





Portable oxygen concentrators

Portable oxygen concentrators are ideal for effective ambulatory oxygen therapy. These lightweight battery-operated models can be worn in backpacks or transported on a trolley to enable patients to move freely. BOC offers portable oxygen concentrators in continuous and pulse dose models. The following table outlines the basic specifications of the portable concentrators on offer.

Delivery Type	Continuous & Pulse Delivery	Pulse Delivery		
Device				
Model Name	Philips SimplyGo™	Inogen One® G3™	Inogen One® G5™	Caire FreeStyle™ Comfort™
Delivery Specifications				
Continuous flow	0.5 – 2 L/min	×	×	×
Pulse dose Settings	6 settings	5 settings	6 settings	5 settings
Maximum Oxygen Capabilities	Continuous: 2 LPM	1050 ml	1260 ml	1050 ml
Nocturnal oxygen therapy	✓	×	×	×
Devices Specifications				
Weight (Kg)	4.54 Kg	2.2 Kg – 2.8 Kg*	2.3 Kg – 2.8 Kg*	2.3 Kg – 2.7 Kg*
Size (cm)	29.2 cm x 25.4 cm x 15.2 cm	22.2 cm x 7.6 cm x 21 cm	18.2 cm x 8.2 cm x 18 cm	25.4 cm x 18.5 cm x 7.9 cm
Noise (dBA)**	43 dBA**	39 dBA**	38 dBA**	43 dBA**
Battery run time (Hr)**	54 min cont./3 hr Pulse	4.5 – 9.5* hrs	6.5 – 13* hrs	4 – 8* hrs
Carrying aid	Carry bag and trolley	Carry bag/optional backpack	Carry bag/optional backpack	Carry bag/optional backpack
Warranty	Device: 2 years Sieve beds: 1 year Battery: 3 months	Device: 5 years Sieve beds: 1 year Battery: 1 year	Device: 5 years Sieve beds: 1 year Battery: 1 year	Device: 3 years Sieve beds: 3 years Battery: 1 year

Referring a patient

Fill in our patient referral form. Email completed form to healthcare@boc.com. For DVA eligible patients please use the DVA referral form. Once referral form is received, BOC will contact the patient as soon as possible to discuss their options. Referral forms can be accessed online at www.boc.com.au/homecare

Pulse dose oxygen concentrator selection guide

A pulse dose device provides oxygen in bolus doses triggered by the inspiratory pressure and have a range of settings to adjust the amount of oxygen delivered (bolus size or minute volume). To assist with titration as recommended by TSANZ⁽¹⁾, BOC can provide rental devices, if available, for patients to bring to their appointment for titration. Table 1 outlines the oxygen delivery specifications of each device to assist in choosing a suitable device for your patient.

- The Fixed Minute Volume (FMV) devices maintain the volume of oxygen delivered per minute regardless of breathing rate.
- Devices following a Fixed Pulse Volume (FPV) method increase the oxygen delivery per minute to maintain the concentration of inspired oxygen. This method is limited by the maximum oxygen production capacity of the device.
- Devices producing higher volume of oxygen per minute are more likely to be suitable for a patient with higher oxygen needs.

Table 1: Overall specifications

Setting	Bolus size ml (20 breaths per minute)						Max ml/min	Bolus delivery
	1	2	3	4	5	6		
Inogen One® G3™	10.5	21	31.5	42	52.5	✘	1050	FMV ⁽²⁾
Inogen One® G5™	11	21	32	42	53	63	1260	FMV ⁽²⁾
Caire Freestyle™ Comfort™	10.5	21	31.5	42	52.5	✘	1050	FPV ⁽³⁾ /FMV ⁽²⁾

(1) McDonald, C. F., Whyte, K., Jenkins, S., Serginson, J., & Firth, P. (2014). Adult Domiciliary Oxygen Therapy Clinical Practice Guideline. Sydney: The Thoracic Society of Australia and New Zealand.

(2) Fixed Minute Volume: The volume of oxygen delivered per minute remains steady independently of the breathing rate.

(3) Fixed Pulse Volume: Regardless of breathing rate, the POC delivers the same bolus volume per breath for the given setting. This means the volume of oxygen per minute is increased for higher breathing rates up to maximum oxygen production capacity of the device.

Tables 2 and 3 demonstrate the bolus doses in ml at various breathing rates at each setting for Inogen One® G5™ and Caire Freestyle™ Comfort™ respectively.

Table 2: Inogen One® G5™

	1	2	3	4	5	6
Breaths per Minute						
15	14	28	42	56	70	84
20	11	21	32	42	53	63
25	8	17	25	34	42	50
30	7	14	21	28	35	42
35	6	12	18	24	30	36
40	5	11	16	21	26	32

Table 3: Caire Freestyle™ Comfort™ FPV

	1	2	3	4	5
Breaths per Minute					
15	10.5	21.0	31.5	42.0	52.5
20	10.5	21.0	31.5	42.0	52.5
25	10.5	21.0	31.5	42.0	42.0
30	10.5	21.0	31.5	35.0	35.0
35	10.5	21.0	30.0	30.0	30.0
40	10.5	21.0	26.3	26.3	26.3

BOC ensures that all the devices we offer have valid CE certificates. Furthermore, device samples are tested at our dedicated labs to validate the performance criteria for better provision of care.