

Your  
*home* **OXYGEN**  
*service*

*Your guide to equipment  
for children and babies*



**Homecare Helpline**

**0800 373 580**

Office hours: 8.00 am to 5.30 pm (Monday-Friday)

Open 24 hours for urgent calls only

## About your equipment

To be completed by your Air Products technician. Please refer to this page when reordering accessories or speaking to our Homecare Helpline.

<b>Date of first installation</b>	
<b>Technician's name</b>	
<b>Flow rate</b>	

<b>Concentrator</b>	<b>Model name/ref</b>	<b>No.</b>
	AirSep Newlife Elite Locked on 3 or 5 lpm ( <i>circle</i> )	
	AirSep Intensity	
	Respironics Millennium	
	Respironics Millennium Standard	
	DeVilbiss	
<b>Concentrator serial number:</b>		
<b>Cylinders</b>	<b>Model name/ref</b>	<b>No.</b>
<b>Back up cylinder</b>	B10 Paediatric	
<b>Portable cylinder</b>	Freedom® Type: .....	
<b>Liquid Oxygen</b>	<b>Model name/ref</b>	<b>No.</b>
<b>LOX dewar</b>	Caire Low Loss	
<b>LOX portable unit</b>	Marathon	
	Spirit 600	
	Companion 1000	
	Companion T	
	Other: .....	
<b>Accessories</b>	<b>Model name/ref</b>	<b>No.</b>
<b>Mask</b>	Ventimask Barrel type: ..... %	
	MC Mask	
	Tracheotomy mask Barrel type: ..... %	
<b>Cannula</b>	Type code: .....	
<b>Conserver</b>		
<b>Coiled tube, clamp and connector</b>		
<b>Portable bag</b>		



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## Oxygen therapy for children and babies

If you care for a child or baby who needs oxygen therapy as part of their respiratory care, there are a number of important things you should know.

This booklet tells you more about how to use and maintain the equipment you have been provided. It also gives you some important safety advice.

You should also read *Your guide to using your oxygen equipment* for more general instructions.

### **Caution**

It is very important to use oxygen at the flow rate that has been prescribed. Never increase or decrease the flow without first consulting your child's doctor.



## How to use your low-flow concentrator

Before using your concentrator you should first become familiar with the component parts. Refer to pages 6 and 7 of *Your guide to using your oxygen equipment*.

1. The flow rate will be set to the prescribed flow by your Air Products technician. Any further adjustments should only be undertaken on the recommendation of your doctor.

**On** – Press button up to turn On [I].

**Off** – Press button down to turn Off [O].

2. Check the ball in the flowmeter is centred on the line marking the flow rate prescribed.



3. Put the cannula or mask on your child.
4. When not using the device, press the power switch down to the Off [O] position.

### Note

The flow of oxygen is very low. If you are concerned the concentrator is not delivering any oxygen, place the end of the supply hose onto some water and check for bubbles.

Flow rate settings for Millennium Paediatric concentrator:  
0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9 lpm.



## How to use your cylinder and flowmeter

Portable oxygen cylinders are filled with medical oxygen to help you and your child go out and do everyday things. To reduce the flow of oxygen from the cylinder so it is suitable for your child, it has been fitted with a flowmeter – see Fig.1 on page 7. For more information about cylinders refer to page 13 of *Your guide to using your oxygen equipment*.

- 1.** Check that the flowmeter is plugged into the auxiliary socket (C) of your cylinder valve – see Fig.2 on page 7. Once pushed in, gently tug to make sure it does not come away.
- 2.** Attach the oxygen supply tube to the oxygen outlet (D). Ensure tubes are not trapped, trodden on, or kinked in any way as this could restrict the flow.
- 3.** Turn the On/Off valve (E) on your cylinder anticlockwise to the ‘ON’ position.
- 4.** Turn the flowmeter on by slowly turning the flowmeter valve (A) anti-clockwise. Ensure it is set to the prescribed flow rate number. Make sure the number is in the centre of the viewing window (B).
- 5.** Put the cannula or mask on your child.

