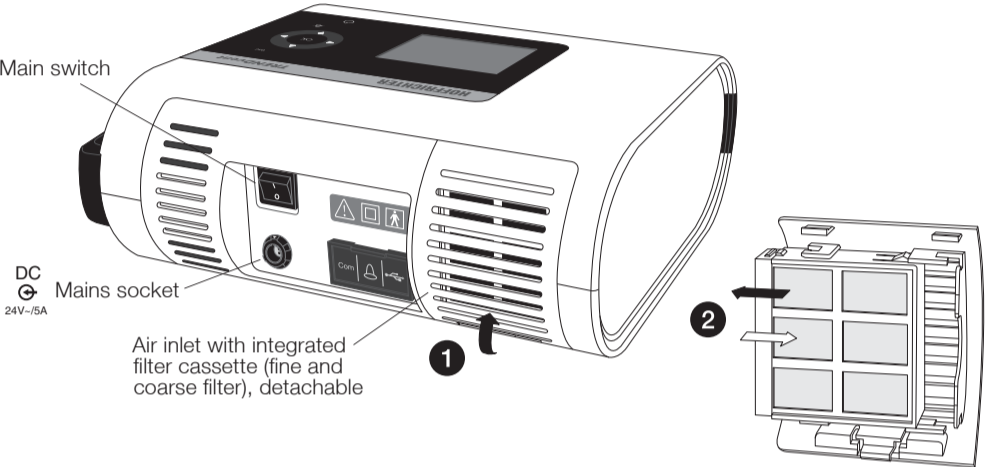
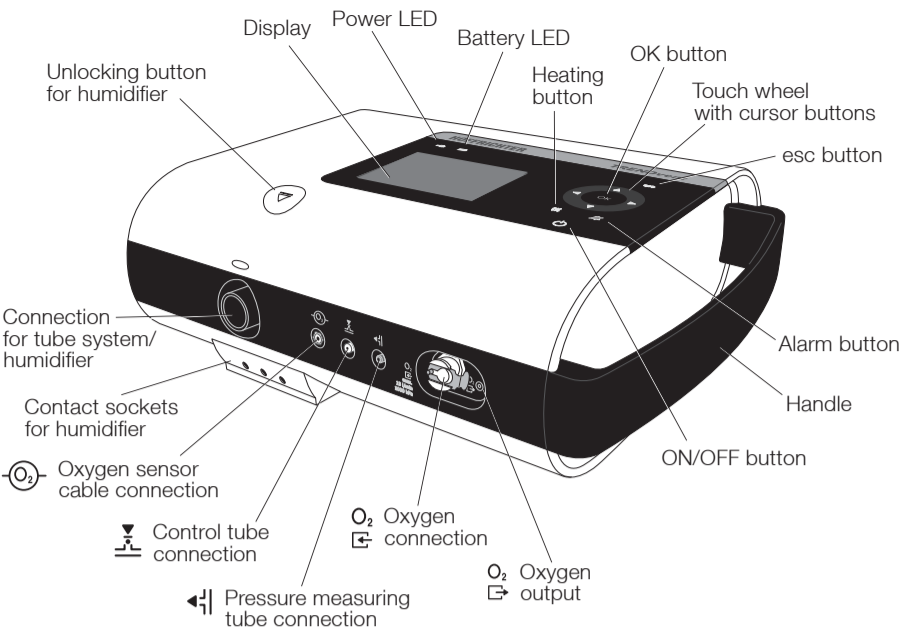


! This document does not replace the manufacturer's user's manual. Follow the user's manual.



CHANGING AND CLEANING THE FILTERS

The coarse filter must be cleaned once a week. The white fine filter cannot be cleaned. It should be inspected visually weekly and replaced monthly or more frequently if heavily soiled.

1. Pull the cover of the air inlet from the device.
2. Slide the filter cassette out from the cover of the air inlet.

3. Remove the coarse filter (black) and the fine filter (white) from the filter cassette.
4. Clean the coarse filter with mild soapy water, afterwards rinse the filter thoroughly with clear water. Let the filter dry completely in the air.

Instead of cleaning the coarse filter, you can insert a new one.

LEDs AND BUTTONS

Power LED

Color	Condition	Power supply
green	lit	Voltage > 22.0 V
red	flashing	Voltage > 22.0 V
none	off	Voltage > 22.0 V (confirmed)

Heating button

Color	Condition	Status
green	lit	Heating on
green	flashing	Heating on standby
white	lit	Heating off
white	flashing	Heating deactivated by battery operation

