

Oxygen Equipment Guide

For Healthcare Professionals in
Yorkshire and Humberside

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LIVES**



Static Cylinders

Static cylinders hold a large quantity of medical oxygen and are typically used to deliver Short Burst Oxygen Therapy, or as a back up for an oxygen concentrator.

Static Cylinder

B10

Cylinder weight when full

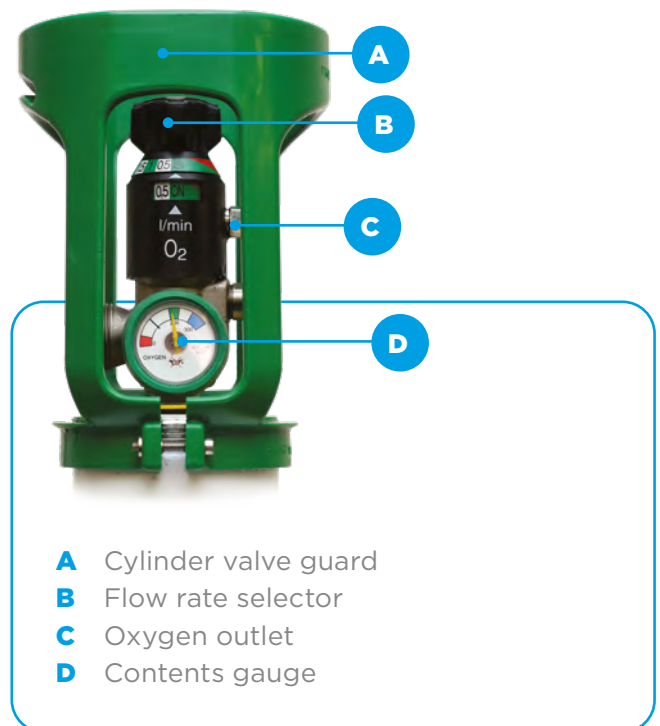
18 kg (39 lb)

B10 durations

Flow rate (lpm)	Duration
0.5	70 hours 44 mins
1	35 hours 22 mins
1.5	23 hours 34 mins
2	17 hours 41 mins
3	11 hours 47 mins
4	8 hours 50 mins
6	5 hours 53 mins
8	4 hours 25 mins
15	2 hours 21 mins

Caution

The cylinder is full when the contents gauge points to the green section. When cold the gauge will drop; this will resolve once the cylinder returns to room temperature. The appearance of the gauge may vary.



Paediatric Static Cylinder

B10p

Cylinder weight when full

18 kg (39 lb)

B10P durations using a micro flow meter

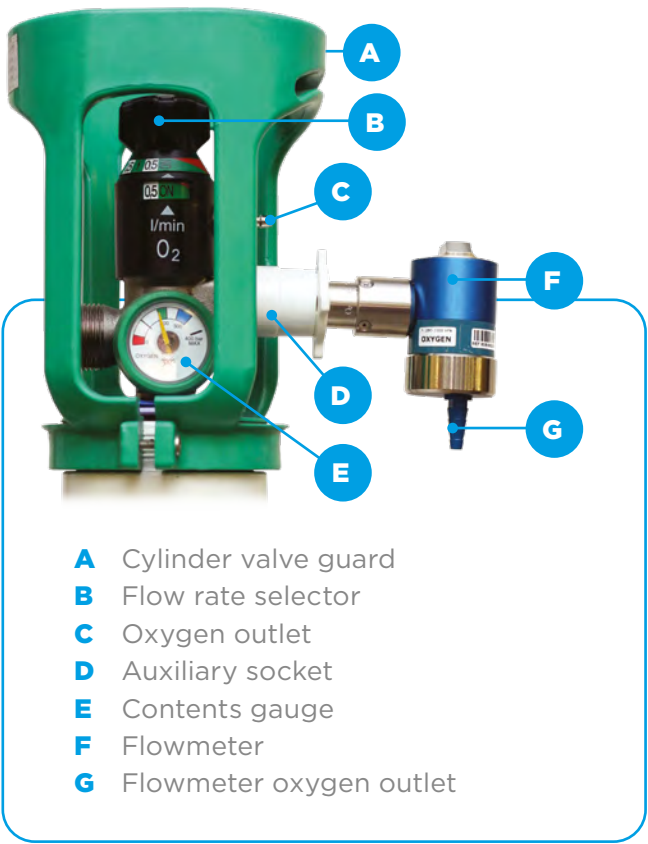
Flow rate (lpm)	Duration
0.01	147 days
0.02	73 days
0.03	49 days
0.04	36 days
0.05	29 days
0.06	24 days
0.07	21 days
0.08	18 days
0.09	16 days


B10P durations using a low flow meter

Flow rate (lpm)	Duration
0.1	14 days 16 hours
0.15	9 days 19 hours
0.2	7 days 8 hours
0.25	5 days 21 hours
0.3	4 days 21 hours
0.35	4 days 4 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	39 hours

Caution

The cylinder is full when the contents gauge points to the green section. When cold the gauge will drop; this will resolve once the cylinder returns to room temperature. The appearance of the gauge may vary.





Ambulatory Cylinders

Ambulatory cylinders are provided to patients who require oxygen for ambulation. They are provided with a cylinder bag to enable safe carrying. Trolleys and trolley bags are available as an alternative at request.

Freedom[®] 400 (F400)

Standard Ambulatory Cylinder

Cylinder weight when full

3.2–3.7 kg (7-8 lb)

Freedom 400 durations without conserver

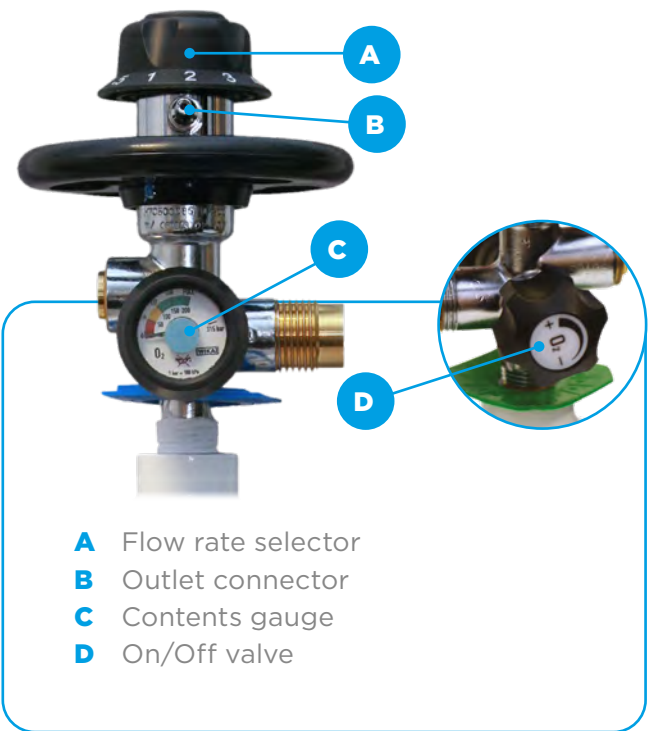
Flow rate (lpm)	Duration
0.5	14 hours 20 mins
1	7 hours 10 mins
2	3 hours 35 mins
3	2 hours 23 mins
4	1 hour 47 mins
6	1 hour 11 mins
8	53 mins
10	43 mins
15	28 mins

Freedom 400 durations with conserver

Flow rate (lpm)	Duration
0.5	35 hours
1	21 hours
2	10 hours
3	7 hours
4	5 hours
5	4 hours 20 mins
6	3 hours
8	2 hours 20 mins

Caution

The cylinder is full when the contents gauge points to the green section. When cold the gauge will drop; this will resolve once the cylinder returns to room temperature. The appearance of the gauge may vary.



