

Quick Guide Home Use

ATMOS C 051 Thorax

English



R_{only}

GA2US.710101.0

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IMPORTANT INFORMATION

Please READ and KEEP this information posted in a handy place.

YOUR CONTACT INFORMATION	
Your Nurse's Name:	
Your Nurse's Phone Number:	
Your Doctor's Name:	
Your Doctor's Phone Number:	
In case of emergency:	• FIRST call 9-1-1 (or your local emergency number) • THEN call your doctor or nurse.
INFORMATION FOR YOU TO KNOW	
Issues with the ATMOS C 051 Thorax?	Do not attempt to fix the device. If you have any problems with the device, call your doctor or nurse.
Keep your ATMOS C 051 Thorax ON	If therapy is off/interrupted, this can be life-threatening.
Changing accessories	Only change the accessories whose replacement is described in these instructions (hose system and secretion canister).
Ordering accessories (hose system, secretion canister)	Call your doctor or nurse.
When do I need to replace the secretion canister?	If the warning message "Secretion canister full or hose blocked" appears and • the secretion canister is full • or the filter in the secretion canister has come in contact with secretion
When do I need to replace the hose system?	Only change the hose system as advised by your doctor or nurse.

WHEN TO CALL YOUR DOCTOR OR NURSE

DIFFICULTY BREATHING:	If you have DIFFICULTY BREATHING, CALL 9-1-1 (or your local emergency number).
Changed secretion:	Call your doctor or nurse immediately if: • you notice a significant change in color or quantity of the fluid. • you see the secretion canister fill rapidly.
Other problems:	Call your doctor or nurse immediately if: • you experience increasing pain. • the warning message will not turn off and you have been unable to solve the problem. • the device has been dropped. • you notice any adverse reactions on the skin that comes into contact with the device, such as redness (erythema), swelling (oedema), irritation, sensitisation (delayed type IV hypersensitivity), allergy, immune reaction or other reactions.
Other concerns:	Talk with your doctor or nurse if you have any concerns about: • wound infection • other serious infections • allergic reactions

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Explanation of pictures and symbols

	Warning of a danger that can cause injury or death.
	Notice of potential material damage.
	Useful information on the handling of the device.
1.	Action. Proceed step by step.
»	Result of an action.
	Follow the arrows
	Engage, check correct fit (This is an acoustic sound and not a display on the device).
 	Clamp (This is NOT a pair of scissors. Never cut the hose system or the chest tube!)

Overview of all components



ATMOS C 051 Thorax
(provided by hospital)



Secretion canister
(provided by hospital)



Hose system
(provided by hospital)



Disposable strap
(provided by hospital)



Disposable gloves
(provided by hospital)



Hose clamp
(provided by hospital)

1. Patient Safety Information

WARNING

Electric shock due to unsuitable mains power connection, incorrect handling of the product or damage to product components.

- Call your doctor or nurse if the device has been dropped and you notice any damage.
- Position the device in such a way that you can easily disconnect it from the mains power supply at any time.
- Do not overload your electrical outlets.
- Keep electrical cords out of traffic areas.
- Never touch the power plug or power cable with wet hands.
- Never immerse the device in water or other liquids.
- Do not allow liquids to enter the device or power supply unit.
- Do not spill liquids on the device, it must remain dry.
- Do not take a shower / bath with the device. A sponge bath could be possible. It must be ensured at all times that the device does not come into contact with any liquid and that the humidity is not too high.

Check with your doctor or nurse first whether a sponge bath is possible.

WARNING

Risk of suffocation or strangling for children and animals through accessory parts!

Small parts may cause children or animals to suffocate or be injured.

- Hoses or power cables may strangle people or animals, especially if the hoses or cables are particularly long.
- Keep unauthorised persons away from the device during suction.
- Keep children away from swallowable small parts.
- Keep the device and all its accessories out of reach of children when not using it.

WARNING

Risk of infection from non-sterile products!