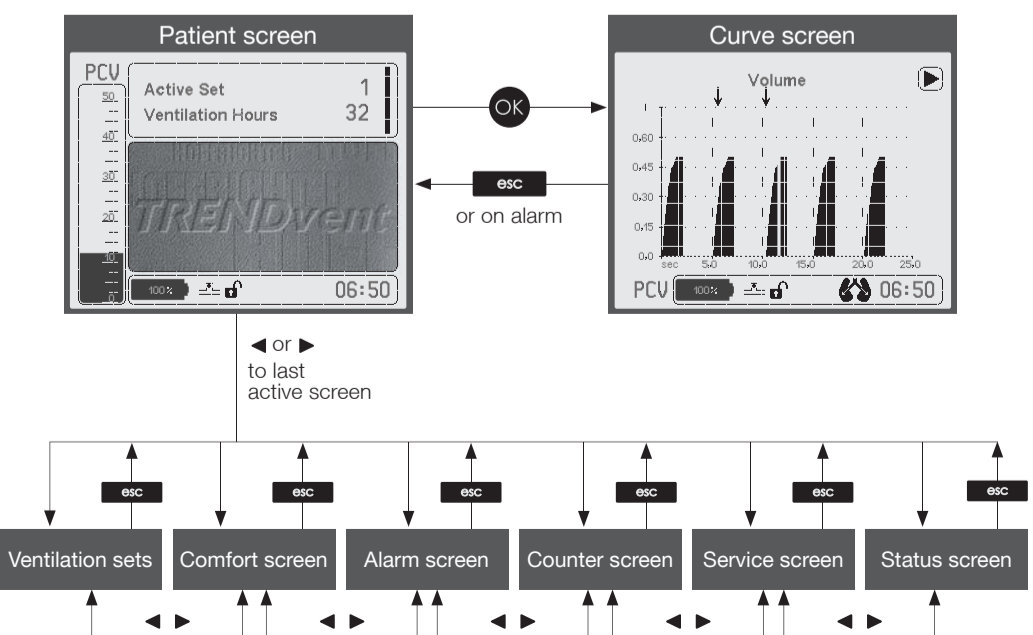
Alarm button

Color	Condition	Priority
red	flashing	HIGH
yellow	flashing	MEDIUM
yellow	lit	LOW or not yet confirmed alarm




















Battery LED

Color	Condition	Device	Capacity
green	lit	on	> 80 %
yellow	lit	on	> 30 %
red	lit	on	< 30 %
red	flashing	on	Battery error
green	flashing	off	> 80 % (Battery charging)
yellow	flashing	off	> 30 % (Battery charging)
red	flashing	off	< 30 % (Battery charging)
yellow	lit	off	Battery charging error (capacity < 80 %)
red	lit	off	Battery charging error (capacity < 30 %)













OPERATING CONCEPT



MOST IMPORTANT OPERATIONS

Action	Execution
Start ventilation	press 
Stop ventilation	press  , confirm query with "Yes" (press  and confirm with )
Switch humidifier heating on and off	press 
Activate the safety lock	press  =>  , then press  => 
Deactivate the safety lock	press  =>  , then press  => 
Switch from curve screen to patient screen	press 
Activate other ventilation set	Select desired ventilation set with  or  , then select "← Activate changes" with  or touch wheel and press  to confirm
Suppressing the alarm sound for 2 min	press 

MEANING OF SYMBOLS IN THE SYMBOL AREA OF THE DISPLAY

Symbol	Meaning
 	Capacity of internal battery
	Device is set for operation with valve tube system
	Device is set for operation with leakage tube system
	Alarm sound was muted
	Safety lock active
	Safety lock inactive
	Device must be serviced
	Mask test active
	Softstart ramp active
	Trigger initiated through patient's spontaneous respiration
	Trigger Lock active

IMPORTANT ALARMS AND MESSAGES

Alarm / message	Priority	Cause
Pressure too high	HIGH	Pressure deviation (IPAP or PEEP) greater than set "Pressure Diff."
Pressure too low	HIGH	Pressure deviation (IPAP or PEEP) lower than set "Pressure Diff."
Frequency too high	HIGH	Measured frequency greater than "Max. Frequency"
Apnea	HIGH	Set "Apnea Time" exceeded
Leakage	HIGH	Leakage greater than set "Leakage" or > 2.5 l
Volume too high	HIGH	Measured tidal volume greater than "Max. Volume"
Volume too low	HIGH	Measured tidal volume smaller than "Min. Volume"
Oxygen too high	MEDIUM	Measured FiO ₂ greater than set "Max. Oxygen"
Oxygen too low	MEDIUM	Measured FiO ₂ lower than set "Min. Oxygen"
Min. Volume not reached	Note	Measured tidal volume smaller than set minimum volume "Vt min" for 3 breaths consecutively
Safety Mode active	---	Patient not breathing spontaneously

Message	Priority	Cause	Remedy
Incorrect Tube System	HIGH	Leakage tube system is connected, but a valve tube system is set	Change setting of tube system on rear of device or replace tube system
Check Measuring Tube	HIGH	Pressure difference between measured IPAP and PEEP smaller than the half of pressure difference between set IPAP and PEEP	Check connection between measuring tube and device
Internal Battery empty	HIGH	Battery empty	Battery must be charged; 1 minute until the power supply fails completely; ventilation only possible with external power supply
Check Expiration Valve	HIGH	Rebreathing volume > 50 % of the inspiration volume (in CPAP mode 70 %) Calculated mask pressure smaller than measured pressure at the air outlet + 1.5 hPa for 3 breaths consecutively	Check expiration valve and replace if necessary or Change setting of tube system on rear of device replace tube system or Connect the control tube to the device
Battery Operation	MEDIUM	Device is not connected to mains power and is being supplied with power by the internal battery	Press alarm button
Error int. Battery	MEDIUM	Battery defective	Device must be serviced
Int. Battery low	MEDIUM	Battery capacity ≤ 10 %	Battery must be charged
Calibrate O ₂ Sensor	LOW	Oxygen sensor plugged in after device was turned on	Calibrate oxygen sensor with ventilation switched off