

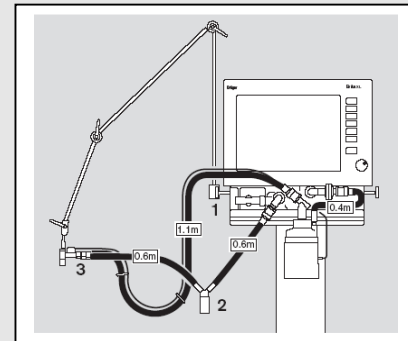


Ventilating Infants and Small Children

- Patient mode »**Pediatrics**«

Using infant size patient circuit connectors 6-42kg

- 1 Clamp hinged circuit support arm to rail on the left-hand side and tighten screws.
 - Connect ventilator circuit segments of appropriate lengths (lengths suggested are in meters).
- 2 Install water trap(s) in vertical position.



Patient mode: »**Adults**« 42kg plus

- 1 Attach circuit support arm to the rail on the left-hand side of the ventilator and tighten screws.
 - Connect ventilator circuit segments of appropriate lengths (lengths suggested are in meters).
- 2 Install water trap(s) in vertical position if using circuit with them
- 3 Connect Y-piece, with the rubber sleeve of the Y-piece on the inspiratory side (reusable silicone circuit).

**Operating Concept
Control Panel**

Its main elements are:

1 A large screen with all the information and controls needed for ventilation.

2 **Fixed function keys** ("hard" keys) major on-screen functions,

» **Alarm Silence**« for silencing the audible alarm for two minutes.

» **Alarm Limits**« for adjusting alarm limits.

» **Ventilator Settings**« for setting ventilation mode and parameters.

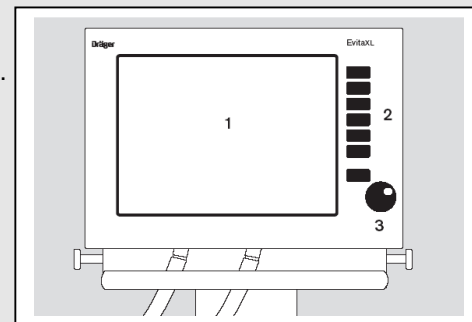
Unassigned key for future functions.

» **Sensor Parameter**« for calibrating sensors.activating/deactivating monitoring

» **System Setup**« for configuring system functions.

» **Start/Standby**« for selecting standby mode or normal operation.

3 Central rotary dial knob for selecting, confirming settings on-screen.

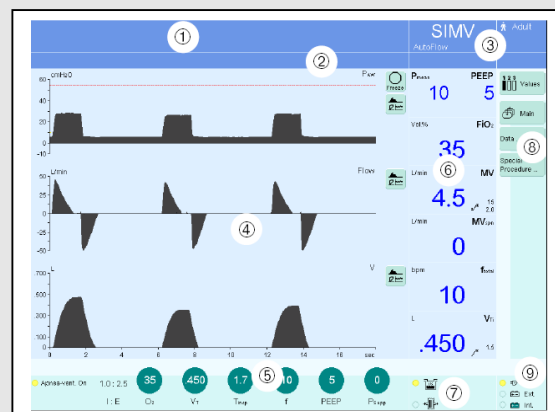


The Screen...

- 1 Alarm messages
- 2 Operator prompts
 - Therapy status with ventilation mode, e.g. SIMV,
 - Patient mode, e.g. "Adult" for adults.
- 4 Waveforms, loops, and trends visualizing ventilation,
- 5 Presentation of set ventilation parameters
- 6 Essential, measured values of ventilation
- 7 Humidification type and status.
- 8 Touch-sensitive screen keys for the specific screen pages
- 9 Power supply indicator.

To select a screen page:

- Touch the respective screen key:
- **Main**« to select the main screen.
- **Values**« to select a different group of measured values in the field for numerical values.
- »**Data...**« to display all measured values, the logbook or trends on an additional screen
- »**Special Procedure...**« nebulization, O2 for suction



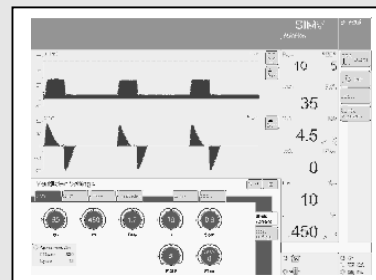


To set the ventilation mode, ventilation parameters:

- 1 Press **Ventilator Settings** or
 - touch one of the virtual screen knobs at the bottom of the screen.

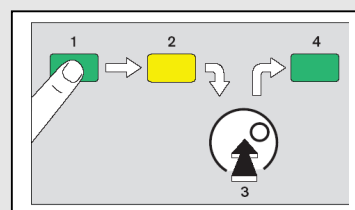


- »**Ventilator Settings**« in the bottom part of the screen
- Screen knobs and screen keys are displayed in the form of horizontal and vertical tabs as on a file catalog card.
 - Horizontal screen keys for the ventilation mode.
 - Vertical screen keys for selecting supplemental settings.



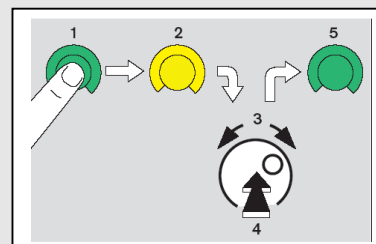
Screen keys:

- 1 Touch a screen key to select it.
- 2 The screen key turns yellow.
- 3 Press dial knob to confirm.
- 4 The screen key turns pale/dark green, respectively.