- Do not use defective secretion canisters or hose systems.
- Do not reuse disposed secretion canisters and hose systems.
- Only use sterile packaged parts when the packaging is undamaged.

WARNING

Ensure that the device is always functional and ready for use!

- Place the device where it is easily accessible.
- Call your doctor or nurse if the device has been dropped and you notice any damage.
- The device and the secretion canister must always be used vertically. If the device should tilt it must be placed upright again.
- The device cannot be carried at the hose system.

WARNING

Avoid improper use!

- Employ the device only according to its intended use.
- Do not change the settings on the therapy device.
- Do not change the target vacuum on your device on your own authority, even if the value differs from the example images in this document. Only change the target vacuum on the written instructions of your doctor / nurse.
- Never place the device on the floor.
- Respond immediately to warning messages.
- Check the secretion canister at regular intervals and always replace it when the maximum filling level of 800 ml is reached.
- Check the hose system at regular intervals.
- The bending of the patient hose leads to an interruption of the therapy and incorrect measurements.
- Prior to the change of the secretion canister the chest tube must be clamped.
- Prior to the change of the hose system the chest tube must be clamped.



Avoid damage to the device!

- Please observe the ambient conditions during operation.
- Do not use the device in aircraft.
- Do not cover the device during suction.
- Do not place the device directly next to other devices as this may cause excessive heating of the device.
- The device and the secretion canister should not be dried in a microwave oven.
- The mains cable and the device must be kept away from hot surfaces.

- The device may only be operated under the specified ambient conditions during operation and should not be subjected to direct solar irradiation as this could lead to errors.
- Do not store the inactive device at home.

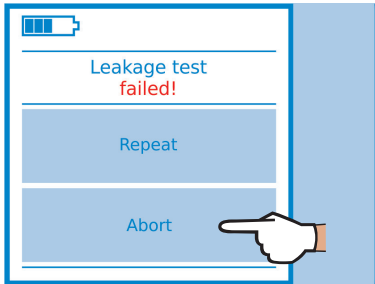
2. Switch on the device if accidentally switched off



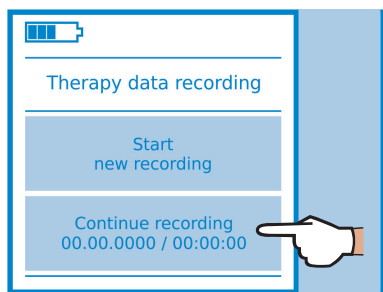
Ambient conditions during operation

Temperature:	41 °F...95 °F (+5...+35 °C)
Relative humidity:	20...80 %
Air pressure:	700...1060 hPa
Maximum operational altitude	3,000 m (NN)

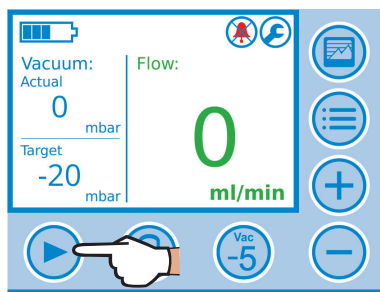
- ⚠ Do not switch off the device! If you have accidentally switched it off, switch it on again immediately!
- ⚠ If the device switches off on its own, check whether the battery is charged!
- ⚠ Call your doctor or nurse immediately if you are unable to switch the device back on and restart therapy!
- ℹ To operate the touchscreen, you must hold your finger on the desired position for approx. 1 second!



1. Switch on the device by touching the  symbol for 2 seconds until the ATMOS logo appears.
2. If this display appears, press "Abort".
There is no risk from the "Leakage test failed!" display. The leakage test is only for checking before connecting the device to a patient.



3. After a short time the display "Therapy data recording" appears. Press the button "Continue recording".



4. Start the therapy again.

⚠ Do not change the settings on the device!



3. Charging the device



1. Insert the plug of the power supply unit to the charging connector of the device.
2. Connect the power supply unit with the power cable.