Freedom[®] 300 (F300)

Lightweight Ambulatory Cylinder

Cylinder weight when full

2.1-2.6 kg (4.6-5.7 lb)

Freedom 300 durations without conserver

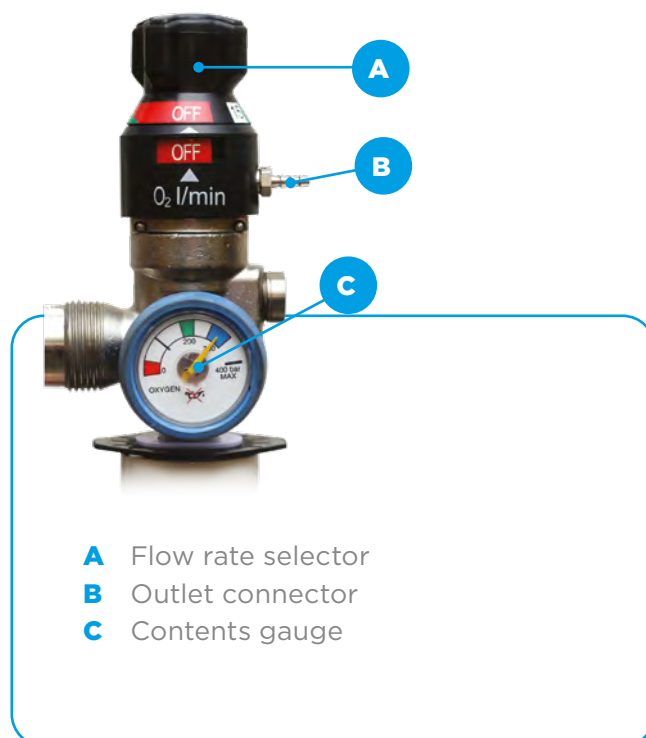
Flow rate (lpm)	Duration
0.5	10 hours 16 mins
1	5 hours 8 mins
1.5	3 hours 25 mins
2	2 hours 34 mins
3	1 hour 42 mins
4	1 hour 17 mins
6	51 mins
8	38 mins
15	20 mins

Freedom 300 durations with conserver

Flow rate (lpm)	Duration
0.5	24 hours
1	15 hours
1.5	8 hours 30 mins
2	7 hours
3	5 hours
4	3 hours
6	2 hours
8	1 hour 20 mins

Caution

The cylinder is full when the contents gauge points to the green section. When cold the gauge will drop; this will resolve once the cylinder returns to room temperature. The appearance of the gauge may vary.



Freedom[®] 300p (F300P)

Lightweight Paediatric Ambulatory Cylinder

Cylinder weight when full

2.1-2.6 kg (4.6-5.7 lb)

F300P durations using a micro flow meter

Flow rate (lpm)	Duration
0.01	21 days
0.02	10.5 days
0.03	7 days
0.04	5 days
0.05	4 days
0.06	3.5 days
0.07	3 days
0.08	2.5 days
0.09	2.25 days

F300P durations using a low flow meter

Flow rate (lpm)	Duration
0.1	2 days
0.15	1 day 9 hours
0.2	1 days
0.25	20 hours 30 mins
0.3	17 hours
0.35	14 hours 36 mins
0.4	12 hours 30 mins
0.5	10 hours
0.6	8 hours 30 mins
0.7	7 hours
0.8	6 hours
0.9	5 hours 30 mins

Caution

The cylinder is full when the contents gauge points to the green section. When cold the gauge will drop; this will resolve once the cylinder returns to room temperature. The appearance of the gauge may vary.



Freedom® 600 (F600)

Standard Paediatric Ambulatory Cylinder

Cylinder weight when full

3.5 kg (7.7 lb)

F600 durations using a micro flow meter

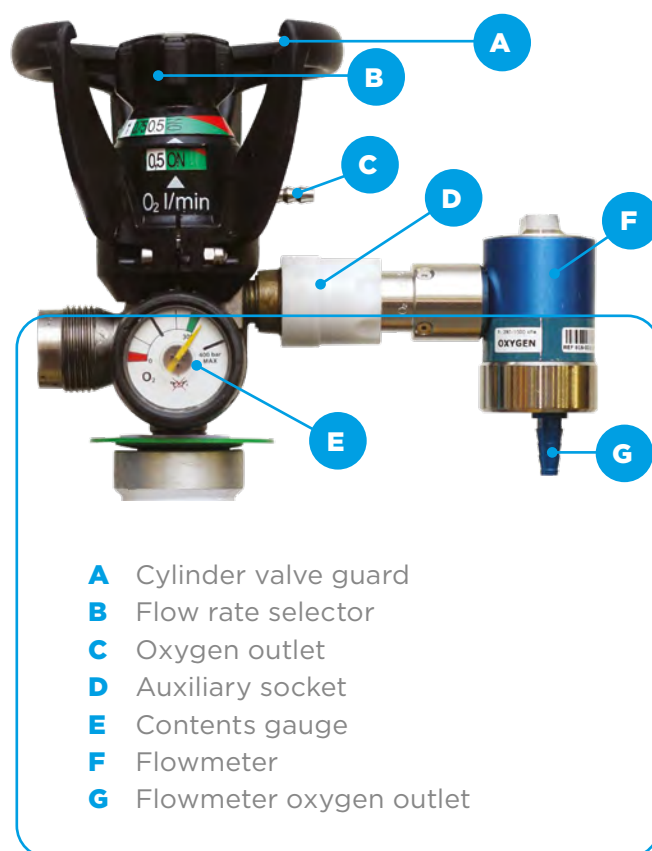
Flow rate (lpm)	Duration
0.01	42 days
0.02	21 days
0.03	14 days
0.04	10 days
0.05	8 days
0.06	7 days
0.07	6 days
0.08	5 days
0.09	4.5 days

F600 durations using a low flow meter

Flow rate (lpm)	Duration
0.1	4 days
0.15	2 days 19 hours
0.2	2 days
0.25	1 day 17 hours
0.3	1 day 9 hours
0.35	1 day 5 hours
0.4	25 hours
0.5	20 hours
0.6	16 hours
0.7	14 hours
0.8	12 hours
0.9	11 hours

Caution

The cylinder is full when the contents gauge points to the green section. When cold the gauge will drop; this will resolve once the cylinder returns to room temperature. The appearance of the gauge may vary.



A woman with blonde hair, wearing a blue denim shirt, is shown in profile, holding a white demand valve to her mouth. She is looking down at the device. A white tube is connected to the bottom of the valve. The background is slightly blurred, showing a green chair and a white wall. A large blue circle is overlaid on the left side of the image, containing the title and text.

Demand Valve

Cluster headache demand valves provide high flow pressured oxygen. They have been proven to reduce the length of time a cluster headache lasts. Using a demand valve will increase static and portable cylinder durations, reduce delivery activities and will improve safety for the patient.

Demand Valve

Oxygen is only released from the cylinder as a patient takes a breath. If the patient falls asleep following a cluster headache, they tend to release the mouthpiece from their mouth or the mask will fall away from their face. This prevents oxygen waste and reduces risk of fire.

Cylinder duration is dependent on a patients breathe rate, but could be compared to using a conserver at 15 lpm.

