

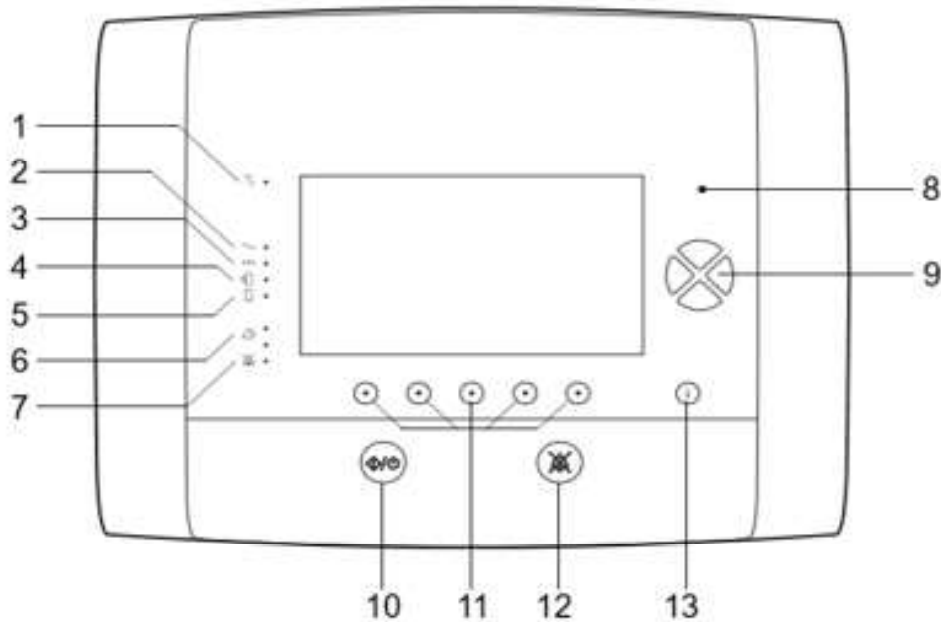
Vivo 65

Quick Reference Guide



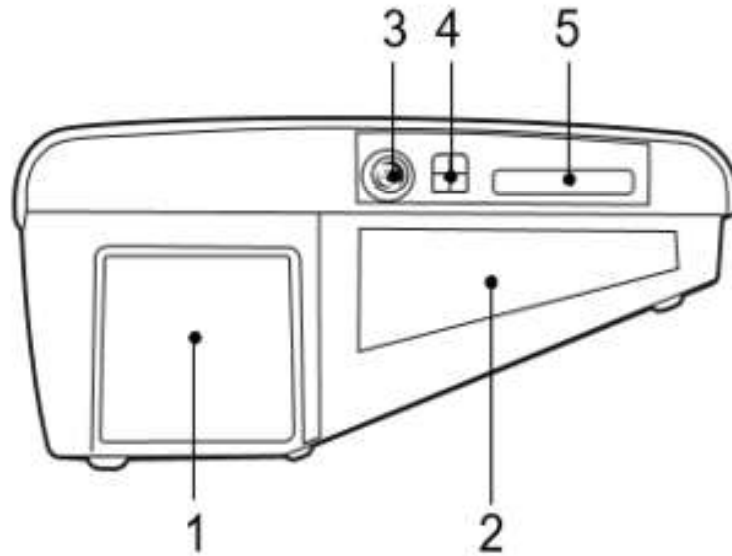
This is not a complete guide for the Vivo 65,
see your manual for complete instructions

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





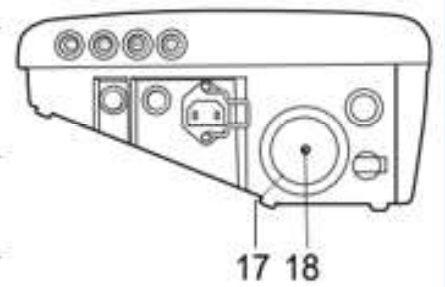
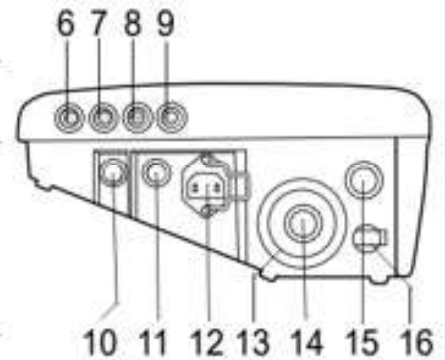
No.	LED	FUNCTION
1	Trigger	Patient triggered breath indication
2	Mains	Power source: Mains
3	External DC	Power source: External DC
4	Click-on battery	Power source: Click-on battery
5	Internal battery	Power source: Internal battery
6	Alarm	Alarm indication (red or yellow)
7	Audio pause	Paused alarm sound indication
8	Sensor	Ambient light sensor