3. Put the power plug into the power socket.

The ATMOS C 051 Thorax displays the  symbol on the display. The bar on the far right flashes. As long as the power plug is inserted, the symbol is green .

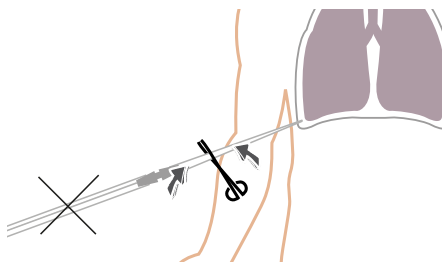
As soon as the battery is fully charged the last bar of the symbol stops blinking .

4. Disconnect the power plug from the socket.
5. Remove the charging plug from the charging socket.

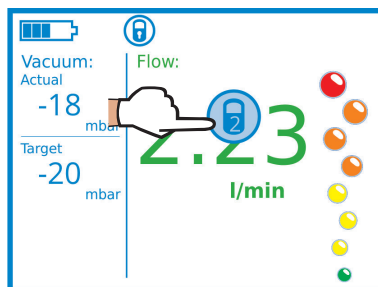
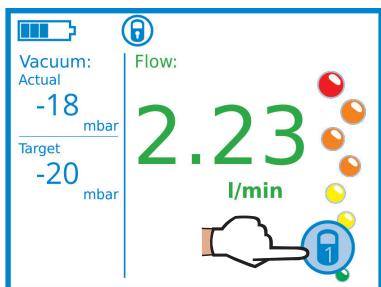


4. Changing the secretion canister

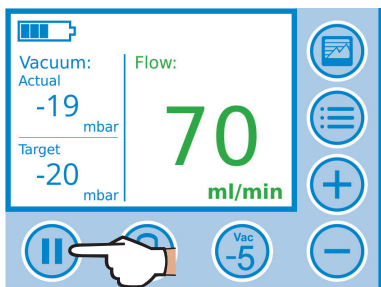
- i** To operate the touchscreen, you must hold your finger on the desired position for approx. 1 second!



- ⚠** Always wear disposable gloves!
1. Unpack a new secretion canister.
 2. Clamp the chest tube with a hose clamp see „6.1 Clamp the chest tube“ on page 21.
This is NOT a pair of scissors. Never cut the hose system or the chest tube!



