOKIT1, MYAIRSPIRAL, 900PT560E, 900PT560	
Reusable water chamber	2 years, 1 patient	MYAIRVOCHAMBER1	
Water bottle	2 months (or sooner if discolored)	MYAIRVOBOTTLE1	
Air filter	3 months or 1000 hours use or when significantly discoloured (whichever comes first)	900PT933	
Optional battery	2 years or 300 discharge cycles (whichever comes first)	900PT957L	
Pulse oximetry USB connector, adapter and sensor cables	Refer to instructions for use supplied with device.	—	

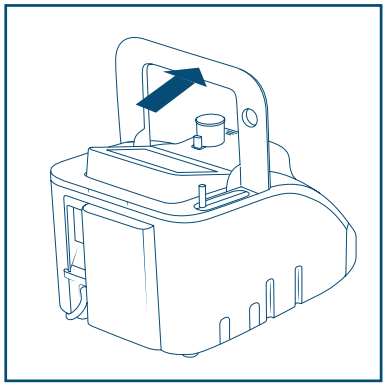
Some products may not be available in your country. Please contact your healthcare provider or Fisher & Paykel Healthcare representative.

⚠ Warnings

- All the patient interfaces, water chambers and breathing tubes shown in the table above are for single patient use only.
- Use only compatible accessories with the myAirvo 3.

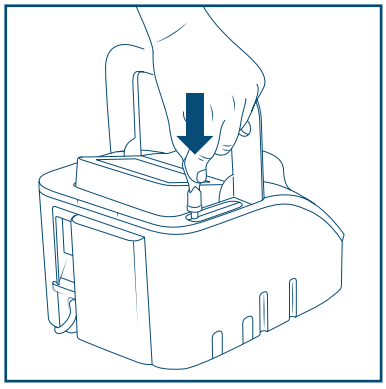
5.4 Air filter replacement

The air filter should be replaced after 1000 hours of operation, approximately every 3 months.

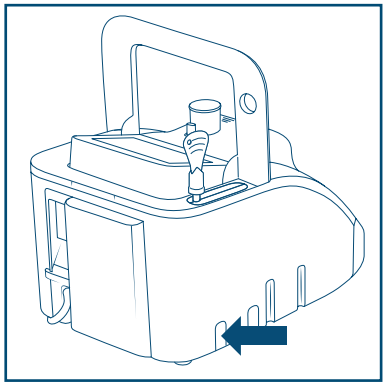


Begin by removing the old filter:

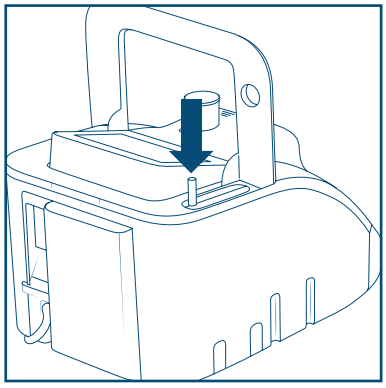
1. Raise the filter cover.



2. Push the filter grip firmly onto the low-pressure oxygen inlet port.



3. Hold down the air-filter release button.



4. Pull up on the filter grip.
5. Insert the new filter, pushing down on the top of the filter until it clicks into place. Then lower the filter cover.

5.5 Servicing

The myAirvo 3 does not require regular maintenance does not require regular maintenance and contains no user-serviceable parts. Refer to the myAirvo 3 Technical Manual for product acceptance checks, functional tests and replacement parts.

If a battery is fitted, the myAirvo 3 will display a Replace Battery notification on start-up when it is time to replace the battery. Return the device to your healthcare provider for servicing when the Replace Battery alarm is displayed. You may keep using your myAirvo 3 until the battery is replaced however the device may shut down immediately when it is unplugged from the wall power.

Contact your healthcare provider if a fault develops or you are concerned the myAirvo 3 is not operating properly.

⚠ Warning

Do not service or maintain the myAirvo 3 while it is being used by a patient.

5.6 Storage

Store the myAirvo 3 in a clean, dry and dust-free environment between use. To maintain the battery and prolong its life, fully recharge the battery monthly during long-term storage.

6. Sharing your therapy data

The information collected by your myAirvo 3 can be used by your healthcare provider to help manage your therapy. Therapy data can be sent from your myAirvo 3 using:

1. a built-in cellular modem, or
2. a myAirvo 3 InfoUSB.

Data exchange is protected using industry standard encryption to protect your privacy. Only your healthcare provider has access to your patient data.

6.1 Your personal data

Your myAirvo 3 is designed not to collect identifiable information about you. To function effectively, the myAirvo 3 will collect and store limited therapy data when you use the myAirvo 3 in order to deliver intended therapies. Your data will be securely stored on your myAirvo 3 unless you choose to share your therapy data with your healthcare provider. If you choose to share your therapy data, your data may be become identifiable using your device identifier combined with your other health records. You can ask your healthcare provider if they intend to collect your therapy data, and how that impacts your privacy, as part of their healthcare services to you. Data is retained on your device until you choose to delete it or until maximum data is stored, and data is automatically deleted. Refer to the Product Technical guide for more detail on how long categories of data may be stored.

Limited myAirvo 3 device information may be collected and shared with F&P regarding device performance, including device identifiers. This is to monitor for ongoing medical device effectiveness and improvement opportunities (e.g. firmware). Information is stored and used securely by F&P, separate from other product data F&P may process. For more information about your data using myAirvo 3, see the Product Technical Guide. For more about how F&P manage personal information, including your privacy rights to request access, correct or delete your information, please see our Global Privacy Statement on our website.

6.2 Cellular modem

If your myAirvo 3 includes a wireless modem and it is enabled, it will automatically upload your therapy data to your healthcare provider. The connection to your healthcare provider is made automatically using the cellular network.

Note

- The cellular modem is not available in all models.
- By default the cellular modem is not enabled. To enable the cellular modem, follow the instructions in Section 6.2.2.

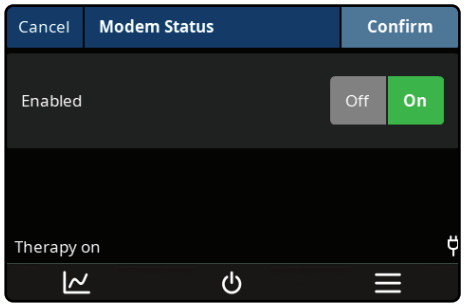
6.2.1 Data transfer

The myAirvo 3 may send the following information, using a secure communication protocol, to your healthcare provider:

- Therapy settings, e.g. target flow, etc.
- Physiological data (if applicable), e.g. SpO_2, etc.
- Responses to diary card questions (if diary cards are enabled).

6.2.2 Modem settings

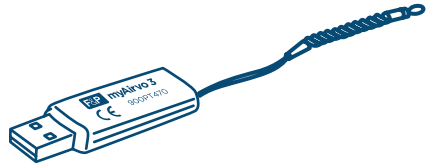
Your cellular modem should remain on so that the myAirvo 3 can be uploaded to your healthcare provider. To enable your modem:



1. Select Device info then Modem status from the myAirvo menu to open the modem settings page
2. Select On to turn the modem on so that myAirvo 3 can upload data to your healthcare provider or Off to prevent data uploads.
3. Tap Confirm to apply changes or Cancel to discard any changes.

6.3 myAirvo 3 InfoUSB

The myAirvo 3 InfoUSB automatically retrieves your therapy data when it is plugged into one of the USB ports on the back of your myAirvo 3. Your healthcare provider will provide you with an myAirvo 3 InfoUSB and tell you how they would like to transfer the data. You may need to:



- use your home computer, or
- take the myAirvo 3 InfoUSB to your healthcare provider.

Note

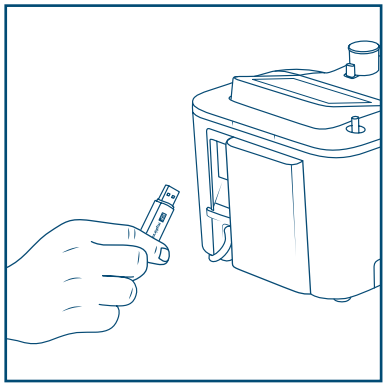
- Do not remove myAirvo 3 InfoUSB from the myAirvo 3 during data transfer.
- Use a computer with up-to-date antivirus software installed.
- Do not plug myAirvo 3 InfoUSB into any unsupported devices.
- Plugging incompatible USB flash drives into the myAirvo 3 USB port may cause data corruption, damage to the myAirvo 3 or the USB flash drive.
- Use the myAirvo 3 InfoUSB only with the InfoUSB application. Altering data on the myAirvo 3 InfoUSB with other programs may cause data corruption or damage the myAirvo 3.
- Do not store personal files on the myAirvo 3 InfoUSB.
- Do not reformat the myAirvo 3 InfoUSB.