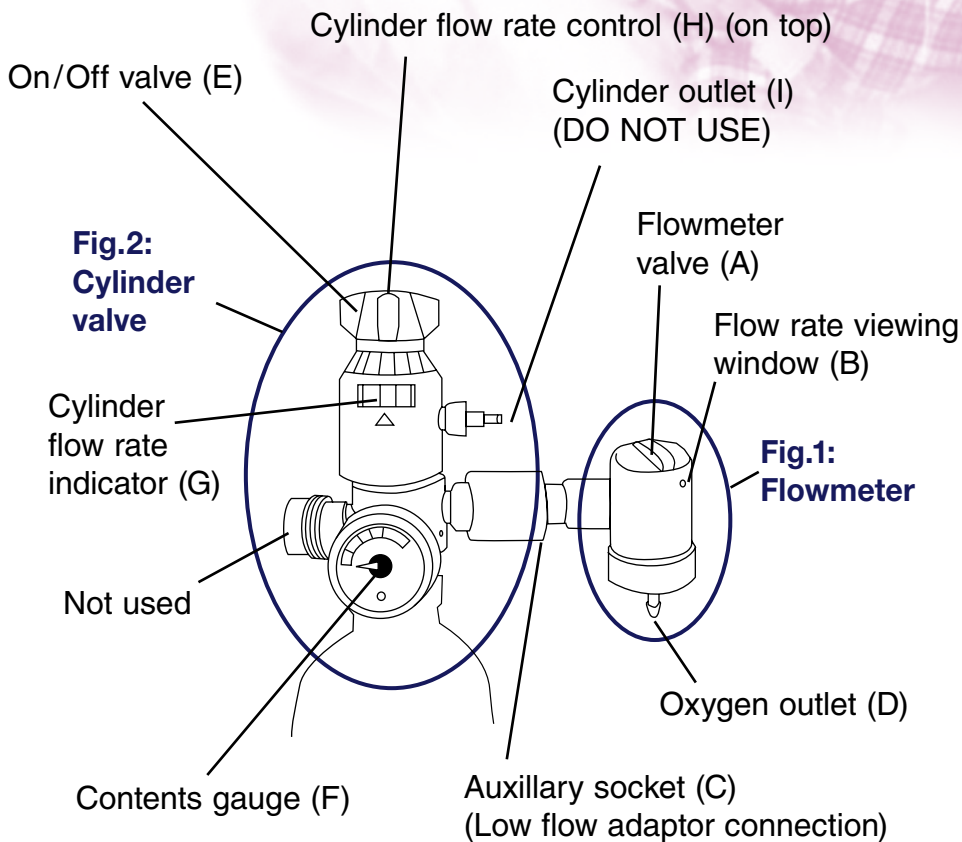


6. Turn the flowmeter off by turning the flowmeter valve (A) clockwise until you see 0 in the viewing window (B). Then turn the On/Off valve (E) clockwise on your cylinder to the 'OFF' position.
  
7. After use, check the remaining oxygen in the cylinder by looking at the cylinder contents gauge (F). Reorder if low.



### **Caution**

The On/Off valve (E) on your cylinder must be set to either the 'ON' position when the flowmeter is in use or the 'OFF' position when not in use. Never adjust the flow rate using cylinder flow rate control (H) as this will cause oxygen to leak from the cylinder outlet (I). Your flow rate should only be set to the prescribed setting on your flowmeter.



 **Caution**

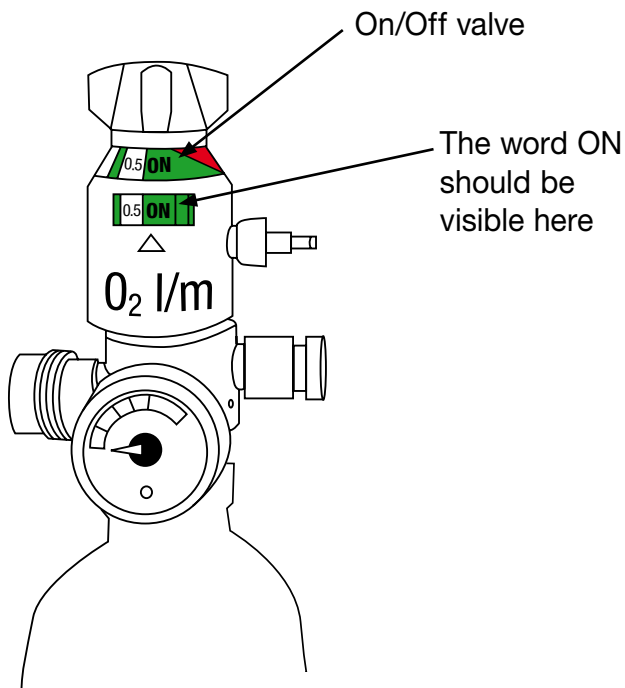
Red indicates empty and your cylinder should be changed immediately.