3. Deactivate key lock by touching the display, pressing **1** and **2**.

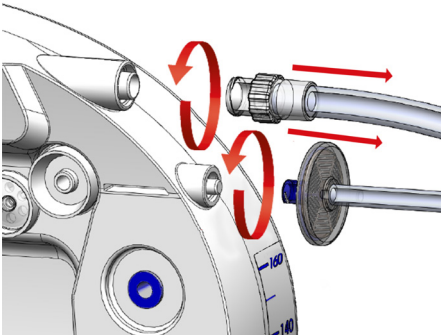


4. Stop the therapy.

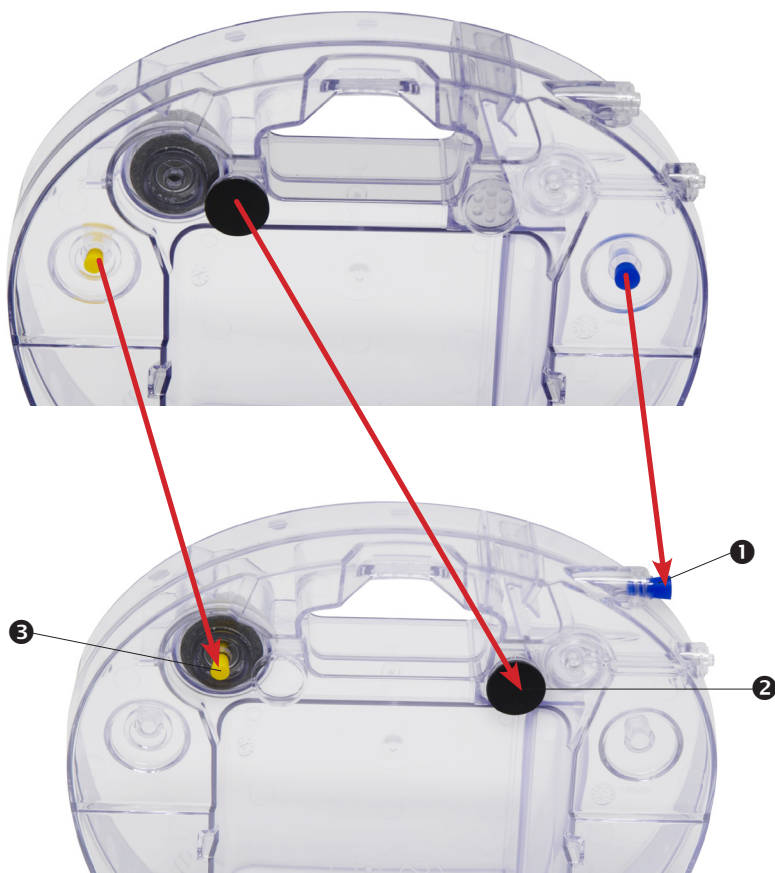


If this warning message appears during change, the message can be suppressed for 1 minute by pressing .

 Do not start therapy during the change!



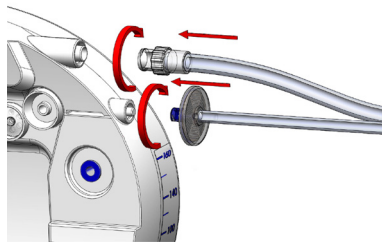
5. Remove both hoses of the hose system from the secretion canister by turning it counter-clockwise.
6. Remove the secretion canister by pressing the blue release button, slightly angle the secretion canister backwards and carefully remove it upwards from the guides.



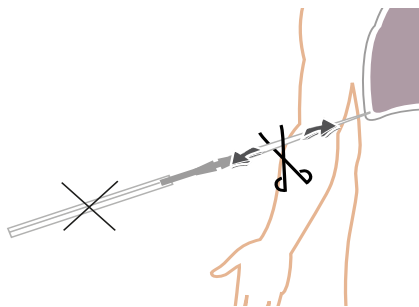
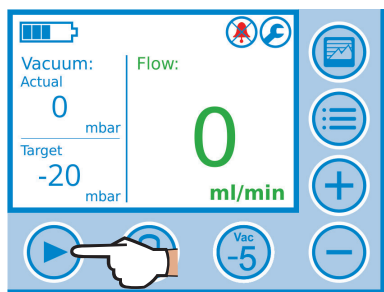
7. Remove the blue protection cap and use it to close the upper Luer lock connection of the secretion hose **1**.
8. Remove the black protection cap and use it to seal the pop-off valve **2**.
9. Remove the yellow protection cap and use it to close the connection of the device **3**.
10. Correctly dispose the sealed secretion canister in the regular trash.



11. Take the new sterile secretion canister and insert the secretion canister guides of the secretion canister into the guide on the back side of the device. Hold the secretion canister slightly angled to the device.
12. Press the secretion canister against the device, until it audibly engages. The release button returns to initial position.
13. Slightly pull on the secretion canister to ensure that it is tightly fitted to the device.



- ⚠ Do not overtighten the Luer lock connections!**
14. Connect the smaller Luer lock with the blue filter to the lower connection of the secretion canister by rotating it clockwise.
 15. Connect the Luer lock with the larger diameter to the upper connection of the secretion canister by rotating it clockwise.



16. Start the therapy again (If necessary: Deactivate the key lock as described in step 3).

i If the automatic key lock has been activated, deactivate it as described in step 3!

i Wait until the actual vacuum corresponds to the target vacuum!