No.	USER BUTTONS	FUNCTION
9	Navigation/Setting	Navigation in current menu selection/Define settings
10	Start/Stop	Start/Stop ventilation treatment
11	Function/Navigation	Function according to display
12	Audio Pause	Pause the alarm sound
13	Information	Show/Hide information



No.	ITEM	FUNCTION	COLOR/ SYMBOL
1	Patient air inlet	Air path in, replaceable filters Attention: Make sure that nothing can block the patient air inlet on the side of the Vivo 65. Read “Placing the Vivo 65” on page 33 for more information.	
2	Cooling air inlet	Inlet internal cooling, cooling air filter	
3	Nurse call / Remote alarm	Connection for nurse call	
4	USB data connection port	Data connection (PC and the Vivo 65)	
5	Memory card slot	Ventilator Memory Data download	















No.	ITEM	FUNCTION	COLOR/ SYMBOL
6	Remote Start/Stop	Connection for remote start/stop module	 
7	SpO ₂ interface port	Connection for SpO ₂ module	 SP O ₂
8	CO ₂ interface port	Connection for CO ₂ sensor	 CO ₂
9	FiO ₂ interface port	Connection for FiO ₂ sensor	 Fi O ₂
10	Standby button	Power on and off	
11	External DC inlet	Connection for external DC power source	
12	Mains inlet	Connection for mains power source Attention: Read the chapter "Connecting the Vivo 65 to Mains" on page 34.	
13	Dual limb insert	Changeable connection for dual limb circuit, with integrated exhalation valve Insert for Adult use Insert for Paediatric use	 
14	Dual limb exhaled air inlet	Exhaled air connection for dual limb circuit	
15	Patient air outlet	Connection for patient circuit	
16	Oxygen inlet port	Connection for low pressure/bleed-in oxygen source	 
17	Single limb insert	Changeable connection for single limb circuit	
18*	Exhalation valve control pressure outlet	Connection for external exhalation valve control pressure tube	



* Optional

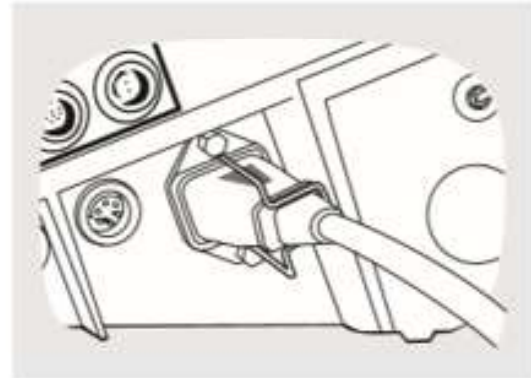
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Symbols Used in the Menu

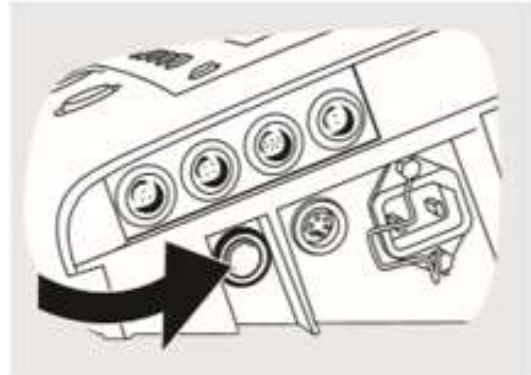
SYMBOL	DESCRIPTION
	Internal battery level
	Click-on battery level
	Home Mode activated
	Dual limb circuit for integrated exhalation valve selected (Dual)
	Single limb circuit with leakage port selected (Leakage)
	Single limb circuit with active exhalation valve selected (Exh. valve)
	MPV breath mode selected. Circuit with mouthpiece interface shall be used.
	SpO ₂ connected
	FiO ₂ connected
	CO ₂ connected
	Multiple pages
	Multiple content available
	High priority alarm event in history list
	Medium priority alarm event in history list