Freedom 300p duration with a demand valve

Flow rate (lpm)	Duration
15	60 minutes

Freedom 600 duration with a demand valve

Flow rate (lpm)	Duration
15	2 hours

B10p durations duration with a demand valve

Flow rate (lpm)	Duration
15	7 hours 3 minutes

Caution

All cylinder durations are depentant on the patient's breathing rate and the figures displayed are estimates only.

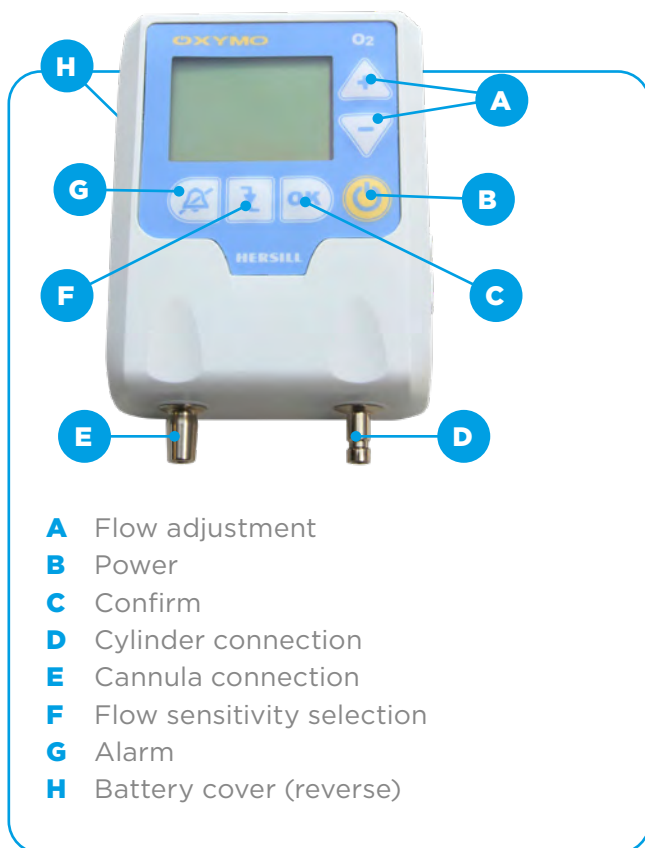




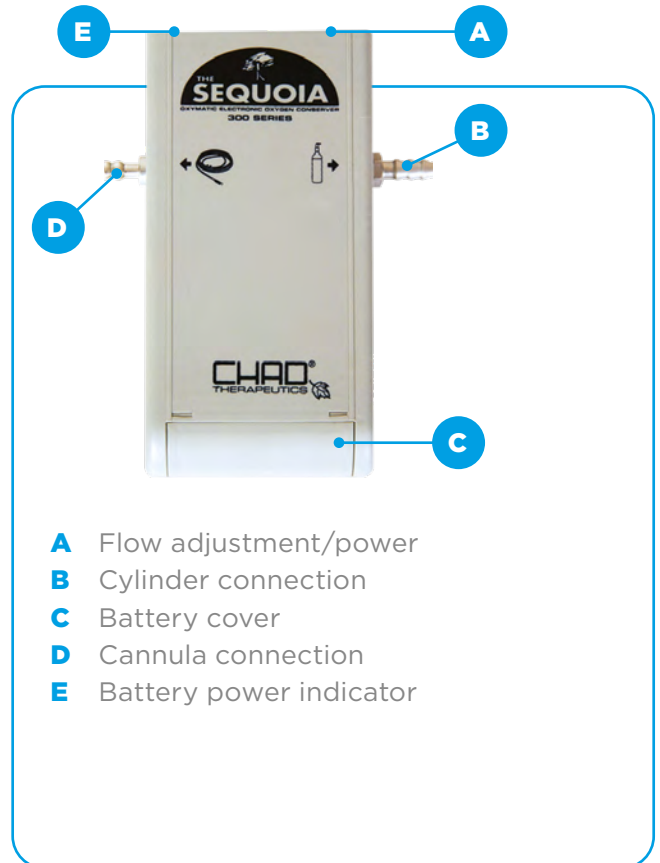
Conservers

Conservers control the release of oxygen from a cylinder to coincide with the users inhalation. Through this process the duration of the cylinder is extended by approximately three times (depending on the users breathing rate).