Warning

To avoid choking, please keep the myAirvo 3 InfoUSB away from children.

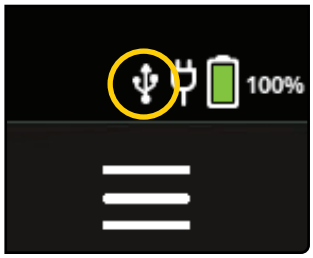
6.3.1 Loading data onto the myAirvo 3 InfoUSB

The myAirvo 3 InfoUSB has been designed to remain plugged in to your myAirvo 3 where data is periodically synchronized from the myAirvo 3 to the myAirvo 3 InfoUSB.



To use your myAirvo 3 InfoUSB:

1. Plug the myAirvo 3 InfoUSB into one of the ports on the back of your myAirvo 3.
2. Check that the myAirvo 3 InfoUSB has been detected by confirming the icon is displayed.



3. The icon will flash while data is being transferred. Do not remove the myAirvo 3 InfoUSB from the myAirvo 3 until the transfer is complete. The transfer may take up to 30 minutes.
4. Remove the myAirvo 3 InfoUSB from the myAirvo 3 when you are ready to upload data or when requested by your healthcare provider.

6.3.2 Uploading with the F&P InfoUSB application

The F&P InfoUSB application lets you send myAirvo 3 therapy data to your healthcare provider. You will need a Microsoft Windows computer running Windows 7 or later. You will also need a spare USB port for the myAirvo 3 InfoUSB and an Internet connection.

Installing the InfoUSB application and transferring data

1. **Insert into computer**
   When requested by your healthcare provider, remove the InfoUSB from your myAirvo 3 device and insert it into the USB port of a computer.
2. **Install F&P InfoUSB on your Microsoft Windows computer:**
   Click on the Start button and open This PC. Navigate to the drive called FPHCARE. Open this folder and double-click on the Setup file. Follow the on-screen instructions. Upon successful installation of the InfoUSB application, the message in Step 3 will appear.
3. **Data Transfer**
   Upon detection of an myAirvo 3 InfoUSB in your computer, a prompt will automatically appear. Enter your Date of Birth and select the Upload button. Ensure that your computer is connected to the Internet for successful data transfer to your healthcare provider.

4. Confirmation

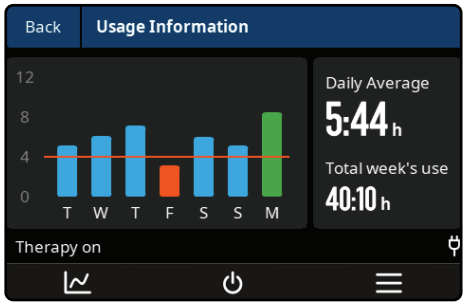
After the data has been sent successfully, the confirmation message above will appear. Remove the InfoUSB from your computer and place it back into your myAirvo 3 device. Your myAirvo 3 is now ready to be used for continued therapy.

Future Logging

The next time you need to transfer your data to your healthcare provider, simply insert the myAirvo 3 InfoUSB into your computer and the message in Step 3 will automatically appear.

7. Viewing your therapy data

The myAirvo 3 records the amount of time it has been used. Tap the Menu button and select Information from the menu to view:



- **Daily average:** the daily average number of hours that your myAirvo 3 has been used over the previous 7 days, not including the current day,
- **Total week time:** total time your myAirvo 3 has been used for the past 7 days, including today,

If enabled by your healthcare provider, the daily usage goal is indicated by the red horizontal line.

The vertical daily usage bar will change colour based on your activity:

- **Blue** - daily usage goal reached
- **Red** - daily usage goal not reached
- **Green** - current daily usage

Tap the Back button to close the Information page.

8. Travelling with myAirvo 3

The myAirvo 3 can be used in any country with a 110 – 240VAC wall power supply, with an appropriate travel adapter.

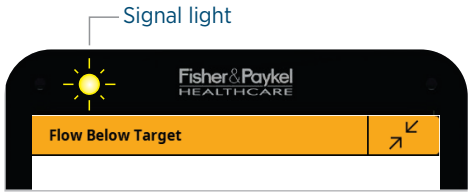
Refer to the Timetable for changing accessories on page 30 to make sure you have the accessories you'll need for the duration of your trip.

The myAirvo 3 is not certified for use on an aircraft. Ask your airline if you can take the myAirvo 3 with you as carry-on luggage when travelling by airplane.

⚠ Warning

Empty the water chamber before packing or transporting the myAirvo 3 to prevent water damage to the device, accessories or your luggage.

9. Alarms



The myAirvo 3 has visual and audible alarms to warn you about conditions that affect your therapy. All alarms require your attention.

The signal light flashes when any alarm is active. Its color indicates the highest priority alarm that is active.

9.1 Alarm priority

Alarms are grouped by urgency and severity into three priority levels: low, medium, high. When multiple alarms are active, the audible alert, signal light, title bar and message bar background color will signal the highest priority alarm.

Alarm priorities have been allocated for an operator's position within 1 meter of the device. The unit also uses an internal-priority ranking system. If multiple alarm conditions occur simultaneously, the unit will display the highest-priority alarm. Contact your healthcare provider if any problem persists.

- A response is needed for all alarms.
- A prompt response is required for all medium priority alarms.
- An immediate response is required for all high priority alarms.

Priority	Title bar, message bar, signal light color	Audible alert
Low	Solid yellow	High then low pitch beep
Medium	Flashing yellow	3 beeps every 9 seconds
High	Flashing red	3 beeps then 2 beeps every 5 seconds

⚠ Warning

Audible alarms may not be heard if the Sound volume is set lower than ambient noise. Missed alarms may lead to patient injury. Refer to the myAirvo 3 Technical Manual to review and set the alarm volume.

9.2 Audible information signals

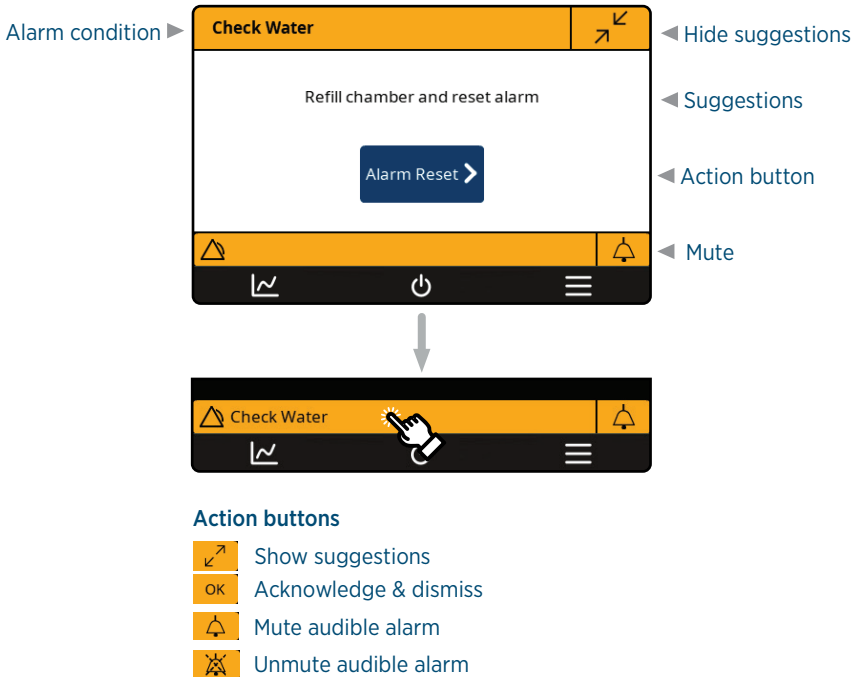
The informative sounds made by the myAirvo 3 are:

Melody	Meaning
Ascending sequence of 3 tones	The myAirvo 3 has powered on.
Ascending sequence of 5 tones	The breathing gas has reached the target settings; the myAirvo 3 is ready for use. This melody will also play when unlocking the device.
Single tone	A touch on the display was registered.
Single low then high tone.	All active alarms are resolved.