Turn On and Enter Operating Mode

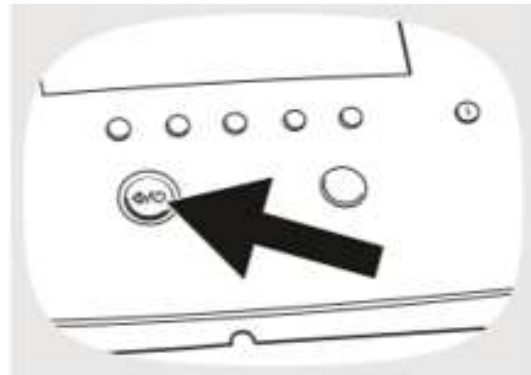
1. Make sure the mains supply is connected and secured by the restraining clip.



2. Turn on the Vivo 65 and enter Standby mode by pressing the Standby button on the side panel.



3. To start treatment and enter operating mode first press and hold the Start/Stop button on the front panel.

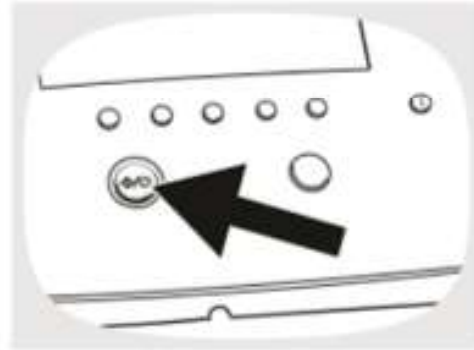


4. Release the Start/Stop button when the progress bar is filled.



Stopping Treatment and Turning Off

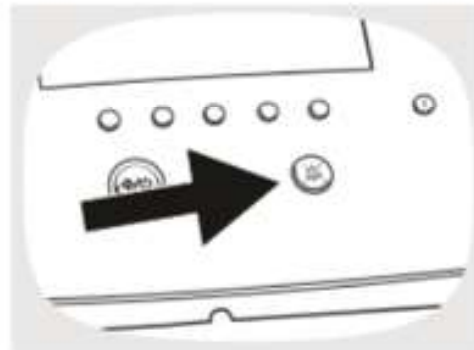
1. To stop treatment and enter Standby mode, first press and hold the Start/Stop button on the front panel.



2. Release the Start/Stop button on the front panel when the progress bar is filled.



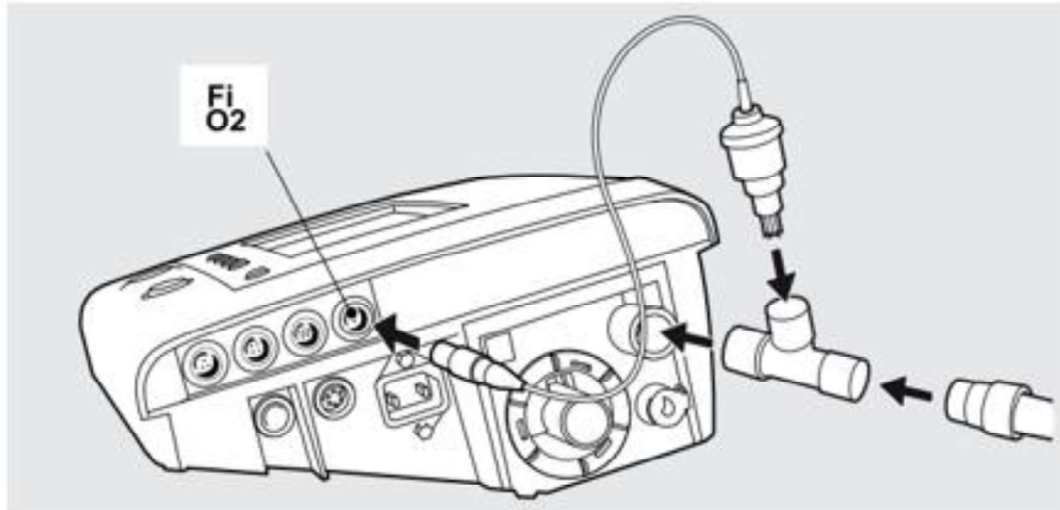
3. Press the Audio Pause button within 10 seconds. Press the button firmly.



4. When the Vivo 65 is not in an active treatment mode, press the Standby button on the side panel to change the unit to a low power standby state.