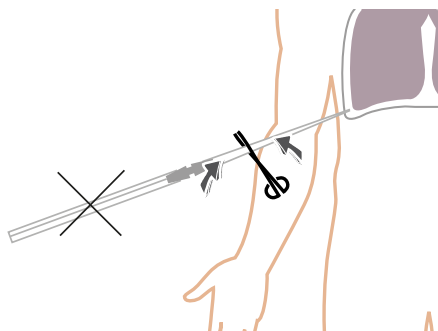
⚠ Do not change the settings on the device!

17. Remove the clamp from the chest tube see „6.2 Remove the hose clamp from the chest tube“ on page 22. This is NOT a pair of scissors. Never cut the hose system or the chest tube!

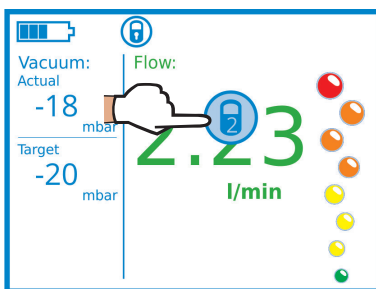
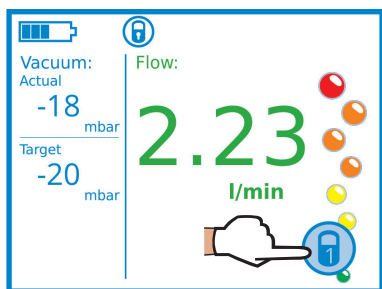


5. Changing the hose system

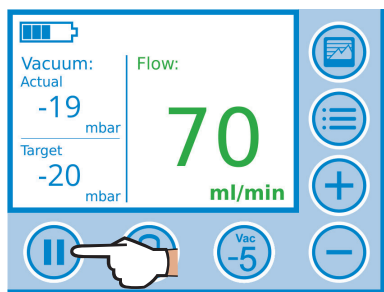
- ⚠ Only change the hose system as advised by your doctor/nurse.
- i To operate the touchscreen, you must hold your finger on the desired position for approx. 1 second!



- ⚠ Always wear disposable gloves!
 - ⚠ Do not clamp the hose system with two hoses!
1. Prepare a new hose system.
 2. Clamp the chest tube with a hose clamp see „6.1 Clamp the chest tube“ on page 21. This is NOT a pair of scissors. Never cut the hose system or the chest tube!



3. Deactivate key lock by touching the display, pressing  and .

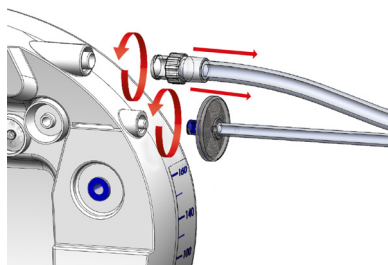


4. Stop the therapy.

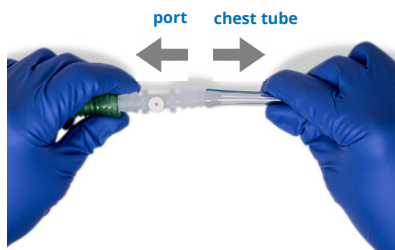


If this warning message appears during change, the message can be suppressed for 1 minute by pressing .

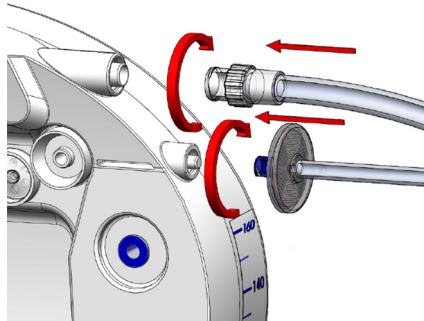
- ⚠ Do not start therapy during the change!