Descending sequence of 5 tones	Drying mode has started. This melody will also play when locking the device.
Descending sequence of 3 tones.	The myAirvo 3 has powered off.
Single high then 2 low tones	Power Out alarm

9.3 Viewing alarm details

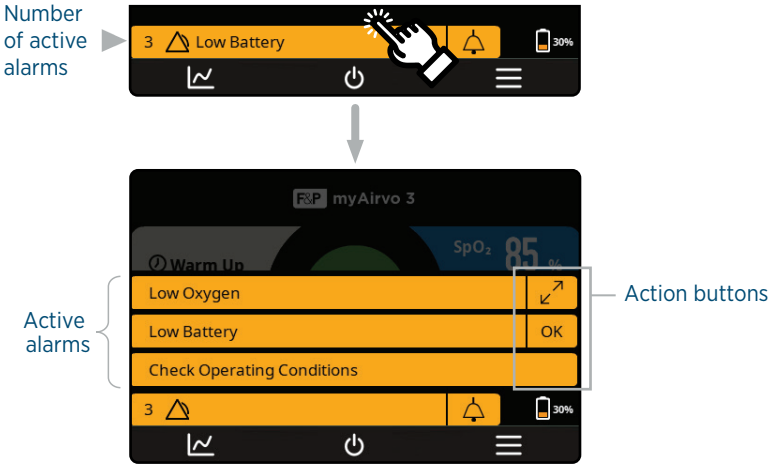
Alarms are displayed with suggested resolutions and action buttons for managing the alarm information:



- Tap Audio Pause to silence the alarm for 120 seconds. The Audio Pause button will change to when audible alarms are silenced.
- Use to page through multiple suggestions. Some alarms have only one suggested resolution.
- Tap Hide suggestions to collapse the alarm information to the message bar. Restore suggestions by tapping the alarm condition on the message bar.

The message bar displays the name of active alarms and an action button. When multiple alarms are active the message bar cycles through the active alarms. Tapping the message bar displays a list of active alarms. Alarms are presented in the order that they occurred, with the earliest alarm shown on the top of the stack. The color of the message bar always indicates the highest priority active alarm.

Alarm signals always indicate the highest priority active alarm condition (see Alarm priority above).



9.4 Device alarms

All the alarms you may encounter when using the myAirvo 3 are listed in the table below, along with common causes. The maximum delay between the alarm condition occurring and the myAirvo 3 displaying the alarm is also shown. Contact your healthcare provider if any problem persists.

If there is an interruption to the power supply and no battery is present or the battery is depleted, the myAirvo 3 will raise a power out alarm and if power is not restored it will turn off and not deliver any therapy to the patient. Once power is restored the myAirvo 3 can be restarted and will retain the previous therapy and alarm settings.

Alarm Condition	Priority	Delay	Meaning
Power Out	High.	<5 s	The device has lost all power.

Alarm Condition	Priority	Delay	Meaning
Fault [Error Code]	High	-	If background is highlighted in red, therapy has been stopped.
Fault [Error Code]	Med.	-	If background is highlighted in yellow, flow and oxygen will be delivered but humidity will be disabled.
Unsupported Battery	Med.	<5 s	The device is running off the battery and either an incorrect battery type is connected or communications with the battery could not be established. Device behaviour is the same as the 'Critically Low Battery' alarm.
Critically Low Battery	Med.	<5 s	The battery level is very low and is required to be plugged back into a mains power supply to maintain therapy, or the battery has a fault. Humidification is turned off to maintain operation of blower.
Low Battery	Low	<5 s	The battery level is low and is required to be plugged back into a mains power supply soon. Therapy continues as normal.
Battery Mode: Reduced Humidity	Low	<5 s	The power cable has been removed and the device is now running off the battery which also indicates humidification may be reduced.
Battery Charger Fault	Low	<30 s	The optional battery is fitted and the battery charger is not functioning correctly. The battery will not be charged.
Outlet Elbow Missing	High	<15 s	The myAirvo 3 removeable elbow has been removed from the device during therapy or possibly a fault occurred with the elbow that makes it appear as if the elbow is missing.
Check Tube	Med.	<5 s	There is no tube connected to the myAirvo 3 during therapy or during drying mode that makes it appear as if the tube is missing.
Wrong Tube	Med.	<5 s	An incorrect breathing tube is currently connected for the selected therapy that makes it appear as if it is the wrong tube.
Outlet Elbow Fault	Med.	<5 s	The outlet elbow is not functioning correctly and humidity is disabled.
Outlet Elbow Too Warm	Med.	<5 s	At startup the device has detected that the outlet elbow is too warm and will not start therapy until elbow has cooled down.
Chamber Leak Detected	Med.	<30 s	The water chamber has been removed. This alarm only works for flow rates greater than 25 L min^{-1}.
Leak Detected	Med.	<30 s	An increase in flow was detected in the breathing circuit. This may be indicative of a disconnected junior patient interface or removal of the water chamber. By resetting the alarm you are acknowledging that the heated breathing tube and interface set up is correct for this session
Blockage Detected	Med.	<10 s	The device is unable to reach the target flow due to a significant blockage in the air-path. Check the tube for occlusions and ensure that the target flow rate is within the rated range of the patient interface.
Flow Below Target	Med.	<2 min	User has set a target flow higher than appropriate for the connected patient interface or the tube has a partial blockage.

Flow Above Target	Low	<2 min	User has set a target flow lower than appropriate for the connected patient interface, or there is a significant leak in the breathing circuit.
Target Flow Too High	Med.	< 5s	It is likely that the device flow rate is set higher than is appropriate for the interface
Check Water	Med.	<30 min	The water chamber has run out of water.
Humidity Below Target	Low	<30 min	The humidity is not reaching its target value. Check water chamber for damage. Consider reducing the target humidity or flow rate.
Check Operating Conditions	Low	<1 min	The ambient temperature is outside the intended range.
Low Oxygen	Med.	<30 s	Supplemental oxygen has been prescribed at an FiO_2 at 25% or higher. FiO_2 has not exceeded 25% so check if oxygen supply has been connected.
Unexpected O_2	Med.	<2 min	Oxygen is being supplied to the myAirvo 3 while in disinfection mode for an extended period of time.
High FiO_2	Low	<20 s	The measured oxygen fraction (LPO) is above the limit set by the healthcare provider. [Range: 30-95% or Off, Default: Off]

9.5 Checking the alarm system

The alarm system functionality can be checked whenever the myAirvo 3 is turned on.

Check the alarm system is functioning correctly by disconnecting the heated breathing tube from the myAirvo 3. You should:

1. See the “Tube Missing” visual alarm on the myAirvo 3 screen, and
2. See the Signal light flash yellow, and
3. Hear the myAirvo 3 internal audible alarm.

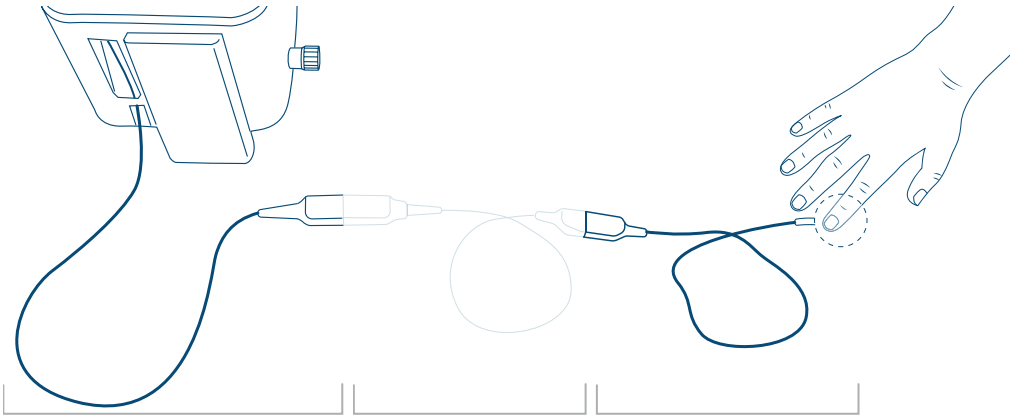
⚠ Warning

Do not use the myAirvo 3 if either visual alarm or the audible alarm is absent. Instead, contact your healthcare provider.

10. Pulse oximetry

The myAirvo 3 can monitor and record your peripheral blood-oxygen saturation and pulse rate using a pulse oximeter to help your healthcare provider evaluate and adjust your therapy. No SpO_2 or pulse rate alarms are included in the myAirvo 3.

Not all patients require pulse oximetry measurements. Your healthcare provider will provide the equipment needed if your physician has prescribed pulse oximetry. Usually this includes a sensor cable and a USB connector cable, like those shown below.



Pulse oximetry USB connector cable

Pulse oximetry extension cable or adaptor cable (both optional)

Pulse oximetry sensor cable (reusable or disposable)

⚠ Warnings

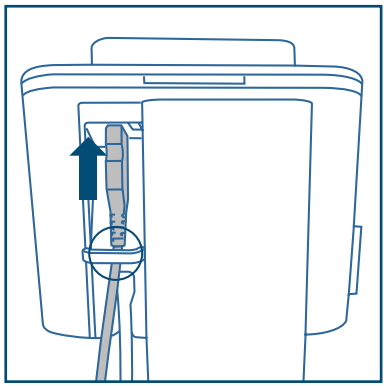
- Do not use single-patient use pulse oximeter sensors on more than one patient to avoid cross-infection and/or contamination.
- The myAirvo 3 is not intended for use as a patient vital signs monitor. A separate and dedicated monitoring device must be used if such monitoring is required.
- Follow the user instructions supplied with multi-use pulse oximeter sensors, adaptors and USB connector cables to clean and disinfect these devices between patients to avoid cross-infection and/or contamination.
- Use only compatible oximetry sensors and accessories for SpO_2 and pulse rate measurements. Verify compatibility before use to avoid incorrect operation of your myAirvo 3, inaccurate measurements and/or patient injury.

