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Emergency Response Oxygen Supply Unit Instructions

BOC: Living healthcare

Emergency Response Oxygen Supply Unit Instructions

If you have any questions or queries on the EROS unit please contact BOC Healthcare on 0845 850 1892

Before use

Before you connect the outlet hose ensure you have enough consumables to use this product, such as tubing and masks.

It is the end users responsibility to ensure they have enough consumables for the use of the unit.

The unit should only be used by qualified personnel trained in the use of oxygen administration and gas safety. Please refer to BOC instructions for integral valve cylinders.

If you require training on gas safety please contact 0845 850 1892 or email training@boc.com

Cleaning instructions

The trolley can be cleaned with a damp cloth. Please note customers are responsible for cleaning and disinfecting any soiled cylinders. If a cylinder is visibly soiled you are advised to do the following:

1. Wash the cylinder down with clean warm water (max temperature of 50 °C) to remove soiling.
2. Disinfect the cylinder with cleaning material approved by BOC (Sanosil) or alcohol wipes 70% alcohol.
3. Place cylinder in a contaminated cylinder bag (available from BOC) and subsequently return to BOC.

Storage conditions

During storage, periodically check the gauges to ensure the cylinders are full and check the expiry date on the batch label attached to the cylinder.

The unit should be stored in an adequately ventilated area.

Procedure for Using the EROS Unit

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

Instructions

- Follow the before use instructions for all units that are to be used
- Position all units in the location of patient supply
- Apply wheel brakes (figure 1)

Each changeover unit has 5 white hoses for connection. Four hoses are inlets from the gas cylinders. Each one of these four hoses connects to an Integral valve cylinder (ZX type). One hose is the outlet supply to patients and is connected via the central Schrader valve. There are 2 NIST connections (non-interchangeable screw thread) each side of the central gas supply hose (figure 2).

There is a long hose and a short hose to be connected to each bank. Ensure the long and short hose for bank 1 cylinders are connected to the left hand side NIST connections. Ensure the long and short hose for bank 2 cylinders are connected to the right hand side NIST connections.

- Check the cylinders are the correct gas for use (oxygen) and that they have not passed their expiry date (shown by a batch test label on the cylinder) (figure 3)
- Also check the cylinder gauge to ensure the cylinders are full (figure 4)
- Open the hinged cover on the cylinder to reveal the outlet (figure 5)

Figure 6

Figure 7

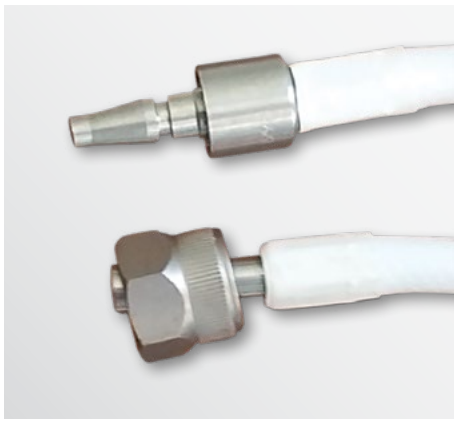

Figure 8

Figure 9

Figure 10

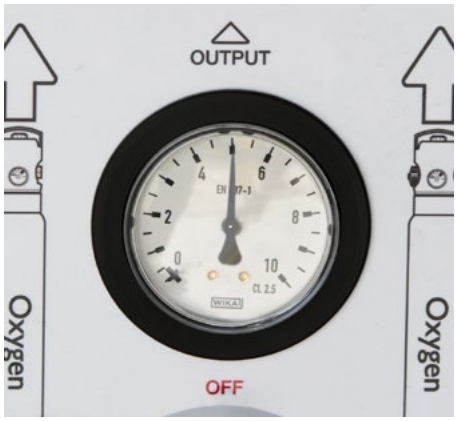

Figure 11

→ The inlet hose to the EROS unit is connected to the oxygen cylinders via the Schrader valve (figure 6)
→ Ensure the red changeover valve lever is in the central (off) position, before connecting any cylinders (figure 7)
→ Then connect the outlet hose to your distribution equipment. There are 2 outlet hoses available with BS5682 remote probes. One is a male NIST and nut and the other is a quick connect probe (figure 8)

Once you have connected your distribution equipment

→ Open the ZX cylinder valves (figure 9)
→ You should hear and feel gas pressuring the system
→ Wait for a short period to ensure the system remains stable and no leaks are apparent

Any leaks will be indicated by a hissing sound. If you hear a leak the source of the leak needs to be identified. We would recommend the use of a leak detection spray.

→ Now open the red changeover valve by turning the lever fully to the left (figure 10)
→ Now, listen for leaks. Any leaks would be detected by a hissing sound. If any new leaks appear please check the connection where the outlet hose is connected to the Schrader valve and work downstream through the rest of the equipment. We would recommend the use of a leak detection spray.
→ Check the pressure gauge on the changeover unit has risen and is indicating at least 4 bar (figure 11)

You are now using the gas from the 2 cylinders on Bank 1.

→ Connect your flow devices into your distribution equipment and use the system

During this time, the units need constant monitoring of the cylinder and unit pressure gauges by the designated person(s) responsible for the unit.

Figure 12

Figure 13

Figure 14

→ Once both cylinders on Bank 1 of the unit drop into the red section on the cylinder contents gauge (figure 12) then the control lever will need switching over to Bank 2. Allow both cylinders to drop into the red before swapping over to Bank 2, unless the unit outlet pressure starts to drop in which case swap over at this point (figure 13).

Once Bank 2 is in operation, the depleted cylinders of Bank 1 can be turned off and swapped for full cylinders. We advise to have the spares ready in a safe location nearby.

The above procedure for monitoring and changing cylinders should be repeated until the system is no longer required.

When disconnecting the units ensure that all cylinders are turned off first and the control lever is in the off position (figure 14).

Each kit will need discharging of any remaining gas in the system, this can be done by slowly moving the control lever to the **cylinder bank 1** position and then to **cylinder bank 2** position ensuring all gas is discharged. This needs to be done in a safe place with the outlet hose held securely and pointing away from harm, towards the ground.

The depleted cylinders can be replaced with full ones and the units can be returned to their storage point for future use or delivery vehicle ready for transportation.

Notes

Notes

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