How to connect the FiO₂ Sensor

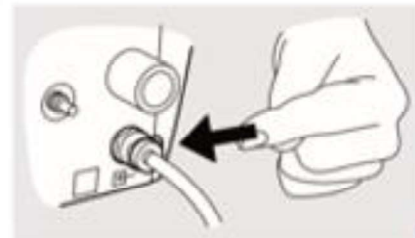
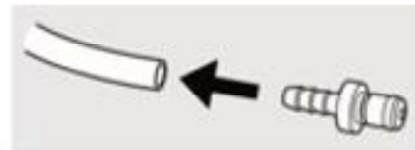


- **O₂ must be turned OFF when the Vivo 65 is not in operation mode!**
- **It is recommended to monitor the O₂ concentration**

1. Mount the oxygen tube on the connector
2. Connect the O₂ tube, a click sounds when the connector is properly attached

Disconnect:

1. Press the release button to disconnect,
2. remove the tube
3. Turn off O₂ source and then the Vivo 65



How to connect the SpO₂ Sensor

The Vivo 65 with the SpO₂ sensor is intended to measure functional oxygen saturation of arterial hemoglobin (%SpO₂) and pulse rate.

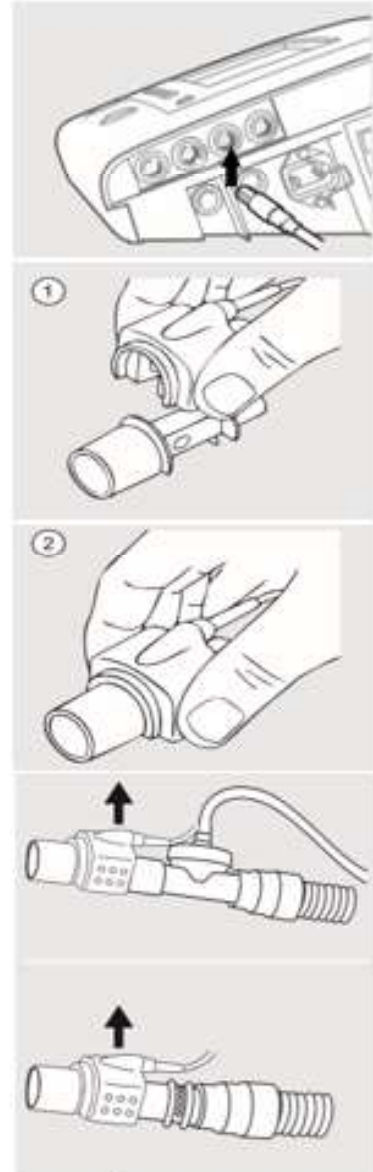
Connects directly to Vivo

- All Vivos are “Plug & Play” ready
- Uses Masimo technology
- SpO₂ and Pulse rate shown on Vivo
- Alarms can be set on Vivo
- Easy longterm view in Trend Menu
- Stored in Vivo Memory Data for review in PCSW



How to Connect the CO₂ Sensor

1. Connect the CO₂ sensor cable to the CO₂ connection port on the Vivo 65 (according to the instruction “Connecting and Disconnecting the Cables” on page 97). A green LED indicates that the CO₂ sensor is ready to use.
2. Snap the CO₂ sensor probe on top of the airway adapter. It will click into place when properly sealed.
3. Perform a CO₂ zeroing procedure.
4. Connect the airway adapter to the patient circuit.
5. Make sure to position the CO₂ sensor with the LED pointing upwards.