Nonin:

- Use only with Nonin-branded PureLight® pulse oximeter sensors. These sensors are manufactured to meet the accuracy specifications for Nonin pulse oximeters. Using other manufacturers' sensors can result in inaccurate pulse oximeter performance.
- Do not use the pulse oximeter sensor, cable or adapter if it appears, or is suspected to be, damaged.

10.1 Set up the pulse oximeter

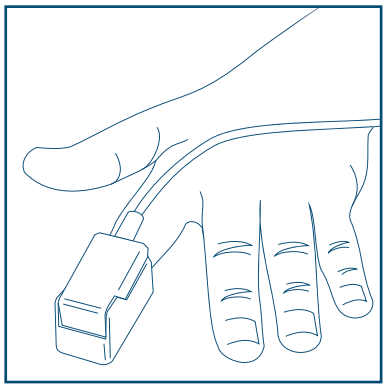
Read the instructions supplied with the pulse oximetry accessories for additional safety information (including any potential risks or adverse effects from sensor materials), measurement site selection, detailed sensor setup, maximum sensor application time at a single site before repositioning, cable lifetime, sensor lifetime, factors that can interfere with measurement, troubleshooting and maintenance instructions.



Plug the USB connector cable into either of the USB ports on the back of the myAirvo 3. Clip the pulse-oximeter's cable into the cable tidy so that it is not pulled out accidentally.

You can connect the pulse-oximeter when the myAirvo 3 is on or off.

Carefully select a pulse oximetry sensor based on the patients age and weight as well as the intended sensor application site. More information can be found in the instructions supplied with each sensor.



Following the instructions provided with the sensor, attach the sensor to the patient. Generally, choose a site that is well perfused and least restricts movement. The ring finger of the non-dominant hand is preferred for adults.

Connect the sensor cable to the USB connector cable.

Bright light sources including direct sunlight, lamps, fluorescent lights and infrared heating lamps can interfere with pulse oximeter measurements. You may need to cover the sensor with an opaque material, such as blanket or cushion to prevent interference.

⚠ Warnings

- Tissue damage may be caused by incorrect application of the sensor, e.g. by wrapping the sensor too tightly. Follow the instructions supplied with the sensor for correct application.
- **Nonin:**
  The Nonin LP Xpod USB connector cable is designed to determine the percentage of arterial oxygen saturation of functional haemoglobin. Factors that may degrade pulse oximeter performance or affect the accuracy of the measurement including the following:
  - Excessive ambient light
  - Excessive motion
  - Electrosurgical interference
  - Blood flow restrictors (arterial catheters, blood pressure cuffs, infusion lines, etc.)
  - Moisture in the sensor
  - Improperly applied sensor
  - Incorrect sensor type
  - Poor pulse quality
  - Venous pulsations
  - Anemia or low haemoglobin concentrations
  - Cardiogreen or other intravascular dyes

- Carboxyhemoglobin
- Methemoglobin
- Dysfunctional haemoglobin
- Artificial nails or fingernail polish
- A sensor not at heart level

- Loss of monitoring can result if any objects hinder the pulse measurement. Ensure that no blood flow restrictors (e.g., blood pressure cuff) hinder pulse measurements.
- The oximeter sensor may not work on cold extremities due to reduced circulation. Warm or rub the finger to increase circulation, or reposition the sensor.
- Inaccurate readings can result due to residue (e.g. dried blood) in light path or degradation of optical characteristics of sensor components. Refer to cleaning instructions supplied with the pulse oximetry accessories.
- False high readings can result if SpO_2 is low due to dysfunctional hemoglobin (e.g. carboxyhemoglobin or methemoglobin).
- Read the instructions supplied with the pulse oximetry accessories for additional safety information (including any potential risks or adverse effects from sensor materials), measurement site selection, detailed sensor setup, maximum sensor application time at a single site before repositioning, cable lifetime, sensor lifetime, factors that can interfere with measurement, troubleshooting and maintenance instructions.

⚠ Cautions

- Inspect the measurement site as directed in the sensor's user manual to ensure skin integrity and correct positioning and adhesion of the sensor.
- A functional tester cannot be used to assess the accuracy of a pulse oximeter or sensor.

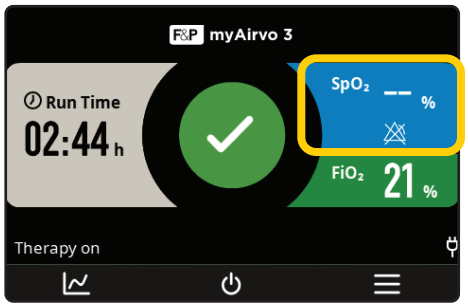
Nonin:

- Inspect the sensor application site at least every 6 to 8 hours to ensure correct sensor alignment and skin integrity. Patient sensitivity may vary due to medical status or skin condition. Discontinue use of adhesive tape sensors if the patient exhibits an allergic reaction to the adhesive material.
- The accuracy of the SpO_2 measurement may be affected if the total sensor cable length (including extension cables) is greater than 3 meters (9.8 feet)

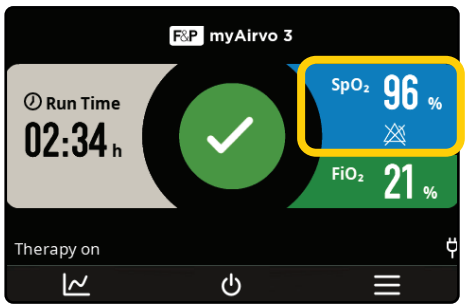
10.2 Using the pulse oximeter

If enabled by your healthcare provider, myAirvo 3 Home Screen will display the pulse oximeter panel when a compatible sensor is attached.

The panel shows SpO_2 measurements and indicates if the measurement is working properly:

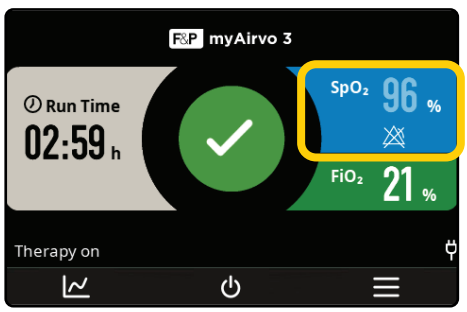


The pulse oximeter is ready and waiting for you to attach the sensor to your body.



Measurements from the pulse-oximeter are received correctly.

The SpO_2 measurement is updated every second.



SpO_2 measurements are being received but signal quality is low. Check that the sensor is properly attached to your body and avoid a lot of movement. Try moving the sensor to a new location if the problem continues.

SpO_2 monitoring will restart automatically whenever a reliable signal is detected, including after power is restored following interruption to the power supply.

⚠ Warning

Follow the pulse-oximeter sensor user manual to periodically reposition the sensor to help prevent ischemia.

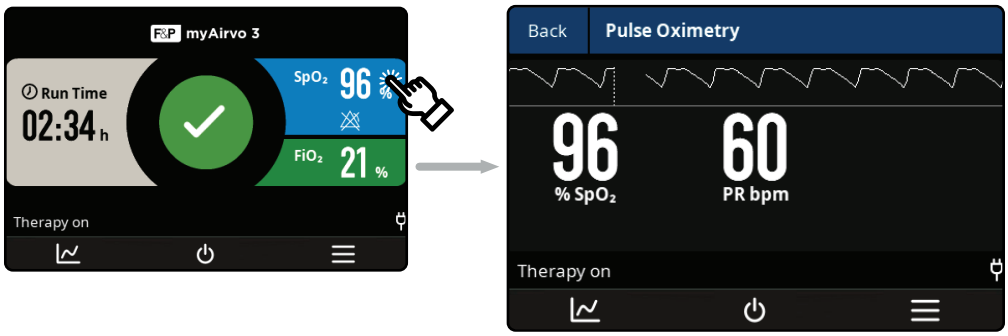
10.3 After use

Remove the pulse oximeter sensor from your body when your therapy session is finished. You may leave the sensor connected to the USB connector cable between use.

Follow the user manual supplied with the pulse oximeter sensor and USB connector cable to care for and/or dispose of these devices.