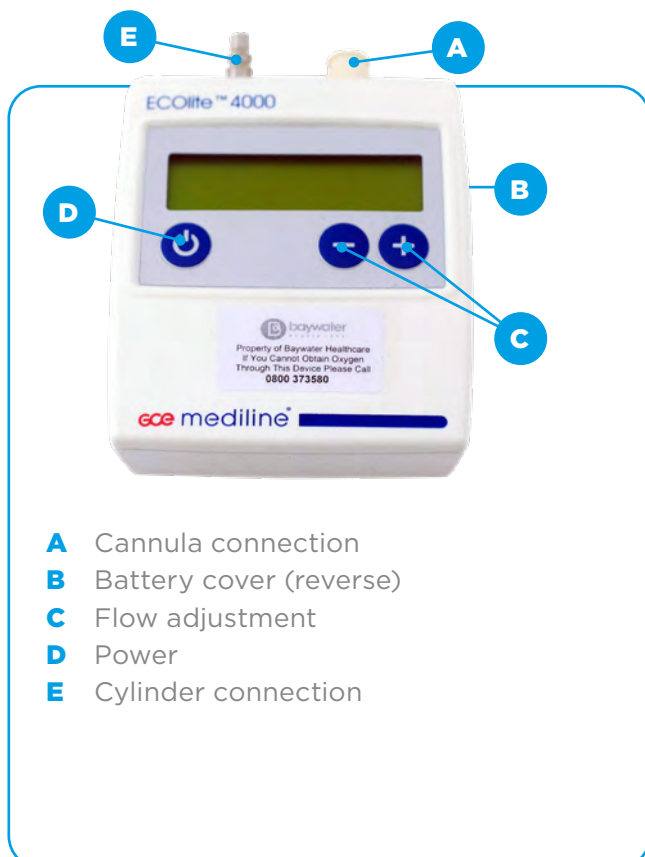
Oxymo



Sequoia



ECOLite 4000





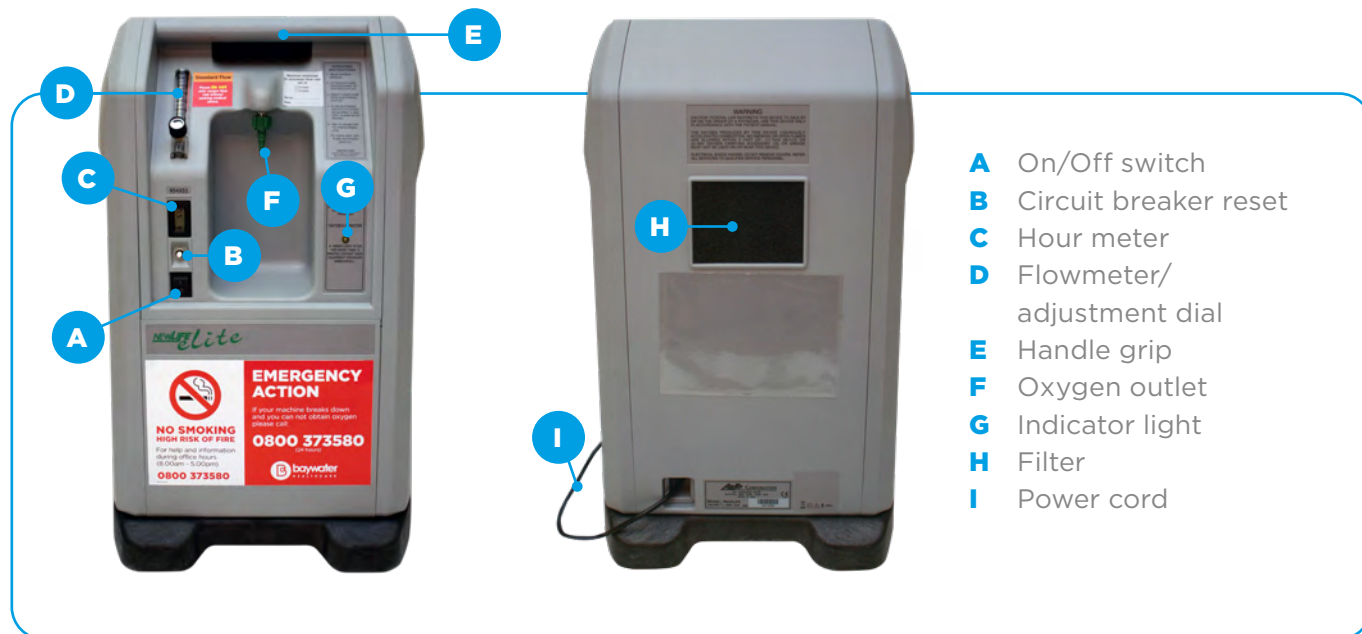
Concentrators

Concentrators are a static device that are usually provided to meet long term oxygen therapy requirements.

Concentrators can be provided with fixed tubing, which can reduce the risk of trips and falls for patients who need to use oxygen in more than one room or over more than one floor. Fixed tubing can be requested on a HOOF or by calling Baywater Healthcare.

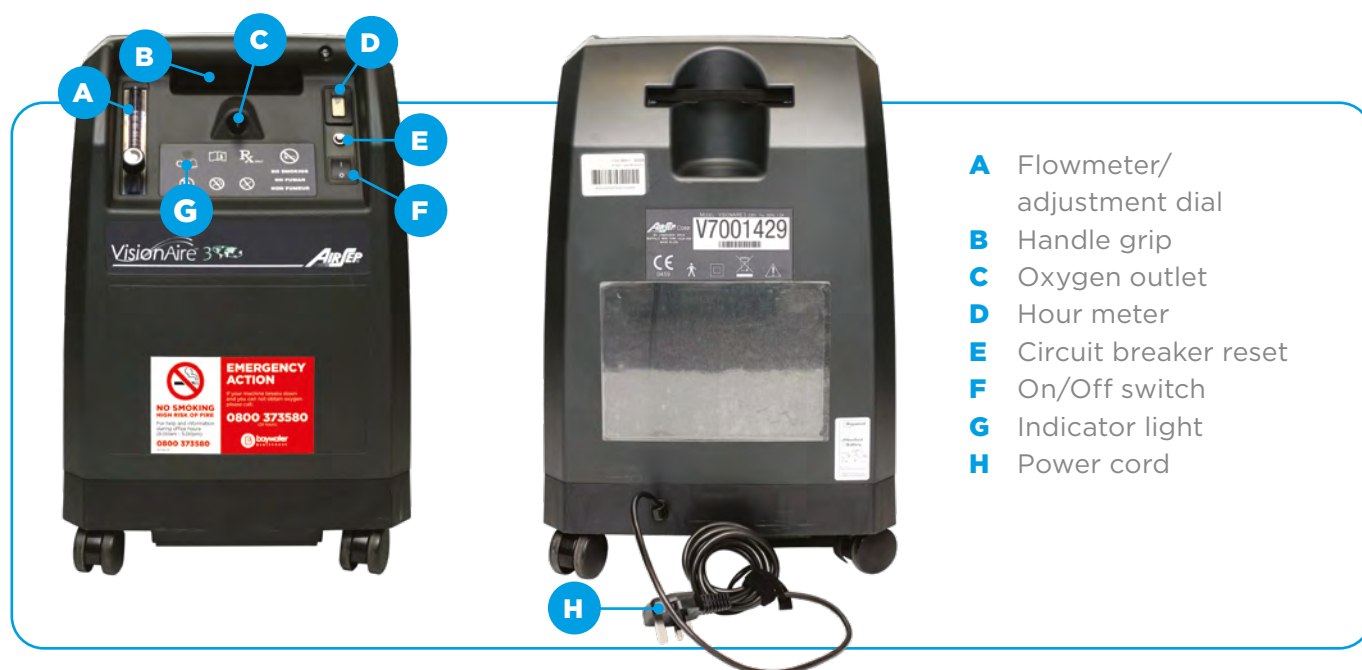
AirSep Newlife Elite

Standard flow range: 1-5 lpm (0.5 lpm increments)
Low flow range: 0.1-2 lpm (0.1 lpm increments)
High flow range: 2-8 lpm (0.5 lpm increments)



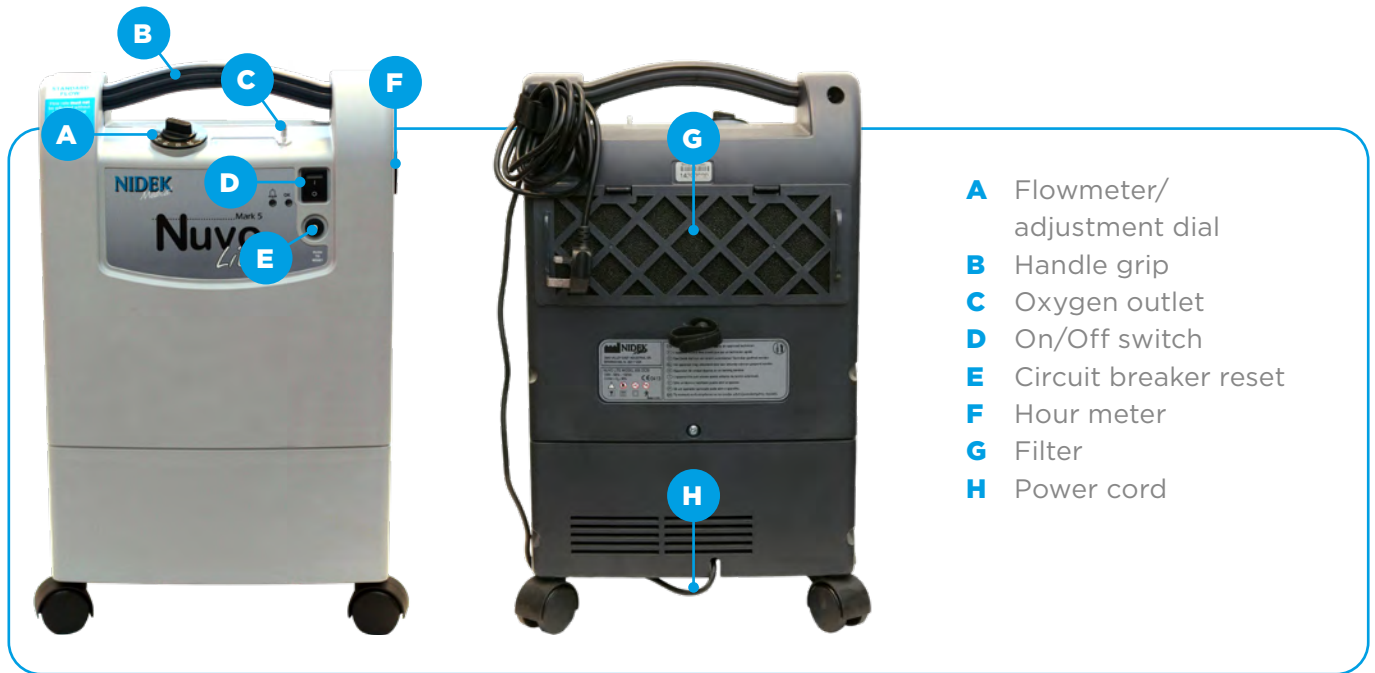
AirSep Visionaire 3

Flow range: 0.5-3 lpm (0.5 lpm increments)