5. Remove both hoses of the hose system from the secretion canister by turning it counter-clockwise.

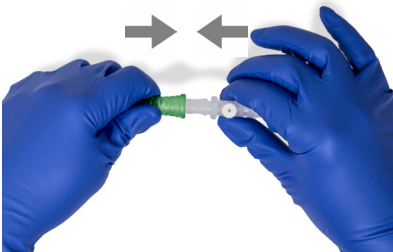


6. Remove the port of the old hose system from the chest tube.



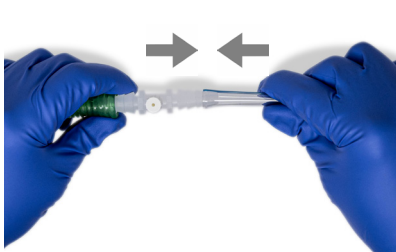
⚠ Do not overtighten the Luer lock connections!

7. Connect the smaller Luer lock of the new hose system with the blue filter to the lower connection of the secretion canister by rotating it clockwise.
8. Connect the Luer lock with the larger diameter of the new hose system to the upper connection of the secretion canister by rotating it clockwise.



⚠ Do not touch the tips of the new port!

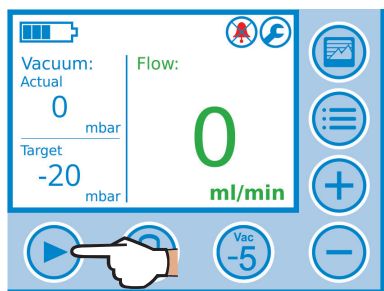
9. Connect the **new** port of the **new** hose system to the green patient's side of the **new** hose system.



10. Connect the **new** port to the chest tube.

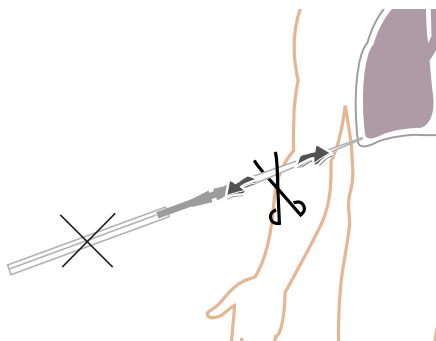
⚠ Check the Luer lock cap of the port for tightness! Turn clockwise to close the Luer lock cap if it is not tight.





11. Start the therapy again (If necessary: Deactivate the key lock as described in step 3).

- ⚠ Do not change the settings on the device!
- i Wait until the actual vacuum corresponds to the target vacuum!



12. Remove the clamp from the chest tube see „6.2 Remove the hose clamp from the chest tube“ on page 22.
This is NOT a pair of scissors. Never cut the hose system or the chest tube!

6. Using the hose clamp

6.1 Clamp the chest tube



1. Open the hose clamp by holding the silver clip (in the picture above) and turning the blue part slightly until it looks like the picture.

2. Hold the silver clip (on the right in the picture) and turn the knurled nut counter-clockwise to open the hose clamp further.

⚠ Do not turn the knurled nut so far that it falls off the silver clip.



3. Position the hose clamp on the chest tube as shown in the picture.

4. Close the hose clamp by holding the silver clip and turning the blue part slightly until it clicks into place and looks like the picture.



5. Hold the silver clip (on the right in the picture) and turn the knurled nut clockwise to close the hose clamp further.
6. The hose clamp should now completely close the chest tube.

6.2 Remove the hose clamp from the chest tube



1. Hold the silver clip (on the right in the picture) and turn the knurled nut counter-clockwise to open the hose clamp.
2. Open the hose clamp by holding the silver clip and turning the blue part slightly until it looks like the picture.

⚠ Do not turn the knurled nut so far that it falls off the silver clip.



3. Remove the hose clamp from the chest tube.
4. Close the hose clamp by holding the silver clip (in the picture above) and turning the blue part slightly until it looks like the picture.

⚠ Do not dispose of the hose clamp! Keep the hose clamp in a safe place for the next use.

6.3 Optional stowing of the hose clamp on the black handle

⚠ It must be ensured that you have the hose clamp available at all times. One way of stowing the hose clamp on the black handle is described below.