10.4 Troubleshooting

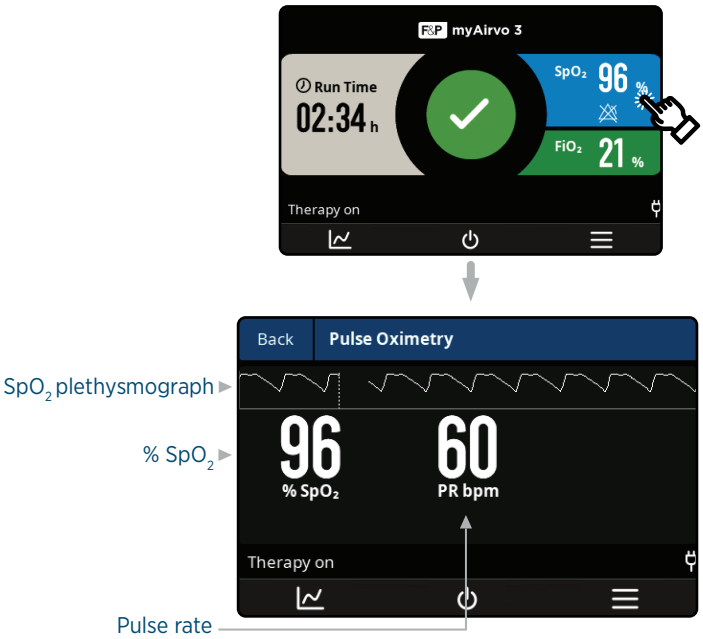
Tap the SpO_2 measurement to open the Pulse Oximetry screen and view the pulse oximeter status. Status messages you may encounter and troubleshooting steps are shown below. Contact your healthcare provider if the problem persists.



Message	Cause/remedy
Low Signal Quality	Indicates poor signal quality and low confidence in the pulse oximeter measurements displayed. Measurements are drawn in gray on the pulse oximeter tile when signal quality is low. Low Signal Quality may be caused by excess motion, low perfusion, a long/blocked light path, or a damaged or incorrectly fitted sensor. • Follow the sensor's user instructions to check it is the correct type and that it has been correctly applied to the patient. • Reduce or eliminate motion at the monitoring site. • Consider an adhesive sensor. • Check that the sensor's emitter and detector are properly aligned, particularly when using an adhesive sensor. • Consider a different measurement site. • Check that blood flow to the measurement site is not restricted. • See the pulse oximetry section for physiological conditions that may affect pulse oximetry measurement accuracy and consider an alternative method if indicated. • Remove excessive fingernail polish or artificial nails. • Replace the sensor.
Patient Missing	The pulse oximeter cannot detect a patient. Check that the sensor is properly fitted by following the user manual supplied with the sensor. SpO_2 will display "--".
Sensor Disconnected	A pulse oximetry sensor cable was not detected or is inoperable. Check that the sensor cable is properly connected to the USB connector cable or replace the sensor cable if necessary. SpO_2 will display "--".
Communication Failure	Unable to communicate with the pulse oximeter. Check that the USB connector cable, sensor adapter cable and sensor cables are all properly connected. Replace the sensor cable, adapter cable then USB connector cable in turn if the problem persists. SpO_2 will display "--".

10.5 Description of measurements

Measurements from the pulse oximeter are displayed on the myAirvo 3 home screen and the Pulse Oximetry screen when a compatible device is connected and enabled by your healthcare provider. Tap the SpO_2 measurement to open the Pulse Oximetry screen.



SpO_2: The myAirvo 3 is calibrated to display functional oxygen saturation (SpO_2) as a percentage of oxygenated hemoglobin.

Pulse rate (PR) measurements are based on optical detection of pulsatile peripheral blood flow by the pulse oximeter sensor. Pulse rate is displayed in beats per minute (bpm). Pulse rate is included in the data sent to your healthcare provider but is not displayed on the myAirvo home screen.

Plethysmograph: The plethysmograph (or photo-plethysmograph) provides a non-normalized (Nonin) indication of the change in blood volume measured by the pulse oximeter sensor.

Signal Quality

Nonin:

Nonin pulse oximetry equipment indicate signal quality based on the perfusion of the patient. There are three states: green, yellow, and red corresponding to high, low/marginal, and low/poor signal quality respectively. During these periods of low signal quality (signal inadequacy) pulse oximetry values displayed may be incorrect. The myAirvo 3 indicates low signal quality by greying out the SpO_2 and Pulse rate numbers.

11. Advanced settings

Your healthcare provider will set up your myAirvo 3 with the best settings for your therapy. They may suggest changing therapy settings as your condition changes. This chapter will help you adjust these advanced settings when directed by your healthcare provider.

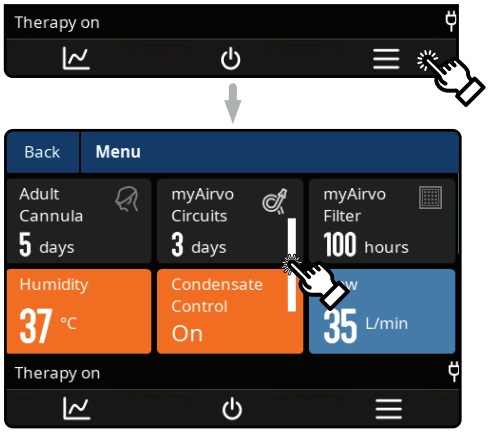
⚠ Warning

Always discuss any changes to your therapy with your healthcare provider.

ⓘ Note

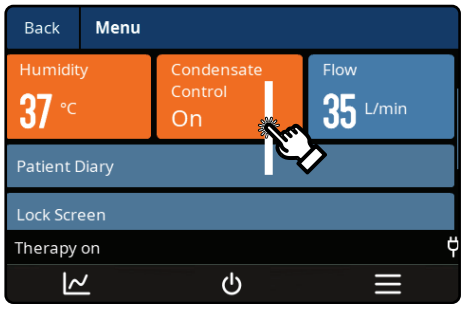
The myAirvo 3 will remember the changes you make to advanced settings. You won't need to change the settings every time you use the device.

11.1 Using the touchscreen



View and adjust therapy settings by:

- tapping ☰ to open the myAirvo menu, where you can view current settings,

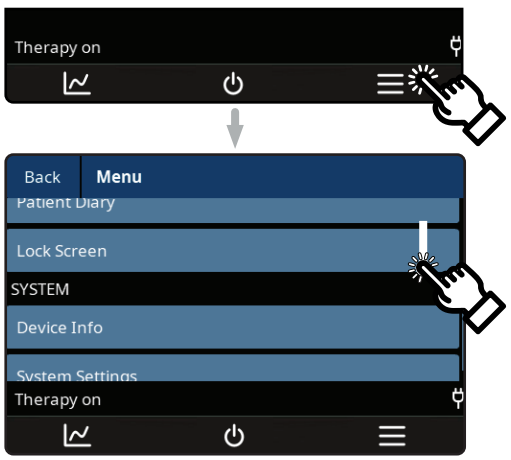


- swiping up/down to scroll through the settings and information available, and

- tapping tiles and buttons on the screen to make selections and change values.

11.2 Touch lock

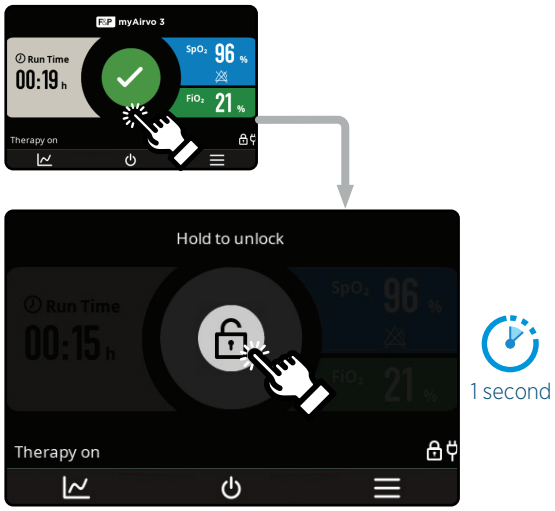
The myAirvo 3 includes a touch lock which can prevent accidental changes to your therapy (e.g. by children or pets). When the display is locked, the screen will ignore all touches preventing any changes.



To enable the touch lock:

1. Tap ☰ to open the menu.
2. Touch the screen and drag up until Touch Lock scrolls into view.

3. Tap Touch Lock to lock the screen.
   🔒 is shown in the Message bar when the screen is locked.



To disable the touch lock:

1. Tap the screen to see the unlock button.
2. Hold down the unlock button for one second.

Note

The touch lock may be disabled by your healthcare provider.

11.3 Therapy settings

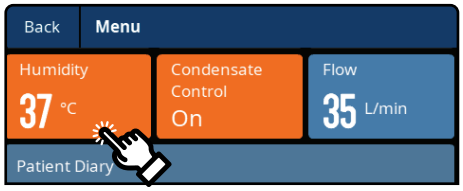
Your healthcare provider may ask you to change one or more settings to adjust your therapy. Do not change any settings before discussion with your healthcare provider.

