








British Thoracic Society Guidelines for home oxygen use in adults


Appendix 12 (online only): Home Oxygen Equipment


This appendix contains examples images of oxygen equipment to aid the readers understanding of what devices may look like and/or how they work. Readers need to be aware that the devices available and appearance in this section does not recommend, condone or approve any particular brand over similar devices. Users of the guidelines are recommended to contact their local home oxygen assessment services or oxygen providers for updated information about equipment locally available. Under the terms of the National Framework Agreement, home oxygen providers will select equipment type best suited to the patients’ needs: however, not all providers will provide all the devices.





CYLINDERS	These are examples only and size & weight will vary with the different manufacturers equipment	SIZE	WEIGHT	Capacity
PORTABLE i.e.Freedom 400 or B2		53 cm (20.8 ins) ht: 10cm (3.9 ins) diam	Full 3.2 Kg – 3.7 Kg (7lb – 8lb)	430 litres
i.e.Freedom 300 or B1		43 cm (16.9 ins) ht: 8.5 cm (3.3 ins)	Full 2.1Kg 2.6Kg (4.6lb – 5.7lb)	308 litres
Conserver devices for cylinders				

<p>CONCENTRATORS Standard</p>			<p>68 cm (26.7 in) ht: 38 cm (14.9 ins) width: 28 cm (11 in) depth.</p>	<p>24.5 Kg (54 lb)</p>	<p>N/A</p>
<p>Lightweight/smaller</p>			<p>57 cm (22.4) ht: 34 cm (13.3 ins) width: 28cm (11in) depth.</p>	<p>13Kg (28.6 lb)</p>	<p>N/A</p>
<p>Transportable</p>			<p>49 cm (19.3 in) ht: 31.2 cm (12.3 in) width: 18cm (7 in) depth.</p>	<p>8.1Kg (17.8 lb)</p>	<p>N/A</p>

<p>Portable</p>		<p>31.5 – 24.1 cm (12.4 – 9.5 in ht: 15.2 – 9.9 cm (6 – 3.9 in) width: 29.5 – 27.2 cm (11.6 – 10.7 ins) depth. Depending on model</p>	<p>4.4 – 3.3 Kg (9.7 – 7.25 lb) depending on model</p>	<p>N/A</p>
<p>Homefill</p>		<p>38 cm ht: 51.5 cms width: 40 cm depth.</p>	<p>Concentrator 20.5 Kg Homefill compressor 15 Kg Cylinder weight 1.66 – 2.1 Kg empty</p>	<p>Homefill cylinders 157 – 240 litres</p>
<p>Liquid Oxygen Large LOX Dewar and refillable portable unit</p>				

<p>Portable LOX unites Picture above under B10 cylinder</p>			<p>38 cm ht:</p>	<p>Full 2.5 – 3.9 Kg</p>	<p>516 – 1058 litres</p>
<p>Supplementary equipment Backpack</p>		<p>Fits both standard and lightweight cylinders</p>			

<p>Trolley/Wheeled Cart</p>		<p>Fits both standard and lightweight cylinders</p>		
------------------------------------	---	--	--	--

Oxygen Delivery Devices		Concentration	Flow
Non-rebreathing mask		60% - 80% (variable)	10 – 15 L/min
Medium Concentration Mask		35% - 60% (variable)	5 – 10 L/min
Venturi mask		24% - 60% depending on venturi used (accurate %)	Depends on venturi used: flow stated on barrel
Nasal Cannulae		24% - 60% (variable)	1 L/min – 15L/min depending on nasal cannulae used 1 – 4 L/min 4 – 8 L/min 8 – 15 L/min

Acknowledgement: BTS is grateful to BOC Healthcare and BAREMA for assistance with a number of the images in this appendix. These examples are illustrative and may vary with each provider.