

50 LITERS OXYGEN GIVING SET

User Manual and Instructions for Use



50 Liters oxygen giving set – assembled view

Important Safety Notice

This manual is intended to support safe setup and use of the oxygen giving set by trained personnel. Oxygen therapy must be administered according to the vessel medical procedures, applicable flag requirements, and medical/telemedical advice. In an emergency, seek medical assistance immediately.

Contents

- Product description
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1. Product Description

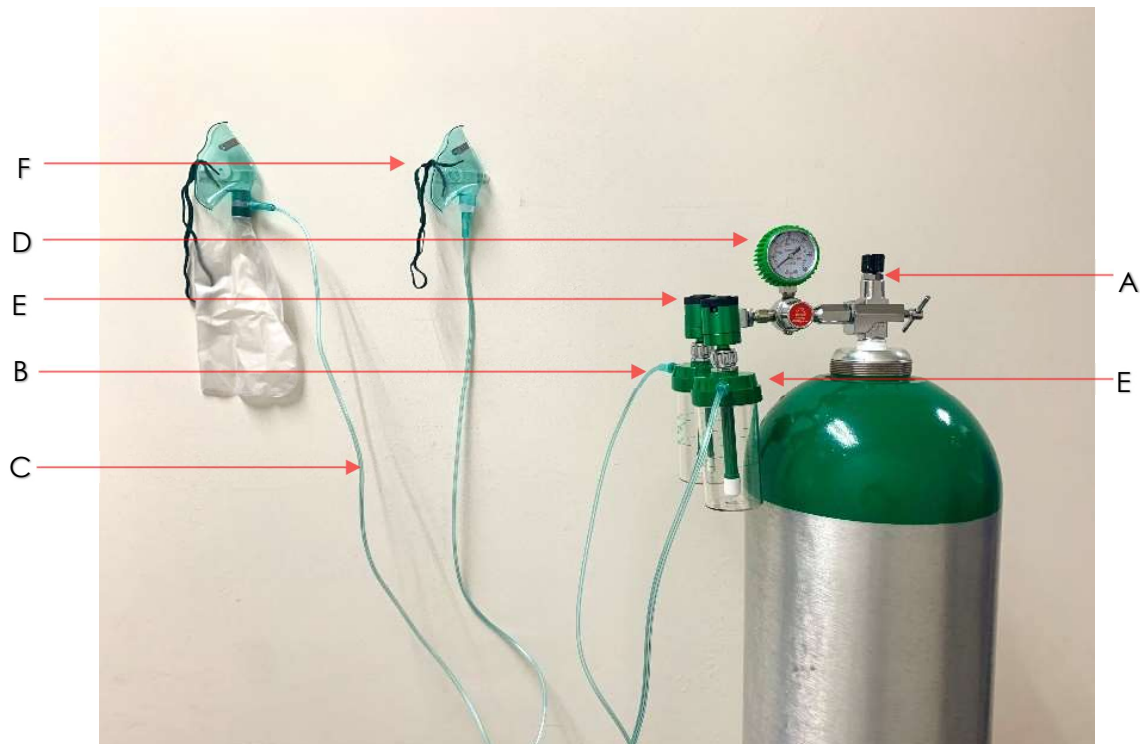
The 50 liters oxygen giving set is supplied for emergency oxygen administration onboard vessels and other approved maritime applications. The set includes a 50 liters medical cylinder, trolley, oxygen masks, humidifier, oxygen tubing, and sterile water as applicable.

A 50 liters, 200 bar oxygen cylinder contains approximately 10,000 gaseous liters of medical oxygen. Actual use duration depends on the cylinder pressure and the selected oxygen flow rate.

Use Restriction

This equipment should be used only by trained personnel and in accordance with the medical guide, applicable flag requirements, and medical/telemedical instructions.

2. Main Components



Ref	Description
A	Cylinder valve – on/off
B	Oxygen tubing Outlet
C	Oxygen tubing
D	Manometer / pressure gauge
E	Flow indicator / flow setting window
F	Simple oxygen mask
G	Humidifier bottle

3. Technical Data

	Specification
Cylinder capacity	50 liters
Cylinder pressure	200 bar
Approximate gaseous oxygen content	10,000 liters
Flow range	0 to 15 LPM
Flow settings	0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12 and 15 LPM
Connection	CGA 870 pin-index connection
Working pressure range	300 to 4,000 psi
Maximum inlet pressure	4,000 psi
Outlet pressure	50 psi

4. Safety Precautions

Oxygen Fire Risk

Never use oil or grease on any oxygen equipment. Keep the cylinder and regulator away from flames, sparks, smoking areas, heat sources, and flammable materials.

- Use only equipment and accessories supplied or approved for medical oxygen service.
- Do not use the regulator if oil, grease, dirt, or visible damage is found.
- Ensure the cylinder is secured upright and cannot fall during use or storage.
- Open the cylinder valve slowly. Do not stand directly in front of or behind the regulator when opening the valve.
- Do not attempt to repair the cylinder, valve regulator, pressure gauge, or flow meter onboard. Contact the supplier or a qualified service representative.
- If a leak is suspected. Close the cylinder valve, release pressure safely, and remove the set from service until checked.
- Replace or exchange the cylinder when the pressure falls below 300 psi.
- Close the cylinder valve and return the flow setting to zero after use.