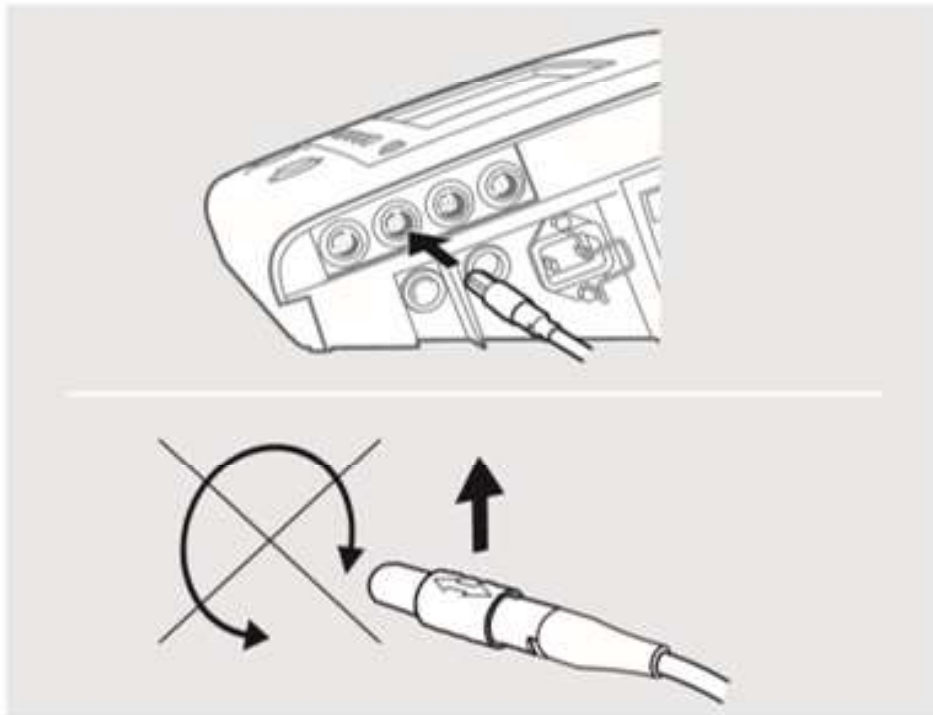


CO₂ zeroing is recommended when changing the airway adapter. Besides from that, zeroing only needs to be performed when an offset in monitored CO₂ values is observed, or when a CO₂ sensor accuracy unspecified message is displayed.

CO₂ zeroing can be performed from the “FiO₂/CO₂ Calibration” page under the “Others” section

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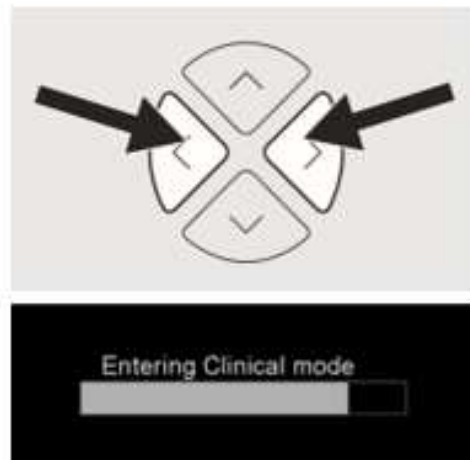
Connecting and Disconnecting the Cables



Insert the connector with the marking pointing upwards. Pull the connector sleeve, not the cable itself or cable restrainer to release the connector.

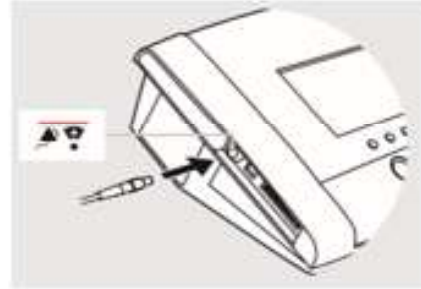
To switch to Clinical mode (**unlock**) when the Vivo 65 is locked, do the following:

1. Press and hold the left and right arrow buttons simultaneously.
2. Release when the progress bar is filled.



Using the Vivo 65 with a Nurse Call System

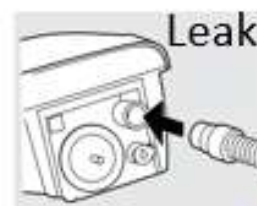
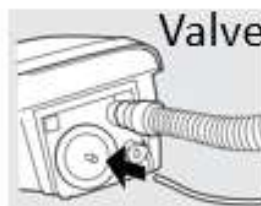
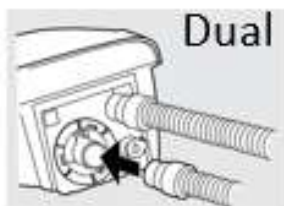
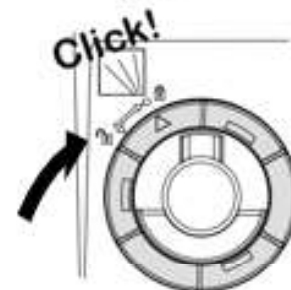
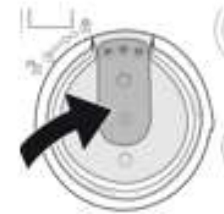
The Vivo 65 can be connected to a nurse call system using the nurse call cable. When connected, the Vivo 65 alarms will also be forwarded to the nurse call system.



