OXI-pro®

Oxygen Resuscitation Kit
Part No. RS-7565-00

Operating Manual

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Revision 2 (Jan 2014)

TABLE OF CONTENTS

1 Disclaimer

This manual includes details of the design, operation and maintenance of the *OXI-pro® Oxygen Resuscitation Kit.* It is not a training manual for resuscitation and/or oxygen administration and must not be used as a substitute for such training. Medical Developments International Limited makes no claim that the information, practices and procedures given in this manual will warrant correct or adequate treatment.

2 Components of the OXI-pro® Oxygen Resuscitator

☐ Soft carrying case with shoulder harness and pockets for the accessories.
☐ KDK1500 OXI-flo® - combined regulator/flowmeter incorporating unique 'Oxygen Flush'
☐ Bag Valve Mask (BVM) Resuscitator Kit - Adult
☐ Oxygen therapy mask with reservoir bag - Adult (Single patient use)
☐ Oxygen therapy mask - Child (Single patient use)
☐ CPR Pro Pocket Mask
☐ Cylinder valve key wheel with chain
☐ Bodok Seal (Spare)
☐ 'New Century First Aid' booklet (Optional)
☐ Operating Manual

Does not include oxygen cylinder

3 KDK1500 OXI-Flo® Regulator/Flowmeter

The KDK1500 OXI-flo® reduces the cylinder pressure to 400kPa. When the oxygen cylinder is turned on the flow rate settings are: 0, 1, 3, 4, 6, 8 and 15 L/min. Unique 'OXYGEN FLUSH' control is incorporated. The yoke is pin-indexed for oxygen (Australian Standard AS 2473.3). A pressure gauge indicates the contents of the supply cylinder. On request a self-seal outlet can be fitted; this is used to connect to an external oxygen supply cylinder or a wall outlet. The oxygen therapy hose connects the flow outlet (barbed nipple) of the KDK1500 OXI-flo® to the oxygen therapy mask, the Bag Valve Mask Resuscitator or the CPR Pro Pocket Mask.

4 Oxygen Supply

The recommended 'C' size medical oxygen cylinder contains approximately 440 litres when full. When using the Bag Valve Mask Resuscitator, a maximum flow rate of 8 L/min is recommended; use the OXYGEN FLUSH to top up the reservoir

bag as necessary. This technique substantially increases the duration of the supply of oxygen.

5   Catalogue Number

RS-7565-00 OXI-pro® Oxygen Resuscitation Kit

6   Reference

Oxer HF. *Simply Add Oxygen. Why isn't oxygen administration taught in all resuscitation training*? Resuscitation 43 2000 Feb, 43 (3): 163-169

7   Operation of the OXI-pro® Resuscitation Kit

7.1 Precautions

- ☐ Oxygen readily supports combustion. Do not use near an open flame.
- ☐ Do not smoke while using the unit.
- ☐ Ensure the area is ventilated and nothing is burning in the immediate vicinity.
- ☐ Oil or grease must not be used on any part of the OXI-pro® Resuscitation Kit.

7.2 Installation

- ☐ Fit the KDK1500 OXI-flo® to a 'C' size medical oxygen cylinder and tighten.
- ☐ Use the oxygen keywheel supplied to SLOWLY turn the cylinder valve ON at least one full turn (anti-clockwise). Check the contents gauge.
- ☐ If there is a leak, check that the sealing washer ('Bodok' seal) is in place.
- ☐ Ensure the therapy hose is firmly attached to the flow outlet of the KDK1500 OXI-flo®.
- ☐ Check that the CPR Pro Pocket Mask and therapy mask are in the pockets.
- ☐ Secure the oxygen bottle using Velcro strap and buckle.

7.3 Spontaneously Breathing Patient

Use the therapy mask fitted with a reservoir bag *

- ☐ Explain and reassure the patient during the administration of oxygen.
- ☐ Turn the oxygen cylinder ON (anti-clockwise) and set the flow rate to 8 L/min.
- ☐ The oxygen therapy mask supplied is fitted with a reservoir bag.
- ☐ Ensure the oxygen therapy tubing is connected to the therapy mask and

the flow outlet (barbed nipple) of the KDK1500 OXI-flo[®].

☐ Position the therapy mask over the mouth and nose and mould the metal band over the bridge of the nose to achieve a seal and comfortable fit. Place the green elastic band around the patient's head above the ears and adjust until comfortable.

☐ Observe the reservoir bag to ensure it remains inflated. If it deflates, rapidly refill by depressing the 'OXYGEN FLUSH'.

☐ Monitor the patient's condition: DO NOT leave the patient unattended.

☐ Monitor the oxygen supply. Replace the cylinder BEFORE it is completely exhausted.

* In children up to the age of about 8 years, a reservoir bag is not necessary

7.4 Resuscitating the Non-Breathing Patient

7.4.1   Bag Valve Mask Resuscitator (including extension tube)

☐ For full details refer to the Instruction Booklet packed with the Bag Valve Mask Resuscitator.