**Note**

If you need to remove the flowmeter from the cylinder valve, grasp the auxiliary socket (C) and twist slightly clockwise. Then pull the flowmeter gently to remove.

## Important information about using your cylinder

When using either the Freedom® 600 or the B10 cylinder with a flowmeter, always ensure that the On/Off valve on your child's cylinder is set to the 'ON' position during use.



## How to calculate the duration of your cylinder

The following table shows you how long your child's cylinder will last based on the flow rate setting.

### Type of cylinder: Freedom® 600 and micro flowmeter

A high capacity cylinder with a micro-flow device suitable for very young children and babies. (Some cylinders are fitted with a carry handle.)



Flow rate (litres per minute)	Duration
0.01	42 days
0.02	21 days
0.03	14 days
0.04	10 days
0.05	8 days
0.06	7 days
0.07	6 days
0.08	5 days
0.09	4.5 days
0.1	4 days

<b>Weight full</b>	3.5kg (7.7lb)
<b>Height</b>	50.8cm (20ins)
<b>Diameter</b>	10.1cm (4ins)
<b>Capacity</b>	617 litres
<b>Accessories</b>	Bag and trolley available

## Type of cylinder: Freedom® 600 and low flowmeter

A high capacity cylinder with a low-flow device suitable for young children. (Some cylinders are fitted with a carry handle.)

Flow rate (litres per minute)	Duration
0.1	4 days
0.2	2 days
0.3	1 day
0.4	25 hours
0.5	20 hours
0.6	17 hours
0.7	14 hours
0.8	12 hours
0.9	11 hours
1	10 hours



Figures based on 24 hour continuous use.

### Reordering cylinders

Always reorder as soon as your child starts their last cylinder and/or at least 3 **working** days before you need a new one.

**Call 0800 373580 between 8.00 am and 5.30 pm (Mondays to Fridays).**

## Cylinder durations without a flowmeter

Without a flowmeter attached your child's cylinder will last a shorter time, but will deliver higher flow rates.



### Caution

It is very important to use oxygen at the flow rate that has been prescribed. Never increase or decrease the flow without first consulting your child's doctor.



### Type of cylinder: Freedom® 600 without flowmeter

(Some cylinders are fitted with a carry handle.)

Flow rate (litres per minute)	Duration without conserver
0.5	20 hours
0.75	13 hours
1	10 hours
1.5	6 hours
2	5 hours
4	2 hours
6	1 hour 30 mins
9	1 hour
15	41 mins

<b>Weight full</b>	3.2kg (7lb)
<b>Height</b>	50.8cm (20ins)
<b>Diameter</b>	10.1cm (4ins)
<b>Capacity</b>	617 litres
<b>Accessories</b>	Bag and trolley available



## Your back up cylinder and flowmeter

The B10 Paediatric back up cylinder is a large capacity cylinder fitted with a flowmeter to make it suitable for children and babies. It contains more oxygen than a portable cylinder giving additional peace of mind should you need another supply in an emergency.

The cylinder operates in the same way as your portable Freedom® 600 cylinder. Follow the instructions on pages 5-7 of this guide.

### Reordering cylinders

Always ensure your back up cylinder is full. If you use it, reorder immediately. Allow three **working** days for delivery.

**Call 0800 373580 between 8.00am and 5.30pm (Mondays to Fridays).**

**When reordering remember to ask for a B10 Paediatric cylinder.**

## How to calculate the duration of your back up cylinder

### Type of cylinder: B10 Paediatric

The largest cylinder available fitted with a flowmeter to make it suitable as a long lasting backup supply for paediatric patients.

#### Note

The cylinder is white to distinguish it from the standard black B10.

<b>Weight full</b>	15kg (33lb)
<b>Height</b>	71cm (28in)
<b>Diameter</b>	18.2cm (17.1in)
<b>Capacity</b>	2122 litres





The following table shows you how long your child's back up cylinder will last based on the flow rate setting.

<b>Low flowmeter</b>	
<b>Flow rate (litres per minute)</b>	<b>Duration</b>
0.1	14 days 16 hours
0.2	7 days 8 hours
0.3	4 days 21 hours
0.4	3 days 16 hours
0.5	70 hours
0.6	60 hours
0.7	50 hours
0.8	44 hours
0.9	9 hours

<b>Micro flowmeter</b>	
<b>Flow rate (litres per minute)</b>	<b>Duration</b>
0.01	147 days
0.02	73 days
0.03	49 days
0.04	36 days
0.05	29 days
0.06	24 days
0.07	21 days
0.08	18 days
0.09	16 days

Figures based on 24 hours continuous use.

