

Function check for MEDUMAT Standard a

Please read the exact description of the function check in the instructions for use.

Check the airtightness of the system

1. Open the valve on the oxygen cylinder and then close it.
2. Requirement: No loss of pressure within one minute.

Check the patient valve, reusable

Unscrew the patient valve and make a visual check for mechanical damage. Cracked, broken or wavy parts must be replaced! **(During assembly, pay attention to the correct placement of the membrane lip!)**

Check the ventilation frequency

1. Setting: Frequency: 8 min⁻¹, MV: 5 l/min, P_{max}: 60 mbar, Air Mix.
2. Requirement: Frequency between 7 and 9 within one minute.
3. Setting: Frequency 40 min⁻¹.
4. Requirement: Frequency between 38 and 42 within one minute.

Check the breath volume

1. Connect the test bag to the test set adapter WM 15382.
2. Setting: Frequency: 8 min⁻¹, MV: 8 l/min, P_{max}: 60 mbar, No Air Mix.
3. Requirement: Complete inflation of the test bag during inspiration. Simulate expiration thrust by hand.
4. Disconnect test bag, close patient connection by hand.
5. Setting: Frequency: 30 min⁻¹, MV: 3 l/min, P_{max}: 60 mbar, No Air Mix.
6. Requirement: "Stenosis" alarm when patient valve closed by hand.

Check the assisted ventilation

1. Connect the test bag to the test set adapter WM 15382.
2. Setting: Frequency: 8 min⁻¹, MV: 8 l/min, P_{max}: 60 mbar, Air Mix, switch on Assist.
3. Requirement: After 2 inspiration phases the yellow No Assist LED flashes. The acoustic alarm comes on only after 1 minute. Simulate inspiration pulses with one hand. The yellow LED No Assist goes out.

Check the maximum ventilation pressure

1. Connect the test bag to the test set adapter WM 15382.
2. Setting 20 mbar: Frequency: 8 min⁻¹, MV: 7 l/min, P_{max}: 20 mbar, No Air Mix.
3. Requirement: Switch from inspiration to expiration between 15 and 25 mbar and trigger the stenosis alarm. Don't assist the expiration thrust!
4. Setting 60 mbar: Frequency: 8 min⁻¹, MV: 9 l/min, P_{max}: 60 mbar, No Air Mix.
5. Requirement: Switch from inspiration to expiration between 55 and 65 mbar and trigger the stenosis alarm. Don't assist the expiration thrust!

Check the alarms

Stenosis

1. Set the respiration pressure control at 60 mbar and with your hand, hold the respiration connection on the patient valve closed.
2. Requirement: The stenosis alarm sounds after two inspiration thrusts.

Respiration system interruption

1. Hold open the respiration connection.
2. Requirement: "Disconnection" alarm sounds after two inspiration thrusts.

Decrease in the Oxygen supply pressure

1. While the MEDUMAT is turned on, close the oxygen cylinder.
2. Requirement: Alarm "<2.7 bar O₂" after the decrease in the oxygen supply pressure.