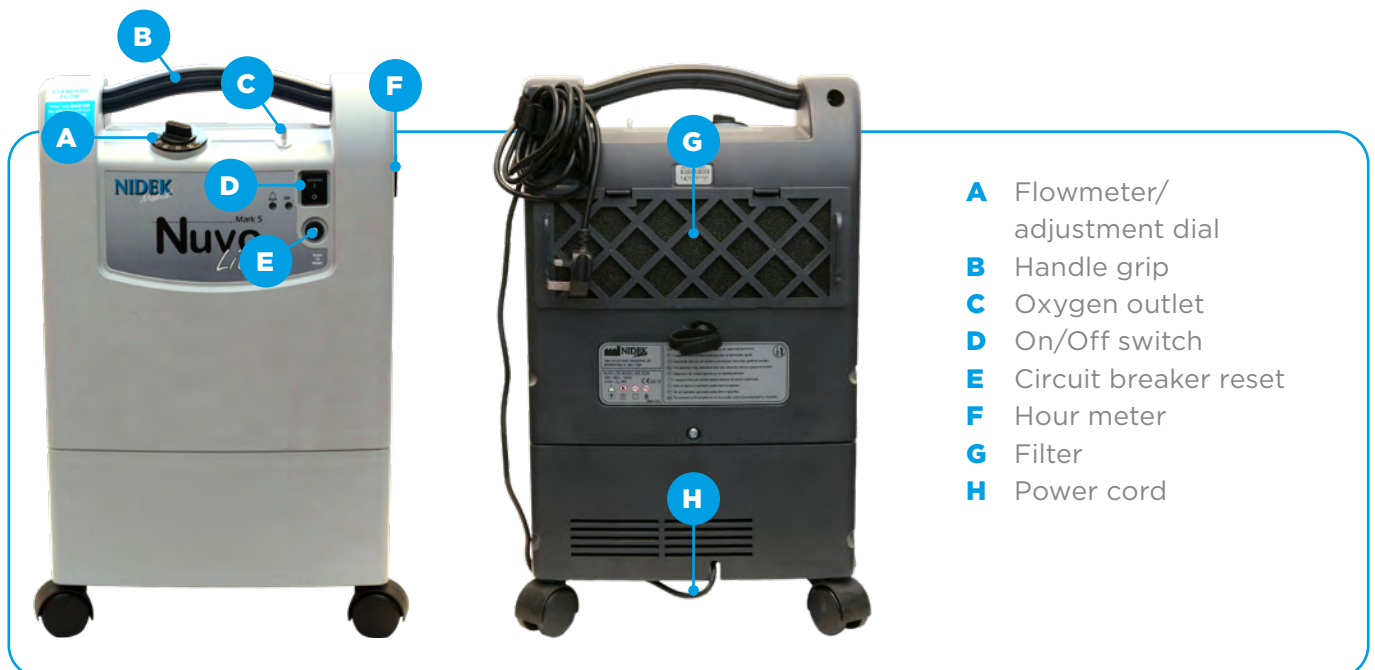
Nidek Nuvo Lite 3

Flow range: 0.125–3 lpm (0.125 lpm, 0.25 lpm, then 0.5 lpm–3 lpm - 0.5 lpm increments)



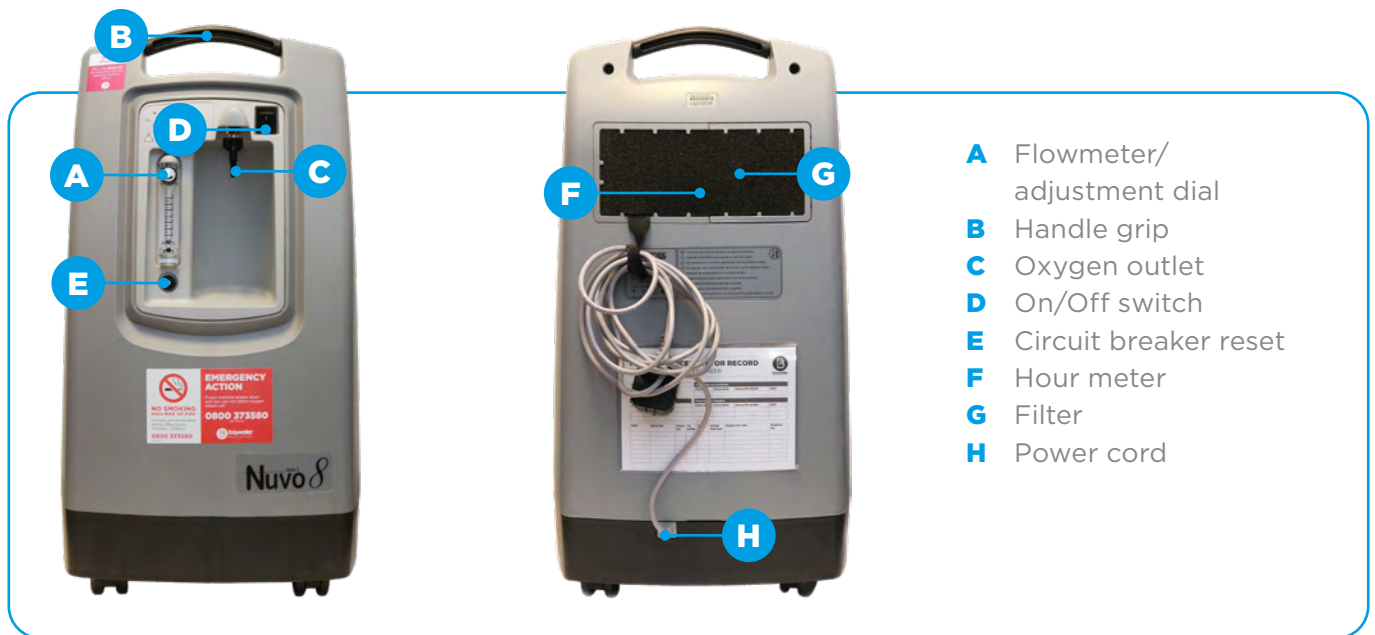
Nidek Nuvo Lite 5

Flow range: 0.125–5 lpm (0.125 lpm, 0.25 lpm, then 0.5 lpm–5 lpm - 0.5 lpm increments)