## Caring for your child's mask and cannula

Your child's oxygen mask and cannula are important pieces of equipment.

A cannula can become easily blocked by nasal excretions and mucus. Both masks and cannulae should therefore be kept as clean as possible.

For more instructions on care and cleaning please refer to page 27 of *Your guide to using your oxygen equipment*.





You should also check oxygen tubing daily for any obvious signs of damage such as kinking, flattening or splitting. If you notice any damage, replace the tubing immediately.

It is important to keep spare masks and cannulae to hand at all times. If you are running short, call 0800 373580 and we will send you more by post.



### **Caution**

Take care that tubing does not become trapped e.g. in furniture, doors, babies' cots, infants' high chairs etc. as this will restrict, or even stop, the flow of oxygen.

## Important safety instructions

You should follow all the safety guidelines in *Your guide to using your oxygen equipment* and the separate *Basic Safety* leaflet in your Patient Pack.

Please pay particular care to the following:

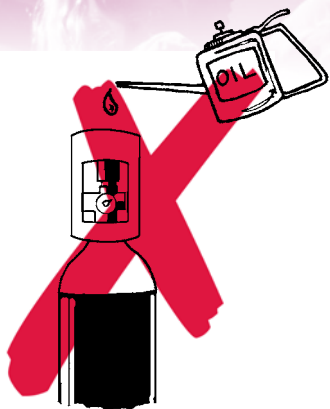
- Materials burn much more vigorously in oxygen than air. Never smoke (or let someone else smoke) while your child or baby is using oxygen equipment.



- All oxygen equipment should be kept well away from naked flames such as gas cookers, open fires and birthday candles.

- Make sure tubing does not become trapped as this will restrict the flow of oxygen. Particular care should be taken with doors, cot frames and high chairs for infants.



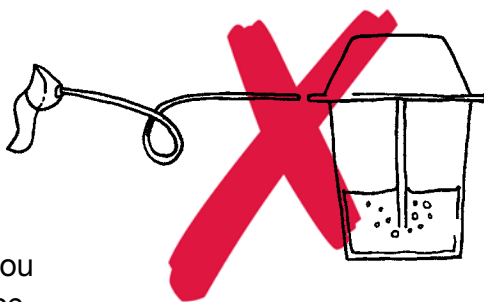


- Do not use grease, fats, oils or Vaseline anywhere near your flowmeter, cylinder or concentrator. To relieve skin irritation you may use water-based gels.

- Where possible keep equipment out of children's reach to prevent them tampering with flowrate settings or On/Off switches.

- Using a humidifier is not recommended when the flow rate is set to below 1 litre per minute.

- It is possible to travel with oxygen cylinders and concentrators if you follow our safety advice.



For more information look at page 12 (concentrators) and page 18 and 19 (cylinders) of *Your guide to using your oxygen equipment*.

- If carrying cylinders on a pushchair always place as low as possible to prevent the pushchair from toppling over.

A faded background image showing a woman and a young child looking at a small device together. The woman is on the left, and the child is on the right, both looking towards the center. The image is semi-transparent and serves as a header for the page.

## Troubleshooting guide

If you encounter problems with your equipment:

- 1.** Refer to the following **Troubleshooting guide** and pages 32 to 37 of *Your guide to using oxygen equipment*. Do not attempt any other maintenance.
- 2.** If you cannot resolve the problem, switch your child to a back-up supply and call us on 0800 373580. Have this guide to hand if possible.
- 3.** If we cannot solve the problem over the phone a technician will visit you as soon as possible.



<b>Problem</b>	<b>Probable cause</b>	<b>Solution</b>
Cylinder/ concentrator is On [I] but oxygen does not flow through cannula.	Blocked cannula.	Follow cleaning instructions on page 27 of <i>Your guide to using your oxygen equipment</i> . If this does not work replace the cannula with a new one immediately.
	Tubing trapped.	Check that the tubing has not become trapped e.g. in a cot frame, high chair etc.
	Cylinder is empty.	Check contents indicator and replace if necessary.
Flow indicator ball moves rapidly; oxygen flow fluctuates.	Cannula outlet blocked.	Check that the end of the cannula is not blocked by the back of the baby's/child's nose. Check flow and reposition cannula.



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**FIRE WARNING:** Do not smoke and ensure your child stays away from naked flames while using oxygen equipment.



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