Screen knobs:

- 1 Touch a screen knob to select it.
- 2 The screen knob turns yellow.
- 3 Turn dial knob to set.
- 4 Press dial knob to confirm.
- 5 The screen knob turns pale/dark green, respectively.



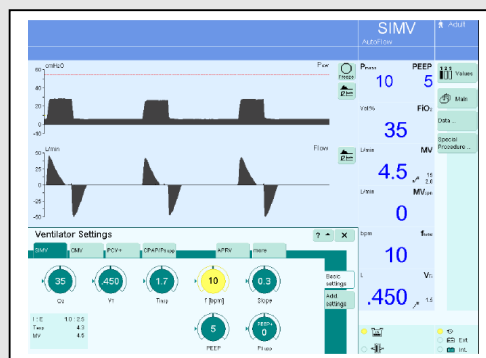
To set ventilation parameters directly:

From the main screen

- ☞ Touch the desired screen knob
 - displays the »**Ventilator Settings**« menu.
 - The selected screen knob is already yellow and be adjusted
 - Turn dial knob to adjust setting, press dial knob to confirm.
 - The color of the screen knob changes dark green – the setting is now in effect.
- To call up additional information texts:

- ☞ Touch »? q« screen key.
- To quit the menu:
 - ☞ Press »X« screen key.

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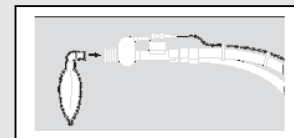


Checks of Readiness for Operation

- To be performed **before using on a patient**, to confirm ventilator is working properly, ready for operation.
- If the patient circuit is modified, the patient circuit leak test must be repeated.

1 Preparing the adult test lung 84 03 201

The test lung assembly consists elbow connector, a 7 mm diameter ET-tube connector for simulating airway resistance, 2 liter breathing bag to simulate compliance.



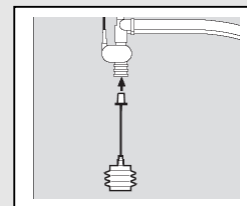
NOTE: Do not use permanently stretched breathing bags, these might cause artifacts

🔗 Insert the elbow connector into the Y-piece only when EvitaXL advises you to do so.

2 Preparing the infant test lung 84 09 742

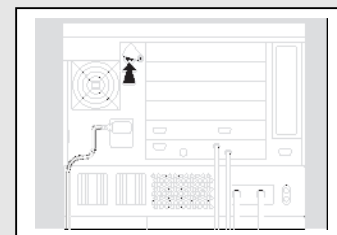
for use with the infant patient circuit:

The test lung consists of a tracheal tube CH 12 to simulate airway resistance and a small bellow to simulate compliance.



3 To switch ventilator ON, flip protective cover* up and press

- The self-test screen is now displayed on EvitaXL.
- The self-test is performed automatically.
- Wait for this test phase to be completed.



- Touch »Standby« and press dial knob to confirm.
- **Standby activated !!!** appears in the line for alarm messages.
- To reset this message: Touch »Alarm Reset« screen
- Touch dial knob and confirm

- Touch »Device Check« screen key:

🔗 Touch »Check« screen key.

NOTE: No device check is possible while the ventilator is performing a calibration of the flow or O2 sensor. In this case, wait until calibration has been completed and restart device check.





The following **tests** are performed during the device check:

- System
 - Expiratory valve fit and throughput
 - Fit of flow sensor
 - Fit of neonatal flow sensor (for "NeoFlow" option)
 - Type of humidifier
 - Completeness of patient hoses
 - Fit of temperature sensor
 - Function
 - Test of Air-O₂-switch over valve
 - Test of safety relief valve
 - Check of gas supply pressure
 - Test of Back-up alarm
 - Sensors
 - Flow sensor calibration
 - Calibration of neonatal flow sensor (for "NeoFlow" option)
 - O₂ sensor calibration
 - CO₂ sensor zeroed
 - CO₂ sensor calibration
 - Patient circuit leak test
- Questions are displayed and must be answered by touching screen keys »Yes« and »No«.
 - Instructions for performing tests may also be displayed.
 - The ventilator indicates a correct result with a checkmark (✓).
 - Faulty results are marked **F**. Two dashes (--) appear if a test is not performed.
 - In the event of deficient results (F):⌘ Eliminate the cause, touch the »Repeat« screen key.

Leak Test

Perform this test:

- after the tests of readiness for operation,
- after changing the patient circuit,
- after changing the humidifier.

In the checklist:

- ⌘ Touch »**Airtight Check**« screen key.
- The result of the last leak test is following values:

- Leakage
- Compliance
- Insp. resistance
- Exp. resistance



- ⌘ Touch »**Check**« screen key.

- The actual leakage flow is displayed throughout the test.
- A leakage flow of 300 mL/min at pressure of 60 cmH₂O is acceptable.
- After the leak test, the ventilator determines the compliance and the inspiratory and expiratory resistance of the patient circuit.

To return to the start screen:

- ⌘ Touch »**Start/Standby**« screen key in the »**Start/Standby**« menu.