1. Skip step 4 from chapter „6.2 Remove the hose clamp from the chest tube“ on page 22 and place the hose clamp on the left side of the black handle as shown in the picture.
2. Close the hose clamp by holding the silver clip and turning the blue part slightly until it clicks into place and looks like the picture.

⚠ Do not place the hose clamp on the right-hand side of the black handle where the hose system is attached.



3. Hold the silver clip and turn the knurled knot clockwise to close the hose clamp further.

- ⚠ The hose clamp only needs to be tightened so that it cannot open by itself.
- ⚠ Please take care not to injure yourself on the protruding part of the hose clamp!



4. To release the hose clamp from the black handle again, hold the silver clip and turn the knurled nut counter-clockwise to open the hose clamp. Then open the hose clamp by holding the silver clip and turning the blue part slightly until it looks like the picture.

- ⚠ Do not turn the knurled nut so far that it falls off the silver clip.

7. Moving the device

You can move the device by carrying it by the black handle or the attached strap.

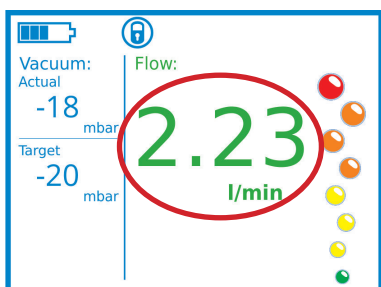
⚠ Do not carry the device by the hose system!



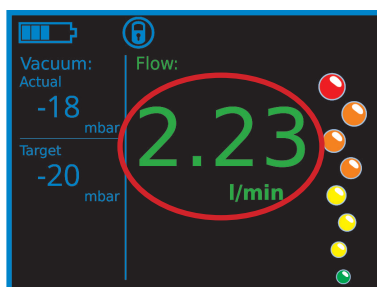
8. Reading the current flow of the device and amount of secretion

You can read the current flow of the device on the displays at the position marked in red here.

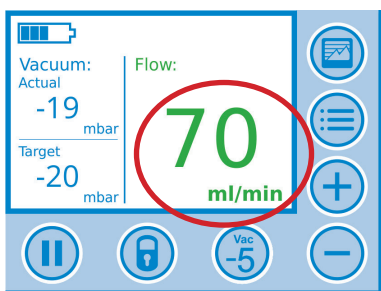
Take a picture of the display and send it to your doctor / nurse if they ask you to do so.



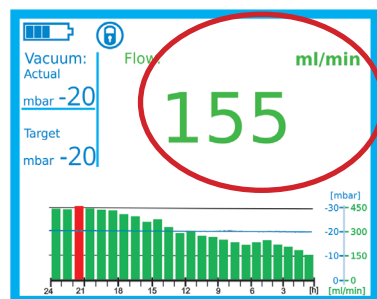
Keylock display.



Keylock display at night.



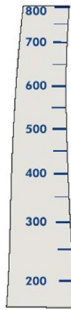
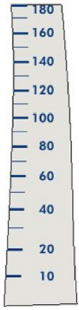
Display without keylock.



Keylock display after one hour of therapy.

- ⚠** Do not change the target vacuum on your device on your own authority, even if the value differs from the example images in this document. Only change the target vacuum on the written instructions of your doctor / nurse.

You can read the current amount of secretion on the sides of the secretion canister.



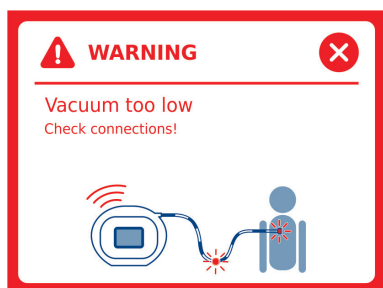
1. Place the device on a flat and stable surface.
2. Wait a moment to allow the liquid to settle.
3. Check the fill level by looking at the scale on the secretion canister. Use the height of the secretion in relation to the markings as a reference (see for example 375 ml in the picture above right).