5. Oxygen Flow Control Regulator

The oxygen flow control regulator is a pressure-reducing device. It lowers the high pressure from the oxygen cylinder to a controlled pressure and flow level suitable for oxygen administration.

The regulator is intended for administration of supplemental oxygen to patients who require increased oxygen concentration to support breathing. Certain models may also be used during emergency response, subject to training and medical guidance.



Oxygen regulator – 200 bar, two outlet, pin-index



Oxygen flow control regulator components

6. Set-Up Instructions

Before connecting the regulator, inspect the cylinder and regulator carefully. Ensure all components are clean, dry, and free from oil or grease.

Confirm that the sealing washer is in place on the regulator inlet.

Step 1



Remove the flow meter/regulator from the packaging.

Step 2



Inspect the regulator and check that it is clean and undamaged.

Step 3



Connect the humidifier bottle to the regulator.

Step 4



Tighten the humidifier securely by hand

Step 5



Ensure the flow setting is at zero before connecting to the cylinder.

Step 6



Check the regulator, pressure gauge, and outlet connections.

Cylinder Connection Steps

Step 7



Please the cylinder securely in position.

Step 8



Remove the protective cylinder cover/cap.

Step 9



Fit the yoke over the cylinder post and align the pins with the valve holes.

Step 10



Turn the handle clockwise until the screw point is seated and secure.

Step 11



Open the cylinder valve slowly by turning counter-clockwise

Step 12



Connect the oxygen mask and tubing to the oxygen outlet.

7. Operating Instructions

1. Confirm that the regulator flow knob is in the OFF or "0" position.
2. For safety, do not stand directly in front of or behind the regulator when opening the cylinder valve.
3. Slowly open the cylinder valve by approximately one full turn.
4. Check the pressure gauge and confirm that sufficient pressure is available.
5. If a hissing sound is heard, there may be a leak. Close the cylinder valve, release pressure from the regulator, re-check the connection, and retighten if required. If the leak continues, remove the set from service and contact a service representative.
6. Adjust the flow rate by tuning the flow control knob until the prescribed or required setting appears in the flow window.
7. Place the mask correctly on the patient according to the type of mask being used.
8. Monitor the patient, cylinder pressure, and oxygen flow during use.
9. After use, close the cylinder valve, allow pressure to bleed down safely, return the flow setting to zero, and store the set securely.

8. Oxygen Humidifier – Instruction for use



*Humidifier bottle with minimum
and maximum water levels*

1. Wash the humidifier bottle with soap and water. Rinse with a diluted vinegar solution (1 part vinegar to 10 parts water), then rinse with hot water.
2. Unscrew the lid and add sterile water up to the maximum level marking on the bottle. Do not overfill.
3. Replace the lid and ensure it is screw on tightly.
4. Attach the humidifier to the oxygen regulator.
5. Attach the oxygen tubing to the outlet ports.
6. Change the water daily. Store the remaining sterile water in the refrigerator after opening and discard if 30 days after first opening.

Humidifier Safety

Use sterile water only. Do not use the humidifier if the bottle, cap, or outlet connector is cracked, damaged, contaminated, or leaking.

9. Oxygen Administration Guidance

Supplemental oxygen may be required when a person has difficulty breathing, reduced oxygen levels, serious injury, sudden illness, or other emergency conditions. The normal concentration of oxygen in air is approximately 21%. Supplemental oxygen provides a higher oxygen concentration to support the patient until medical assistance is available.

A resuscitation mask or appropriate oxygen delivery device can help create an oxygen enriched environment for the patient. A resuscitation mask may deliver approximately 50% oxygen to a breathing person when oxygen is supplied at 6LPM or more. Higher flow rates may deliver higher oxygen concentrations depending on the device use, patient condition, and mask fit.

Possible Indications for Oxygen Therapy

- Resuscitation or emergency response
- Initial response to major trauma
- Lung problem causing shortness of breath
- Cardiac problems, chest pain, or suspected heart attack
- Shock due to any cause, including anaphylaxis or sepsis
- Unconsciousness due to any cause
- Convulsions or fitting
- Suspected stroke
- Suspected carbon monoxide poisoning
- Diving accidents

Signs and Symptoms of Possible Hypoxia

- Increased breathing or difficulty breathing
- Increased heart rate
- Bluish skin or lips (cyanosis)
- Restlessness, confusion, or reduced level of consciousness
- Chest pain or severe discomfort



Medium concentration oxygen mask

10. Contents of the 50 Liters Oxygen Giving Set

No.	Description	Quantity
1	50 litres oxygen cylinder pin-index valve	1 unit
2	Oxygen regulator, 200 bar, 2-outlet pin index (CGA 870)	1 unit
3	Oxygen mask, medium concentration 60%, adult large	2 units

11. Cylinder and Trolley Dimensions



50 liters oxygen cylinder

Item	Dimensions	Weight
Cylinder	183cm (H) x 22 cm (D)	67 kg

12. Final Setety Reminder

Important

Never use oil or grease in connection with oxygen equipment. Oxygen can casued reapid fire spread and serious injfur if handle incorrcly.