☐ To conserve oxygen set the flow rate to a maximum of 8 L/min. As necessary, depress the 'Oxygen Flush' from time to time to keep the reservoir bag adequately full.

7.4.2   CPR Pro Pocket Mask

☐ Consider the possibility of spinal injury and take appropriate precautions if necessary.

☐ Attach the oxygen therapy tubing to the CPR Pro Pocket Mask and the flow outlet of the KDK1500 OXI-flo[®].

☐ Position the CPR Pro Pocket Mask over the mouth and nose, with the narrow end over the nose, ensuring the best seal possible.

☐ With the operator positioned behind the patient's head, support the jaw and tilt the head back firmly. If necessary open the airway using jaw thrust.

☐ Using a 'mouth to mask' technique, ventilate the patient about 12-14 times per minute in an adult, 20 times per minute in a child.

☐ When spontaneous breathing returns, turn the patient onto the side. Keep the CPR Pro Pocket Mask in position or change to an oxygen therapy mask.

8 Cleaning, Disassembly and Decontamination

- ☐ Carrying case: most scuffs and stains can be removed with a non-abrasive household cleaner and a sponge.
- ☐ KDK1500 OXI-flo® may be wiped clean, using soap and water. Do not immerse.
- ☐ Face masks: The oxygen therapy mask and CPR Pro Pocket Mask are single patient use and should be discarded after use.
- ☐ Oxygen tubing: Discard after use. Re-attach a new oxygen tube to the flow outlet of the KDK1500 OXI-flo®.

9 Storage and Servicing

- ☐ Ensure the cylinder is full or near full and turned OFF. Check the KDK1500 OXI-flo® is depressurized; the gauge reading must be zero.
- ☐ **Store the OXI-pro® in a clean, dry and well-ventilated area, away from sources of heat and combustible materials. Never allow oil, grease or flammable substances to come into contact with the equipment.**
- ☐ Regularly check the contents of the cylinder and functioning of the equipment to ensure proper performance. The frequency of testing should be established according to usage, but at least every two (2) months.
- ☐ An authorized service centre should check the KDK1500 OXI-flo® every five (5) years. Contact Medical Developments International Limited for your nearest centre.
- ☐ Ensure the cylinder is currently within the 10-year test period. The date is stamped on the neck of the cylinder.

10 OXI-pro® Specifications

W: 150 mm, H: 560 mm, D: 170 mm
Weight including cylinder: approximately 6.3 kg

11 Packing List

Soft carrying case with shoulder harness and pockets for the accessories.
- ☐ KDK1500 OXI-flo® - combined regulator/flowmeter incorporating unique 'Oxygen Flush'
- ☐ Bag Valve Mask (BVM) Resuscitator Kit - Adult
- ☐ Oxygen therapy mask with reservoir bag - Adult (Single patient use)
- ☐ Oxygen therapy mask - Child (Single patient use)

☐   CPR Pro Pocket Mask

☐   Cylinder valve key wheel with chain

☐   Bodok Seal (Spare)

☐   'New Century First Aid' booklet (Optional)

☐   OXI-pro® Oxygen Resuscitation Kit Operating Manual

12   Spare Parts

AC-7595-10   Oxygen therapy mask – Child (Single patient use)

AC-7595-16   Oxygen therapy mask with tubing – Adult (Optional)

AC-7595-17   Oxygen therapy mask with reservoir bag – Adult (Single patient use)

AC-CPR-PRO   CPR Pro Pocket Mask

AC-ACC-06   Oxygen therapy tubing - Straight 5 mm

AC-ACC-07   Oxygen therapy tubing - Bubble 5 mm

CY-7580-35   Oxygen cylinder key wheel & chain

ST-NDS/149   Bodok Seal (sealing washer)

13 Warranty

Medical Developments International Limited (MDI) warrants to the original purchaser that any part or parts, which on examination by MDI, prove to be defective within 24 months from the date of delivery to the original purchaser, will be replaced free of charge. This warranty does not include freight costs, consumables, plastic and perishable items. MDI will not be responsible for labour or transportation charges incidental to the replacement of any part or parts. This warranty is in lieu of all other warranties, obligations or liabilities expressed or implied. MDI neither assume nor authorize any other person to assume liability in connection with the sale. This warranty will not apply to any product that has been subject to accident, abuse or misuse. The warranty is not applicable when unauthorized repairs or modifications have been attempted, or when entire units or parts are damaged by accident, misuse or improper handling procedures.

When returning the product under warranty, please include the following details:

Manufactured by: **MEDICAL DEVELOPMENTS INTERNATIONAL LIMITED**
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Purchaser:…….

Address:…….

Post Code:……………………………. Country:……………………………………………………………………………

Model: ……………………………….. Serial No:…………………… Date of Purchase:………………………………

Invoice No:…………………………..   Supplier:………………………………………………………………………………