Setting	Range	Description
Target temperature	31 – 37 °C (87.8 – 98.6 °F)	The target temperature of the breathing gas.
Condensation Control	Off, On	Condensation Control allows small adjustments to the humidity of the breathing gases.
Target flow	2 – 60 L/min	The target flow setting controls how much air is supplied through the breathing tube.
Expiratory relief	Off, 10%, 20%, 30%	Expiratory relief reduces the air flow each time the myAirvo 3 detects you breathing out. The air flow automatically returns to normal each time you breath in.

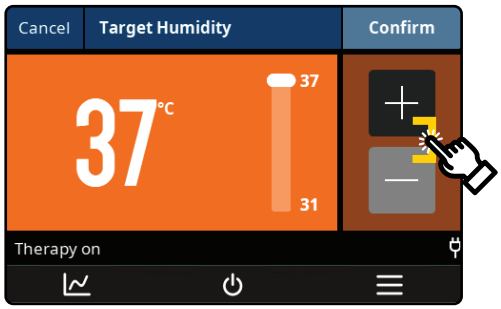
Note

Your healthcare provider may limit the range of therapy settings available.

11.3.1 Adjusting the target humidity



1. Tap ☰ to open the myAirvo menu.
2. Tap the Temperature tile to open the setting page.



3. Use the + / - buttons to change the target humidity to the desired value.

⚠ Warning

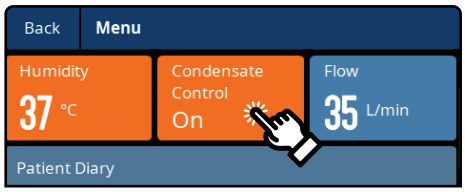
If you have bypassed upper airways (i.e. a tracheostomy), do not set Target Humidity below 37 °C.

ⓘ Note

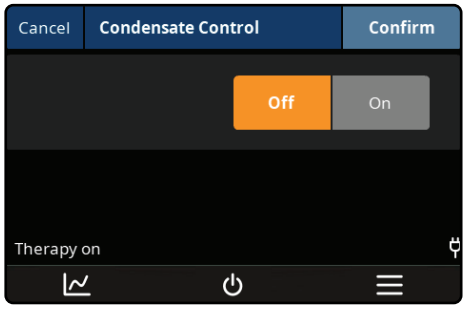
Patient's using face masks may find high temperatures uncomfortable. Consider a target humidity of 31 °C (87.8 °F).

4. Tap the Confirm button to apply the new target temperature, or the Cancel button to leave target temperature unchanged.

11.3.2 Using Condensate Control



1. Tap ☰ to open the myAirvo menu.
2. Tap the Condensate Control tile to open the setting page.



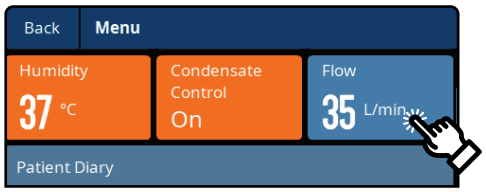
3. To enable or disable Condensate Control, select:
   - Off: normal humidity
   - On: reduce the delivered humidity while maintaining the same delivered gas temperature.

4. Tap the Confirm button to apply the new Condensate Control setting, or the Cancel button to leave Condensate Control unchanged.

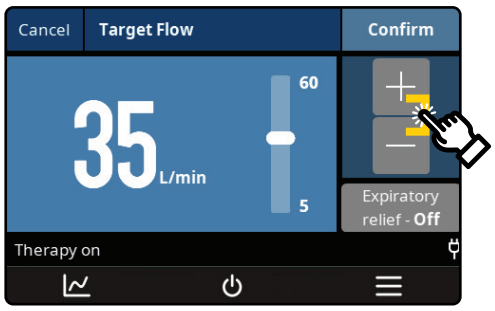
11.3.3 Night mode

myAirvo 3 contains an automatic "Night mode" which is triggered by low ambient light. During Night mode, all non-alarm sounds (e.g. start-up/ shutdown sounds, user interaction clicks, drying complete, etc.) are silenced and the screen is dimmed.

11.3.4 Adjusting the flow rate



1. Tap ☰ to open the myAirvo menu.
2. Tap the Flow tile to open the settings page.



3. Use the + / - buttons to increase/decrease the target flow until the required value is displayed.

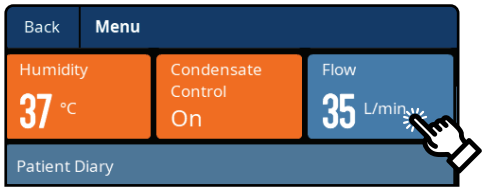
4. Tap the Confirm button to apply the new target flow, or the Cancel button to leave target flow unchanged.

⚠ Warning

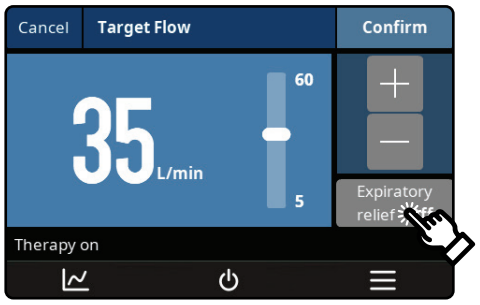
Changing the flow rate can affect the concentration of oxygen delivered. Do not change prescribed settings without consulting your physician.

11.3.5 Using expiratory relief

If the expiratory relief feature is enabled by your healthcare provider, follow the instructions below to adjust the desired expiratory relief level.



1. Tap ☰ to open the myAirvo menu.
2. Tap the Flow tile to open the settings page.



3. Tap the Expiratory Relief button to open the expiratory relief settings window.

4. Select the level of expiratory relief desired. The flow rate is automatically reduced by the level selected as you exhale. When Off is selected, the flow rate doesn't change as you breath.
   10% gives the smallest change while 30% gives the greatest change to flow rate.

5. Tap the Confirm button to apply the new expiratory relief setting, or the Cancel button to leave expiratory relief unchanged.

12. Parts and accessories

Contact your healthcare provider to order consumables and accessories.

⚠ Warning

Use only genuine Fisher & Paykel Healthcare parts with the myAirvo 3 to avoid possible injury and damage to the device.

12.1 Patient consumables

The patient interfaces and accessories shown in the table below have been tested for use with the myAirvo 3. Take care to follow the user manual supplied with all patient interfaces and accessories.

All patient interfaces are Type BF applied parts.

Description	Part Number	Size	Pack Size
Optiflow+ nasal cannula	OPT942E OPT944E OPT946E	Small Medium Large	1 1 1
Optiflow+ nasal cannula 2-pack	MYOPT9SMALL MYOPT9MEDIUM MYOPT9LARGE	Small Medium Large	2 2 2
Optiflow Jr 2 nasal cannula1	OJR416HM (WJR112) OJR418HM (WJR112)	L XL	5 5
Tracheostomy interface	OPT970E	15 mm tracheostomy direct connection	1
Tracheostomy interface 2-pack	MYOPT9TRACHE	15 mm tracheostomy direct connection	2
Mask interface adapter[2] (vented masks only)	OPT980E	22 mm mask interface adapter	1
Mask interface adapter[2] (vented masks only) 2-pack	MYOPT9MASK	22 mm mask interface adapter	2
Tube and chamber kits **AirSpiral Tube and Auto-fill Chamber**	MYAIRVOKIT1	n/a	1
Water bottle[3]	MYAIRVOBOTTLE1	n/a	1
Reusable water chamber[3]	MYAIRVOCHAMBER1	n/a	1
Tube kits[3]			
AirSpiral tube kit	MYAIRSPIRAL	n/a	1
AirSpiral tube kit	900PT560E	n/a	1
AirSpiral tube kit	900PT560	n/a	10

Notes:

1. Part numbers for replacement wiggle pads are shown in parenthesis.
2. The mask adapter interface is designed for vented masks only. Do not use sealed masks with the myAirvo 3.
3. Maximum water chamber liquid volume:
   Reusable chamber 560 mL
   Auto-fill chamber 100 mL
   Water bottle 800 mL

12.2 Replacement parts and accessories

Description	Part Number
Air filter	900PT933
Battery‡	900PT957L
myAirvo 3 home stand	MYAIRVOSTAND1
Disinfection kit†	900PT600
InfoUSB	900PT470
myAirvo 3 is compatible with F&P InfoSmart	F&P InfoSmart

† A Disinfection kit is required when using the built-in validated thermal disinfection to clean and disinfect the outlet elbow between patients.

‡ See myAirvo 3 Technical Manual for instructions to change the battery.

12.3 Pulse oximeter sensors and accessories

Pulse oximeter sensors, cables and adapters shown below have been validated to be compatible with myAirvo 3. Carefully read the user manual, including all warnings and cautions, supplied with each device before use. Not all devices are available in all markets.