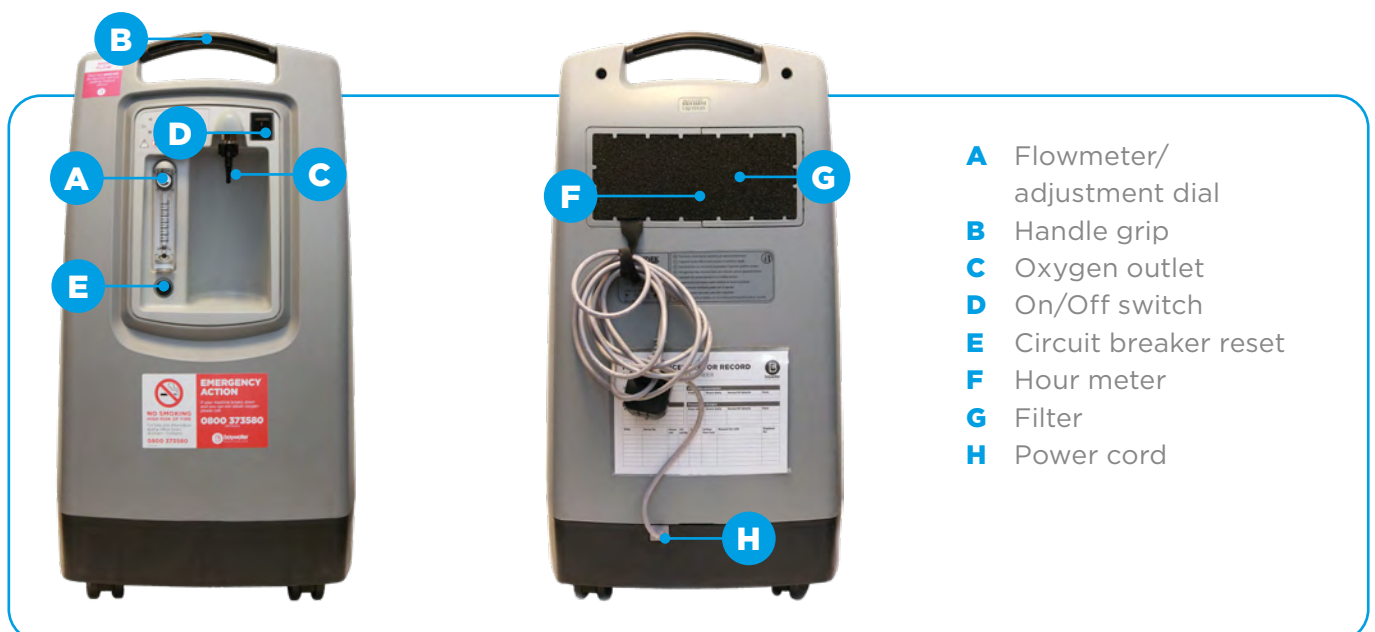
Nidek Nuvo 8

Flow range: 2–8 lpm (0.5 lpm increments)



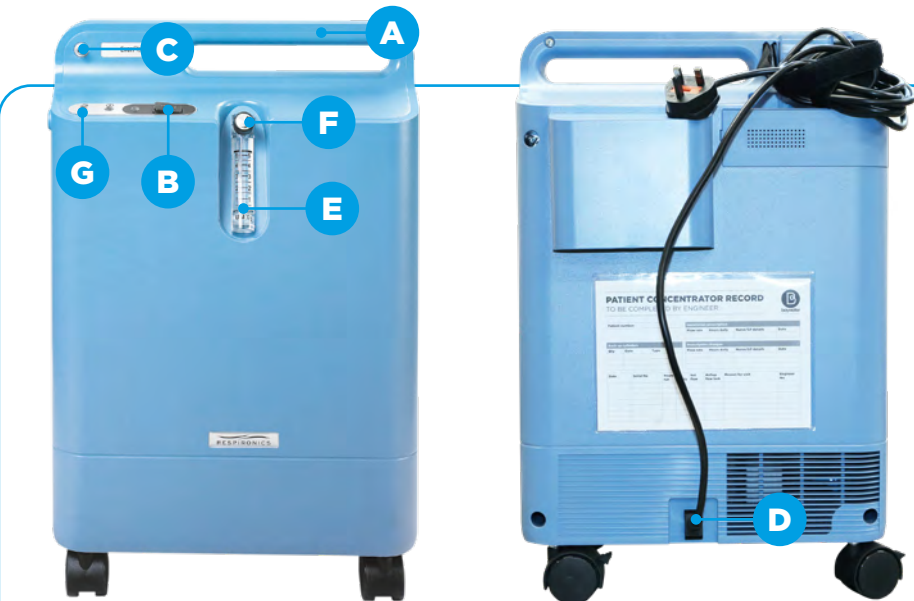
Nidek Nuvo 10

Flow range: 2–10 lpm (0.5 lpm increments)




EverFlo

Standard flow range: 1-5 lpm (0.5 lpm increments)
Low flow range: 0.1-1 lpm (0.1 lpm increments)



The image shows the front and back views of the EverFlo oxygen concentrator. The front view (left) features a carry handle (A), on/off switch (B), oxygen outlet (C), flow meter (E), flow control (F), and alarm indicator lights (G). The back view (right) shows the power cord (D) and a patient concentrator record sheet.

A Carry handle
B On/Off switch
C Oxygen outlet
D Power cord
E Flow meter
F Flow control
G Alarm indicators lights



Caution
Never turn the flow rate to greater than 1 lpm on the low flow model. If the ball is above the 1 lpm line, turn the flow back down to the prescribed flow rate.

Respironics Millennium M5

Flow range: 0.1-1 lpm (0.1 lpm, 0.2 lpm, 0.25 lpm, then 0.3 lpm-1 lpm – 0.1 lpm increments)



The image shows the front and back views of the Respironics Millennium M5 oxygen concentrator. The front view (left) features a handle grip (B), flowmeter/adjustment dial (A), oxygen outlet (C), on/off switch (D), indicator lights (E), and emergency action instructions. The back view (right) shows the filter (G), power cord (H), and hour meter (F).

A Flowmeter/adjustment dial
B Handle grip
C Oxygen outlet
D On/Off switch
E Indicator lights
F Hour meter
G Filter
H Power cord

DeVilbiss

Flow range: 0.5–5 lpm (0.5 lpm increments)



DeVilbiss 10

Flow range: 2–10 lpm (1 lpm increments)



Kroeber

Flow range: 0.1-6 lpm (0.1 increments to 2 lpm, 0.2 increments to 4 lpm, 0.5 increments to 6 lpm)



A man with glasses and a beard is walking in a grassy field. He is wearing a dark blue fleece jacket over a grey shirt and blue jeans. A portable oxygen concentrator is visible in the foreground, connected to a tube that goes into his nose. The background is a blurred green field with some yellow flowers.

Portable Concentrators

Portable concentrators work like standard concentrators but are much smaller allowing them to be used while a patient ambulates.

Portable concentrators use pulse dose oxygen.

These devices are battery powered and require periodic recharging.

Inogen G2

Device weight

3.3 kg (7.25 lb)

Battery duration - pulse flow mode (setting)

Flow rate	Duration
1	4 hours 36 mins
2	4 hours 5 mins
3	3 hours 30 mins
4	2 hours 50 mins
5	2 hours 35 mins
6	2 hours 5 mins