1. Connect the nurse call cable on the left side panel.
2. Test the connection by triggering an alarm on the Vivo 65 and verify that the nurse call system activates.

Connect Patient Circuit Insert

1. Do not remove the gasket that is placed inside the Vivo 65's insert socket. Removing the gasket will result in a patient circuit leakage and a Disconnection alarm and/or Exhalation Valve Control Error alarm
2. Connect the insert to the ventilator. While connecting, the lock indicator on the insert's lock-ring should point to the unlock symbol on the Vivo 65.
3. Lock the insert by turning the lock-ring clockwise, so that the indicator points to the lock symbol on the ventilator.



Select Patient Circuit Type

The patient circuit type can only be selected in Standby mode in menu **OTHERS**.

For the Vivo 65 to deliver treatment according to settings, it is important that the selection of the patient circuit type is correctly set.

- Dual limb circuit (Adult use, 22 mm), connected to the Vivo 65's integrated exhalation valve
- Dual limb circuit (Paediatric use, 15 mm), connected to the integrated exhalation valve
- Single limb circuit with external active exhalation valve; requires an optional single limb insert
- Single limb circuit with external leakage port
- Circuit with mouthpiece interface

For the ventilator to be able to deliver treatment according to settings, it is important that the selection of patient circuit type is correctly set.

- Patient circuit type setting is not available in MPV breath mode. In MPV breath mode a circuit with mouthpiece interface shall be used.
- MVi & Vti: These values are only displayed in the monitoring field if the patient circuit type is Exhalation valve or if MPV breath mode is used.
- MVe & Vte: These values are only displayed in the monitoring field if the patient circuit type is leakage circuit.

Performing the Pre-use Test

The pre-use test is used for detecting the type and characteristics of the patient circuit that is connected to the Vivo 65 . The resistance and compliance of the patient circuit are measured and calculated. This will be used to compensate for pressure and compliance deviations during treatment.

The pre-use test can be performed directly from the Others menu of the Vivo 65 display, where step-by-step instructions are shown. The patient shall not be connected during the pre-use test.

A reminder will appear each time the Vivo 65 is powered on by pressing the Standby button on the side.

Always perform a new pre-use test if the patient circuit configuration is modified (e.g. Filter).

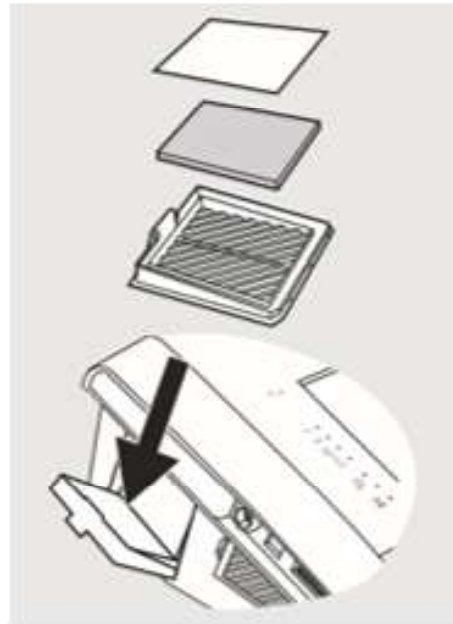
- If the pre-use test has not been performed, the Vivo 65 will operate with default patient circuit compensation.
- Pre-use test cannot be performed in MPV breath mode.
- Prompting for Pre-use Test can be turned On or Off, and can also be performed in menu **OTHERS**.

Cleaning and Replacing the Patient Air Filters

The patient air filters are located in the filter cassette at the side of the ventilator.

There are two types of filters:

- washable filter
- disposable filter



Washable Filter (grey)

Replace the washable filter at least once a year. Wash the filter at least once a week.

1. Wash the filter using warm water and a mild soap.
2. Rinse thoroughly.
3. Dry the filter by squeezing it out in a towel. Do not wring the filter.
4. Make sure the filter is completely dry before inserting.

Disposable Filter (white)

Replace the white filter at least every 4th week, or more frequently when used in high pollution or pollen-rich environments

!!! Do not wash or reuse the disposable filter.