Nonin:

Part numbers of compatible Nonin pulse oximetry USB connector cables

Description	Nonin part number (cable length)
3012LP Xpod USB connector	6703-001 (1m, 3ft)

Part numbers of compatible Nonin pulse oximeter sensor cables

Sensor description	Nonin part number (cable length) (other information)
8000SS reusable soft sensors, small	6837-000 (1m, 3ft), 6837-300 (3m, 10ft)
8000SM reusable soft sensors, medium	6836-000 (1m, 3ft), 6836-300 (3m, 10ft)
8000SL reusable soft sensors, large	6835-000 (1m, 3ft), 6835-300 (3m, 10ft)
8000AA adult reusable finger clip sensors	3278-001 (1m, 3ft), 3278-006 (2m, 6ft), 3278-003 (3m, 10ft)
8000AP pediatric reusable finger clip sensors	2360-000 (1m, 3ft), 2360-003 (3m, 10ft)
8000Q2 ear clip sensor	6455-000 (1m, 3ft)
8000R reflectance sensor	0487-000 (1m, 3ft)
8000J adult semi-reusable FlexSensor	0741-000 (1m, 3ft), 2353-002 (3m, 10ft) (includes x25 8000JFW FlexiWraps®)
8008J infant semi-reusable FlexSensor	0740-000 (1m, 3ft) (includes x25 8008JFW FlexiWraps)
6000CA adult cloth disposable sensors	7426-001 (1m, 3ft) (24 pack)
6000CP pediatric cloth disposable sensors	7426-002 (1m, 3ft) (24 pack)
6000CI infant cloth disposable sensors	7426-003 (1m, 3ft) (24 pack)
7000A adult Flexi-Form® III disposable sensors	7427-001 (1m, 3ft) (24 pack)
7000P pediatric Flexi-Form III disposable sensors	7427-002 (1m, 3ft) (24 pack)

7000I infant Flexi-Form III disposable sensors	7427-003 (1m, 3ft) (24 pack)
8000JFW adult FlexiWraps	4097-000, (25 pack), for use with 8000J
8008JFW infant FlexiWraps	4774-000, (25 pack), for use with 8008J
8000H reflectance sensor holder pack	0616-000, (10 caps & 20 adhesive stickers) for use with 8000R
Sensor Clip for LP Xpod External Pulse Oximeter	7504-001

13. Specifications

General

Dimensions	180 mm x 295 mm x 170 mm (7.0" x 11.7" x 6.6")
Weight device only	4.45 kg (9.8 lb.)
Supply voltage/current	100 – 115 VAC, 2.4 A (2.6 A max[1]) 220 – 240 VAC, 1.1 A (1.3 A max[1])
Supply frequency	50 – 60 Hz
USB port sourcing (1 and 2)	5 V, 0.35 A (maximum each port)
Sound level	< 50 dBA @ 1 m
Auditory alarm	
Sound pressure level	40 dBA @ 1m
Mute duration	120 s duration
Ingress protection	IP22[2]
Expected service life	5 years[3]

Operating conditions

Ambient temperature	18 – 28 °C (64 – 82 °F)
Humidity	10 – 95% relative humidity (non-condensing)
Ambient pressure	700 - 1060 hPa
Altitude	
Nominal	0 - 3000 m (9000 feet)
Mode of operation	Continuous operation
Maximum delivered dew-point temperature of respiratory gas	43 °C (109 °F)
Maximum surface temperature of applied parts[4]	44 °C (111 °F)
Maximum water chamber liquid volume	
Reusable chamber	560 mL
Auto-fill chamber	100mL
Water bottle	800mL
Startup time	less than 10 seconds

Storage and transport conditions

Ambient temperature[5,6]	-10 – 50 °C (14 – 122 °F)
Humidity (non-condensing)	10 – 95% relative humidity

Operating, transporting or storing the device outside the permissible environment conditions specified may result in degraded performance of the pulse oximeter such as inaccuracy of SpO_2 or Pulse rate readings and/or patient injury

Optional battery (900PT957L)

Chemistry	Lithium Ion (Li-Ion)
Voltage	14.4 VDC
Capacity	99.4 W
Power output	80 W
Battery life	300 charge/discharge cycles 1 year (whichever comes first)
Recharge time	6 hours (max.)
Storage life	1 year
Operating time[7]	
Typical new	60 minutes
Minimum[8]	30 minutes

Communications

Cellular modem[9]	
UMTS 3G:	BI, BV, BIII, Max. power 24 dBm +1 / -3
LTE 4G	B3, B5, B8, B28 Max. power 23 dBm ± 2
Bluetooth technology	2.402 – 2.480 GHz Max. Power +20 dBm
WiFi	2.412 – 2.48 GHz/4.9 – 5.975 GHz

Supplementary oxygen

Maximum flow rate	15 L/min oxygen (STPD[10])
Oxygen analyzer	
Startup time	< 30 s
Delivery response	< 60 s
Range	21 - 100% O_2
Accuracy[11,12]	lesser of ± 4% or ± (2.5% + 2.5% × O_2 concentration)

Optiflow high flow therapy[13]

Target temperature range	31 – 37 °C
Target flow range[14]	2 - 60 L/min
Maximum limited pressure	60 cmH_2O
Humidity[4]	
Wall-power	> 33 mg/L @ 37 °C target temperature > 12 mg/L @ 34 °C target temperature > 12 mg/L @ 31 °C target temperature
Warm up time[15] (auto-fill chamber)	
23 ± 2 °C to 31 °C (73 °F to 88 °F)	20 minutes @ 60 L/min flow rate
Warm up time[15] (reusable chamber)	
23 ± 2 °C to 37 °C (73 °F to 98.6 °F)	40 minutes @ 60 L/min flow rate

Notes:
1. Inrush current may reach 50 A.
2. The device is protected against harmful effects of dripping water when tilted by up to 15° and/or incursion of fingers or similar sized objects.
3. Assumes typical usage pattern. Actual service life may vary.

4. In accordance with ISO 80601-2-74. Tested to an accuracy of ± 1 °C or ± 1 mg/L as appropriate.
5. Storage at temperatures above 40 °C (104 °F) for prolonged periods will accelerate battery degradation.
6. The device may require up to 24 hours to equilibrate to operating temperature before it is ready for use.
7. Length of time flow and oxygen will be delivered.
8. Minimum operating time applies to a fully charged battery at 25 °C that has experienced 300 charge/discharge cycles followed by 1 year of storage.
9. Country and carrier dependent.
10. Flow rate is expressed in STPD (standard temperature and pressure, dry) as per ISO 80601-2-74.
11. Excluding rounding to 21% and 100%, as appropriate.
12. Oxygen measurement is automatically compensated for changes in barometric pressure.
13. Values are expressed in BTPS (body temperature, pressure, saturated) unless otherwise stated.
14. Maximum achievable flow rate depends on the patient interface selected.
15. Applies when the device is connected to a wall power supply for warm up.

Pulse oximetry

Specifications are tabulated for the myAirvo 3 and all compatible sensors unless otherwise stated.

Nonin:

Data Update Period	<30 sec	
Measurement Wavelengths and Output Power*	Red: 660 nanometers @ 0.8 mW max. avg. Infrared: 910 nanometers @ 1.2 mW max avg. (using Nonin Purelight® Sensor)	
SpO_2 Accuracy (A_{rms})**	70 to 100%	
No Motion	**Adults/Pediatrics*** **	**Neonates**
Reusable		
8000AX Series:	± 2 digits	N/A
800XJ Series:	± 3 digits	N/A
8000SX Series:	± 2 digits	N/A
8000R:	± 3 digits	N/A
8000Q2:	± 3 digits	N/A
Disposable		
6000CX Series:	± 2 digits	± 3 digits
7000X Series:	± 2 digits	± 3 digits
Motion		
Reusable		
8000AX Series:	± 2 digits	N/A
800XJ Series:	± 3 digits	N/A
8000SX Series:	± 3 digits	N/A
Low Perfusion**	± 2 digits	± 3 digits
Pulse Rate Accuracy	**Adults/Pediatrics*** **	**Neonates**
No Motion (18 - 300 BPM)		
Reusable		
8000AX Series:	± 3 digits	N/A
800XJ Series:	± 3 digits	N/A
8000SX Series:	± 3 digits	N/A
8000R:	± 3 digits	N/A
8000Q2:	± 3 digits	N/A
Disposable		
6000CX Series:	± 3 digits	± 3 digits
7000X Series:	± 3 digits	± 3 digits
Motion (40 - 240 BPM)		
Reusable		
8000AX Series:	± 5 digits	N/A
800XJ Series:	± 5 digits	N/A
8000SX Series:	± 5 digits	N/A
Low perfusion (40 - 240 BPM)**	± 3 digits	± 3 digits

* This information is especially useful for clinicians performing photodynamic therapy.