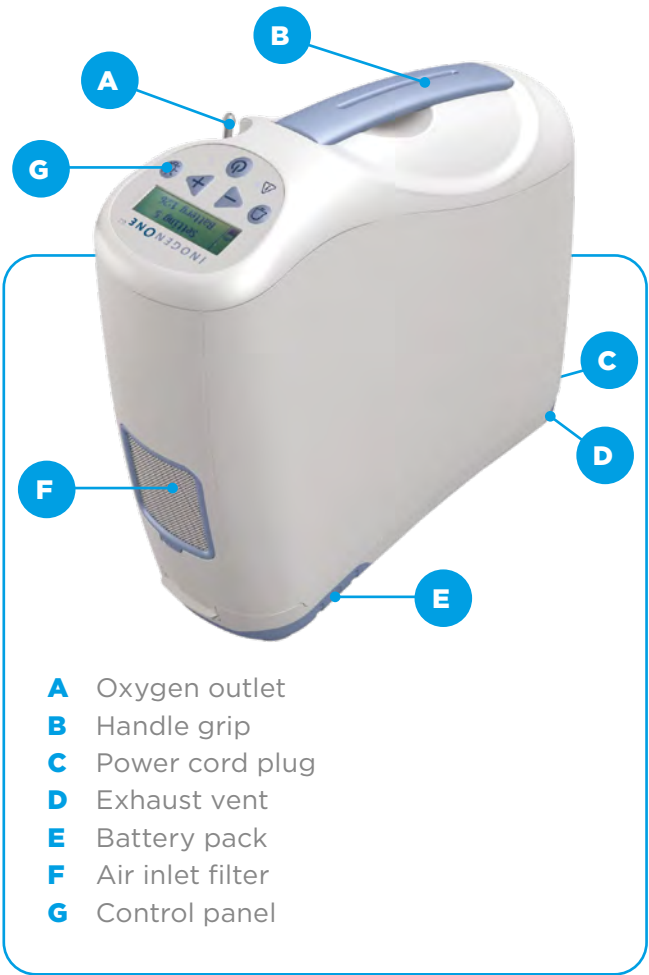
Caution

Ensure the concentrator machine is kept upright at all times.

Keep the battery pack dry at all times.

If it becomes exposed to liquid stop using it immediately and contact us.

Wet battery packs can present safety hazards including fire and electric shock.



Inogen G5

Device weight

2.6 kg (5.7 lb)

Battery duration - pulse flow mode (setting)

Flow rate	Duration
1	13 hours 28 mins
2	10 hours 22 mins
3	7 hours 1 min
4	4 hours 55 mins
5	3 hours 48 mins
6	2 hours 58 mins

Battery indication chart

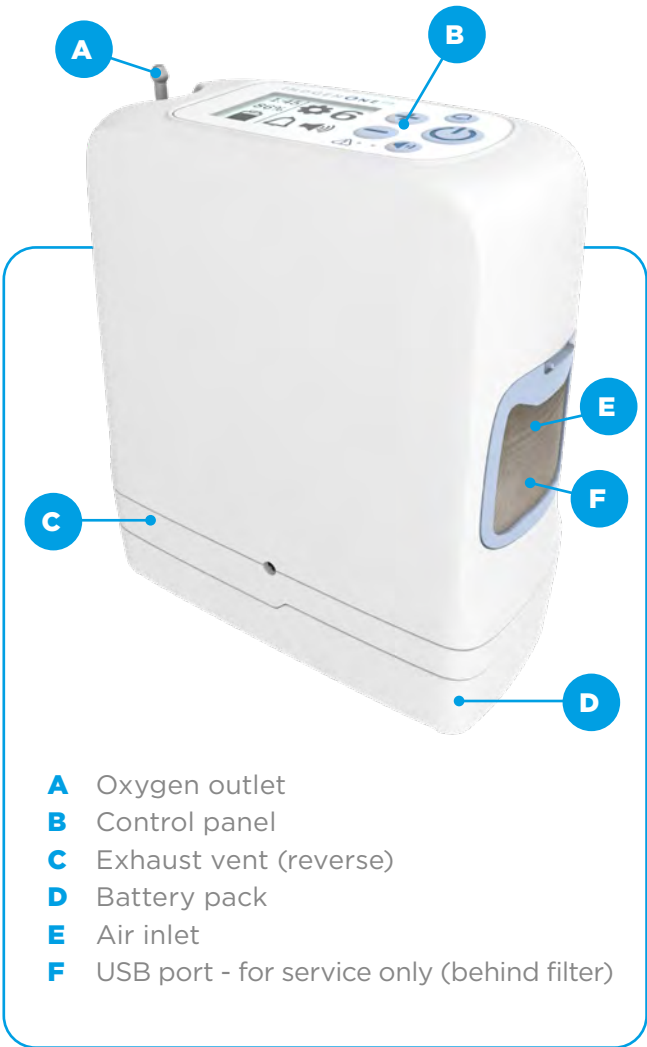
4 LEDs lit	75% to 100% full
3 LEDs lit	50% to 75% full
2 LEDs lit	25% to 50% full
1 LEDs lit	10% to 25% full
1 LEDs (blinking)	Battery is less than 10% full and needs to be recharged

Caution

Keep the battery pack dry at all times.

If it becomes exposed to liquid stop using it immediately and contact us.

Wet battery packs can present safety hazards including fire and electric shock.



A woman with short, curly blonde hair and glasses is walking on a gravel path. She is wearing a purple long-sleeved shirt, a pink cardigan, and light-colored trousers. She is smiling and looking towards the camera. A white tube from a portable oxygen concentrator is connected to her nose. The concentrator is a black, wheeled device on the ground. In the background, there is a green field with some cows grazing, and a line of trees in the distance. A large blue circle is overlaid on the left side of the image, containing the title and descriptive text.

Transportable Concentrators

Transportable concentrators are larger than portable concentrators but also use a battery to allow the patient to ambulate while using them.

Transportable concentrators have the ability to be used on continuous flow setting, for those patients who cannot use pulse dose oxygen.

SimplyGo

Device weight

4.5 kg (10 lb)

Battery duration - continuous flow mode (lpm)

Flow setting	Duration
0.5	3.1 hours
1	2.3 hours
2	0.9 hours

Battery duration - pulse flow mode (setting)

Flow rate	Duration
1	3.7 hours
2	3.5 hours
3	3.3 hours
4	2.7 hours
5	2.3 hours
6	1.9 hours

Two batteries are supplied as standard.

Caution

Ensure the concentrator machine is kept upright at all times.

Make sure the flow setting on the concentrator machine is set to the flow setting ordered by the users Healthcare Professional.

Keep the battery pack dry at all times.

If it becomes exposed to liquid stop using it immediately and contact us.

Wet battery packs can present safety hazards including fire and electric shock.



A photograph of a middle-aged man with a nasal cannula, wearing a red and white checkered shirt, leaning over a white liquid oxygen concentrator. The device has a control panel with various warning symbols and a large circular oxygen outlet. A large blue circle is overlaid on the left side of the image, containing the title and description text.

Liquid Oxygen

Liquid oxygen is an ambulatory modality comprised of two parts, a dewar containing a reservoir of liquid oxygen and a flask which is filled from the dewar to be used while the patient ambulates.

Caire Low Loss Dewar



Checking how much oxygen is left

1. To check the level of LOX in the LOX tank, press the level switch for two seconds and read the liquid level display. If only 2 or fewer bars light up (25%) please call our Healthcare Helpline.
2. If the low battery indicator on the liquid level display lights up tell the Healthcare Technician or call our Healthcare Helpline.

Dehas Dewar



Checking how much oxygen is left

1. Push the activation button on the liquid level Indicator. The lights will scroll from bottom to top, then the lights indicating the level of liquid oxygen will remain on for 5 seconds. If only 2 or fewer bars light (25%) please call our Healthcare Helpline.
2. If the low battery indicator on the liquid level display lights up please tell the Healthcare Technician or call our Healthcare Helpline.

Companion T Flask



Weight full

3.9 kg (8.6 lb)

Companion T flask duration

Flow rate	Continuous flow
1	12 hours
2	8 hours 30 mins
3	6 hours
4	4 hours 15 mins
5	3 hours
6	2 hours 30 mins
8	2 hours
10	1 hour 30 mins
15	50 mins

All timings are approximate and can change depending on how fast the patient is breathing.
Do not lay this flask on the ground as it will leak.