9. Warning messages

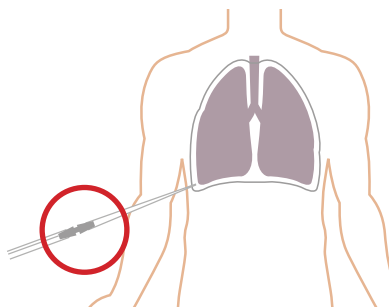
If a warning message appears, carry out the recommended actions on the display.

- ⚠ Call your doctor or nurse immediately if the warning message will not turn off and you have been unable to solve the problem!
- i To operate the touchscreen, you must hold your finger on the desired position for approx. 1 second!

Vacuum too low



If the warning message **"Vacuum too low"** appears, check the following components for leakage and if necessary attach them correctly:



- » Connection from the hose system to the chest tube. Also check the Luer lock cap of the port for tightness.



- » Connection from the hose system to the secretion canister (see page 15).



- » Secretion canister connection (see page 15).

Secretion canister full or hose blocked



If the warning message **“Secretion canister full or hose blocked”** appears, check the following components for blockages and replace them if necessary:

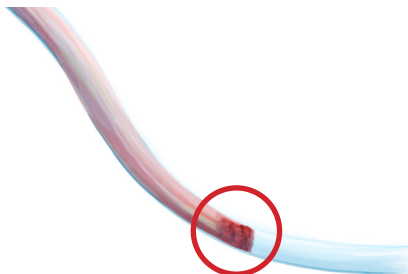


- » Change the secretion canister if the secretion canister is full or the black filter has come into contact with liquids („4. Changing the secretion canister“ on page 12).

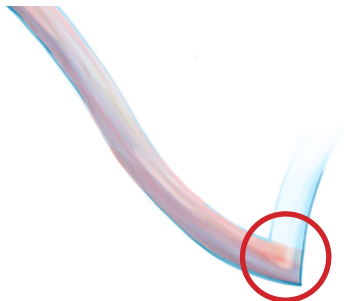
Other possible causes for the warning message:



» Check whether the filter of the hose system has become wet.



» Check whether the hose system is blocked.



» Check whether the hose system is kinked or something is standing on the hose system and compromising its patency.

Display



Troubleshooting

Place the device in an upright position. The warning signal is automatically deactivated.

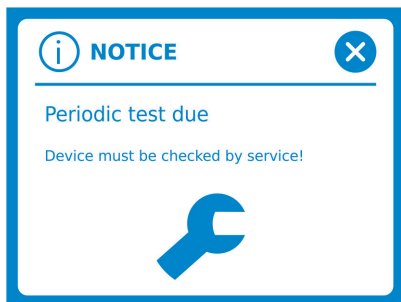
Call your doctor or nurse immediately.

Press the play symbol to start the therapy.

If the warning message is suppressed, it appears again with tone after one minute.

! Do not start the therapy while changing the secretion canister or the hose system.

Display



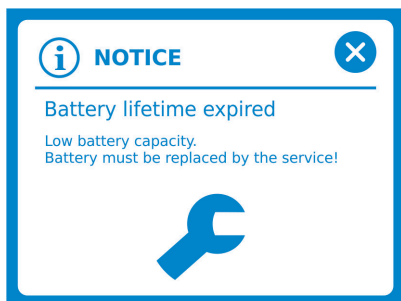
Cause and recommended action

This warning message only appears if the device has been switched off and on again.

Suppress the warning message by pressing  and restart the therapy. Then call your doctor or nurse immediately.

This is not a problem for the performance and function of the device. It can continue to be operated.

The device is checked at regular intervals by the manufacturer or service partners.



This warning message only appears if the device has been switched off and on again.

Suppress the warning message by pressing  and restart the therapy. Then call your doctor or nurse immediately.

This is not a problem for the performance and function of the device. It can continue to be operated.

The hospital must take care of replacing the battery.

10. Notice



MedizinTechnik

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