** ± 1 A_{rms} represents approximately 68% of measurements.

*** Includes Infant patients

**** Does not apply to those sensors listed as N/A under the neonate column, 8000R and 8000Q2

Notes:

- SpO_2 accuracy testing is conducted during induced hypoxia studies on healthy, non-smoking, light-to-dark-skinned subjects during motion and no-motion conditions in an independent research laboratory. The measured arterial hemoglobin saturation value (SpO_2) of the sensors is compared to arterial hemoglobin oxygen (SaO_2) value, determined from blood samples with a laboratory co-oximeter. The accuracy of the sensors in comparison to the co-oximeter samples measured over the SpO_2 range of 70 – 100%. Accuracy data is calculated using the root-mean-squared (Arms value) for all subjects, per ISO 80601-2-61 formerly ISO 9919, Standard Specification for Pulse Oximeters for Accuracy.
- Pulse rate motion testing measures pulse rate accuracy with motion artifact simulation introduced by an Oxitest Plus7 pulse oximeter tester. This test determines whether the oximeter meets the criteria of ISO 80601-2-61, formerly ISO 9919, for pulse rate during simulated movement, tremor, and spike motions.
- Low perfusion testing uses an SpO_2 Simulator to provide a simulated pulse rate, with adjustable amplitude settings at various SpO_2 levels. The module must maintain accuracy in accordance with ISO 80601-2-61, formerly ISO 9919, pulse rate and SpO_2 at the lowest obtainable pulse amplitude (0.3% modulation).

13.1 Oxygen fraction

The fraction of oxygen delivered to the patient depends on:

1. the flow rate setting on the myAirvo 3, and
2. the flow rate of the oxygen supply connected to the low-pressure inlet port on the top of the myAirvo 3.

The concentration of oxygen delivered varies significantly at target flow rates below 10 L/min with small changes in the flow rate from supplementary oxygen supply.

⚠ Warning

- Always check that suitable SpO_2 levels are achieved with the prescribed therapy.
- Use continuous SpO_2 monitoring on patients who would desaturate significantly in the event of disruption to their oxygen supply.
- The fraction of oxygen inspired by the patient will be lower than the value displayed if the patient's peak inspiratory demand exceeds the flow delivered. When the patient's inspiratory demand exceeds the flow delivered by the myAirvo 3 the patient will draw in room air during inhalation. Inhalation of room air will dilute FiO_2, (particularly when the oxygen concentration selected on the myAirvo 3 is high).

13.2 Standards and approvals

Designed to conform to the following standards: **IEC 60601-1:2005 + A1:2012 (ed 3.1)** **IEC 60601-1-2: 2014** **IEC 60601-1-8:2006 + Amd 1 2012** **ISO 80601-2-61: 2017** **ISO 80601-2-74:2017** **IEC 60601-1-11:2015**	Do not place any part of the device or accessories within 30 cm (12") of any portable mobile radio frequency communication equipment. The myAirvo 3 complies with the electromagnetic compatibility requirements of IEC 60601-1-2. In certain circumstances, the unit may affect or be affected by nearby equipment due to the effects of electromagnetic interference. Excessive electromagnetic interference may affect the therapy delivered by the device. If this should happen, try moving the myAirvo 3 or the location of the unit causing interference, or alternatively consult your healthcare provider.
FCC compliance	This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reposition or relocate the receiving antenna. • Increase the separation between the device and receiver. • Connect the device into an outlet on a circuit different from that to which the receiver is connected. • Consult your healthcare provider or your Fisher & Paykel Healthcare representative for help.

If the Medical Equipment system is modified from the specification of the manufacturer, evaluation to the requirements of 60601-1 standard is required.

Accessory equipment connected to the any port of the myAirvo 3 must be certified to IEC 60601-1 or IEC 60950-1. All configurations shall comply with the system standard IEC 60601-1-1. Anyone who connects

additional equipment to the signal input part or signal output part configures a medical system and is therefore responsible for ensuring that the system complies with the requirements of the system standard IEC 60601-1-1. If in doubt, consult your technical services department or your local Fisher & Paykel Healthcare representative.

Certain elements of the software included with product are supplied under the licence terms of third parties, including elements of the software that are subject to certain open source software licences. Where required by the terms of these licences, Fisher & Paykel Healthcare Limited provides notices regarding such software elements on its website. Please visit https://www.fphcare.com/airvo3/third-party-licenses to view these notices. Note that the notices that apply may be updated as the software included in the product is updated.

The F&P myAirvo is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.fphcare.com/certifications.

13.3 Device disposal instructions

This device contains electronics and a lithium battery. Please do not discard as regular waste.
Return to Fisher & Paykel Healthcare or dispose according to local guidelines for disposing of electronics.
In the European Union return to Fisher & Paykel Healthcare for disposal.

13.4 Disposal of accessories, spare parts and packaging

Dispose of accessories, spare parts and packaging according to local guidelines. Place the breathing tube, and water chamber in a waste bag at the end of use and discard with normal waste. Hospitals should discard according to their standard method for disposing of contaminated product.

14. Glossary

14.1 Status icons

Status icons are displayed on the status bar.

Icon	Description
	The myAirvo 3 is being powered from a wall power supply.
	Touchscreen is locked to prevent accidental changes
	myAirvo 3 InfoUSB device is connected
 100%	Status of the internal battery (only when the optional battery is installed):
 50%	50% of the battery charge is remaining
 50%	Battery is charging (currently at 50% of its capacity)
 50%	Battery is not charging properly†
	Battery is missing or faulty†
	Battery is due for replacement†

† Check the battery is properly installed. Replace the battery if the problem persists.

14.2 Symbols

Refer to the instructions for use for safe operation to avoid the risk of injury	Warning: surface may be hot. Do not touch the surface to avoid burns.	Rx only (USA) Federal Law restricts this device to sale by, or on the order of, a physician.	Consult instructions for use for detailed information
Warning: a potential hazard which, if not avoided, could result in death or serious injury.	Caution: a potential hazard which, if not avoided, could result in minor or moderate injury.	Note: emphasizes information important for using the Airvo 3 correctly.	Select item on screen, scroll screen content
Power button	Usage Information button	Menu button	Alarm inhibit
Alarm name	Audible alarm paused	Battery status	Touch lock enabled
Wall power supply	USB port and Compatible USB device detected	Regulatory compliance mark (RCM)	Pulse rate
Respiratory rate	Alarm limits	Temperature range	Humidity range
Class II equipment (double insulated)	Type BF applied part (body floating)	**IP22** Protected against ingress of small objects and water drops	Do not use if package is damaged
Manufacturer	REF Catalogue number	SN Serial number	LOT Batch code
Date of manufacture	Shelf-life expiry date	Do not discard as regular waste	Discard as regular waste
EC REP EU representative	CE Mark		

14.3 Terms

bpm: alternatively, unit for respiratory rate (breaths per minute) or pulse rate (beats per minute).

Breathing gas: see Respiratory gas.

Breathing tube: a heated tube that delivers air flows from the myAirvo 3 to a patient interface.

Cannula: a device used to deliver supplementary oxygen or increased air flow though the nasal cavity.

COHb: carboxyhemoglobin.

Condensation: water droplets that form on cold surfaces.

Dew-point temperature: a measure of humidity (water vapor) in a gas, expressed as the temperature of a surface where liquid water would begin to form.

Distilled water: water that has been boiled into vapor and condensed back into liquid in a separate container to remove impurities.

ECG: electrocardiogram.

EEG: electroencephalogram.

Effective hemoglobin: the hemoglobin in the blood which is capable of transporting oxygen.

EKG: electrocardiogram.

EMG: electromyography.

Expiration: breathing out.

FiO_2: the concentration of oxygen in the breathing gases delivered to the patient.

Flow rate: the volume of air delivered by the myAirvo 3. Measured in liters per minute.

Functional oxygen saturation: the fraction of effective hemoglobin which is oxygenated.

Heater plate: the hot metal plate at the front of the myAirvo 3 which heats the water chamber.

Humidity: a measure of the amount of water vapor in a gas. Inspiration: breathing in.

L/min: liters per minute. A measure of flow rate.

Mask adapter interface: a patient interface that supplies breathing gas to a connected mask.

MetHb: methemoglobin.

Nasal interface: a patient interface that supplies breathing gas through your nose.

Oxygen concentrator: a device that increases the concentration of oxygen in a supply of air by removing nitrogen gas.

Oxygen source: a supply of oxygen such as an oxygen bottle or oxygen concentrator.

Drinking quality water: water suitable for drinking.

PR: pulse rate.

Relative humidity: a measure of the water vapor content of a gas relative to the water vapor content above still water in a closed container.

Respiratory gas: air supplied by the myAirvo 3 to the patient. The breathing gas may have a higher concentration of oxygen than room air.

SaO_2: arterial blood oxygen saturation.

SpO_2: peripheral capillary oxygen saturation.

Tracheostomy interface: a patient interface that supplies breathing gas through a tracheostomy port.

USB: universal serial bus.

Water chamber: a container of water that is heated to humidify the breathing gases.

Water supply tube: the thin tube used to connect the autofill water chamber to the water bottle.

Notes

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