High Flow Stroller Flask



Weight full

3.6 kg (8 lb)

High flow stroller flask duration

Flow rate	Continuous flow
0.5	32 hours
1	16 hours
2	8 hours
2.5	6 hours 20 mins
3	5 hours 20 mins
4	4 hours
6	2 hours 40 mins
8	2 hours
10	1 hour 40 mins
12	1 hour 20 mins
15	1 hour

All timings are approximate and can change depending on how fast the patient is breathing.
Do not lay this flask on the ground as it will leak.

Marathon Flask



Weight full

2.5 kg (5.5 lb)

Marathon flask duration

Flow rate	Demand flow	Continuous flow
1	n/a	10.5 hours
1.5	22.5 hours	n/a
2	18.5 hours	5.5 hours
2.5	16 hours	n/a
3	11.5 hours	3.5 hours
4	9.5 hours	2.5 hours
5	n/a	2 hours
6	n/a	1.5 hours

All timings are approximate and can change depending on how fast the patient is breathing. If after filling the Marathon there is flow, it is possible that the flask has been over filled. Please lay the unit on it's back and wait for about one hour for the unit to defrost

Helios Flask



Weight full

1.6 kg (3.6 lb)

Helios flask duration

Flow rate	Demand flow	Continuous flow
0.12	n/a	15 hours
0.25	n/a	15 hours
0.5	n/a	10 hours
0.75	n/a	6.5 hours
1	13 hours	n/a
1.5	12 hours	n/a
2	10 hours	n/a
2.5	8.5 hours	n/a
3	6.5 hours	n/a
3.5	6 hours	n/a
4	5 hours	n/a

All timings are approximate and can change depending on how fast the patient is breathing.

Spirit 600 Flask



Weight full

2.5 kg (5.6 lb)

Spirit 600 flask duration

Flow rate	Demand flow	Continuous flow
1	17 hours	n/a
2	17 hours	4 hours
3	12 hours	n/a
4	8 hours	n/a
5	4 hours	n/a

All timings are approximate and can change depending on how fast the patient is breathing.

If after filling the Spirit 600 there is flow, it is possible that the flask has been over filled.

Please lay the unit on it's back and wait for about one hour for the unit to defrost.

A close-up photograph of a person's hand, wearing a silver-toned chronograph watch, interacting with the control panel of a Maco self-fill oxygen concentrator. The hand is pressing a black rocker switch. The control panel is beige with a blue border and features the Maco logo at the top. Below the logo, there are several indicator lights and labels: 'HOWEFILL™ II', 'ATTENTION', 'O-BELOW NORMAL', 'FULL', and 'FILTRATION'. A 'NO SMOKING' symbol is also visible. The background is slightly blurred, showing a white cylindrical component of the device.

Self-Fill

Self-fill is comprised of an oxygen concentrator and a portable cylinder.

Oxygen can be supplied directly from the concentrator as long term oxygen therapy, and can also fill portable cylinders to be used while the patient ambulates.

Self Fill

Flow range: *0.5-5 lpm (0.5 lpm increments)

HF2PCR6 weight full

1.9 kg (4.1 lb)

HF2PCR6 self fill cylinder duration

Flow setting	Duration
1	9 hours 18 mins
2	5 hours 54 mins
3	4 hours 30 mins
4	3 hours 36 mins
5	3 hours
Continuous (2 lpm)	1 hour 20 mins

HF2PCE9 weight full

2.4 kg (5.3 lb)

HF2PCE9 self fill cylinder duration

Flow setting	Duration
1	14 hours 18 mins
2	9 hours 6 mins
3	6 hours 54 mins
4	5 hours 36 mins
5	4 hours 42 mins
Continuous (2 lpm)	2 hours 5 mins

Caution

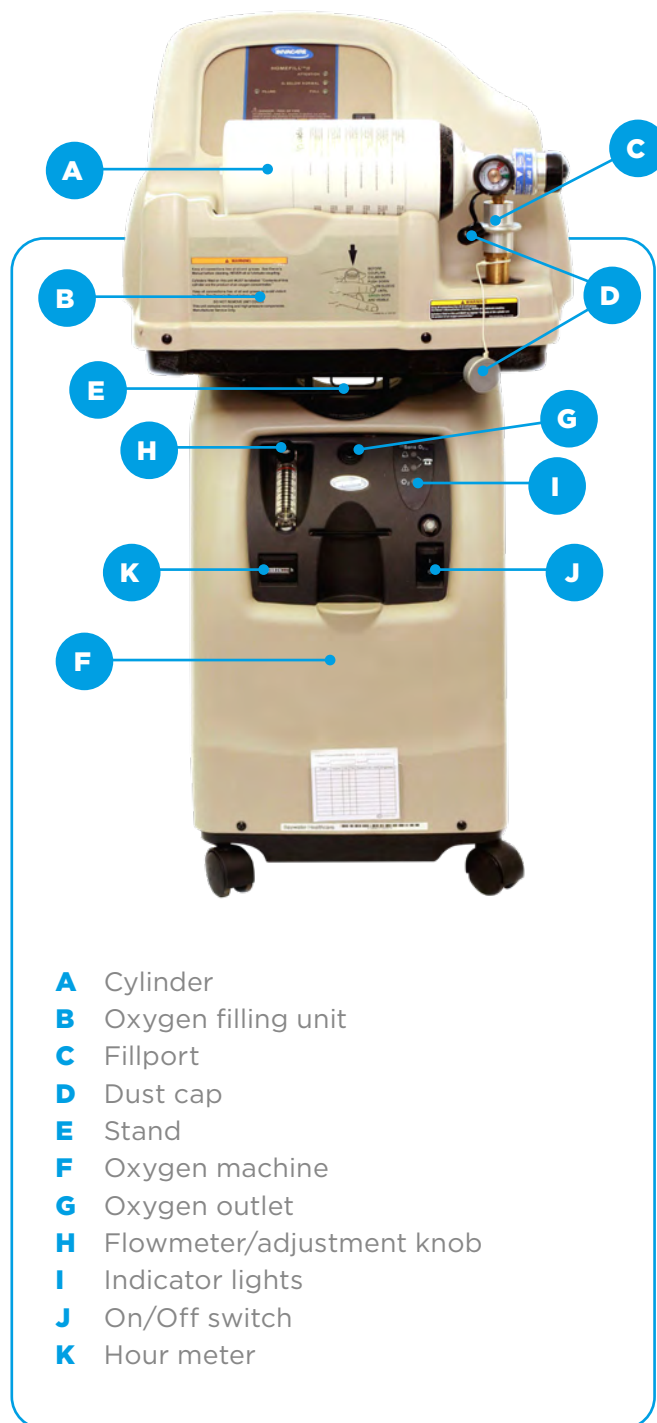
Ensure the oxygen concentrator is kept upright at all times.

Plug the oxygen concentrator into the mains, do not use an extension lead.

Make sure the flow rate on the oxygen concentrator is set to the flow rate ordered by the users Healthcare Professional.

Do not restrict the air flow around the oxygen concentrator.

*The oxygen concentrator can not deliver above 3 lpm while filling a cylinder





Baywater Healthcare

Baywater Healthcare is a leading specialist provider of homecare services to patients with long term conditions. We deliver outstanding patient care and tailor our service to reflect the needs and challenges of our healthcare partners, while driving efficiencies and delivering cost savings.

Our healthcare services include:

- Home Oxygen Services
- Sleep Apnoea Services
- Recovery Oxygen
- Nebuliser Services
- Managed Telehealth Services
- Ventilation Services

For more information please contact:

Baywater Healthcare

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Electra Way
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CW1 6GW

Call: 0800 373580



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