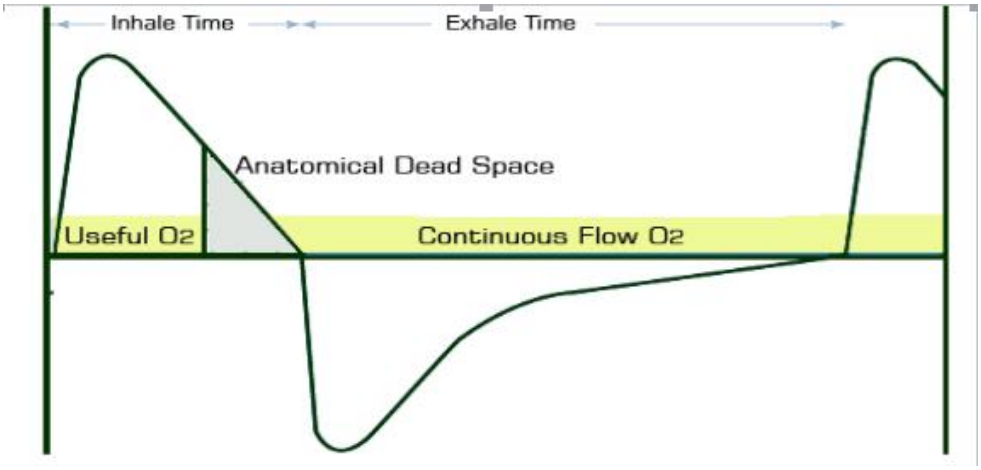
Product name	Inogen one G3	**Kingon P2**	Philips Simplygo mini
Photos			
rated power	100W	100W	120 W
O2 concentration	**87%-96%**		
concentration alarm	low oxygen concentration < 82% incorrect concentration: < 50% concentration sensor error alarm	low oxygen concentration < 87% incorrect concentration: < 50% concentration sensor error alarm	low oxygen concentration < 82% No Flow
alarm system	Power failure High and low temperature operating failure Low oxygen concentration High and low presure	Power failure High and low temperature Low oxygen concentration Low battery High and low presure Sieve bed replacing	No Breath High Breath Rate Low Oxygen Concentration Technical Fault low battery No Flow Depleted Battery
W/cm	22.2	22.1	23.9
D/cm	7.6	8.5	9.1
L/cm	18.4	16	21.1
N.W	2.19kg	**1.98kg**	2.3kg
Battery chemistry	**Li- Ion**		
battery duration	4.5h	**4h**	4.5h
battery life	**500 cycles**		
continuous or pulse flow	**Pulse flow**		
Trigger sensitivity (cmH2O)	0.12	0.12	≤ 0.2
Max respiratory rate（/min）	35	**40**	40
setting / flow	1:210ml/min		1:220ml/min
	2:420ml/min		2:440ml/min
	3:630ml/min		3:660ml/min
	4:840ml/min		4:880ml/min
	5:1050ml/min	5:1000ml/min	5:1000ml/min
Power /Hz input options	100-240V AC 50/60Hz		
	13.5-15.5V DC 10A	19v + 5% 6A MAX	12-16V DC 6.3A
battery	14.4V 6.4Ah	Voltage: 14.4VDC 6.8Ah	14.4V，6.8Ah
noise（Setting 2）	39 dB(A)	49 dB(A)	42 dB(A)
Operating temperature	5-40℃		5-35℃
Operating humidity (RH%)	less than 95%	10% to 90%	15% to 93%
Operating level	0-3048m	0-3048m	0-3048m
compressor life	20000h		
warranty time	3 years		

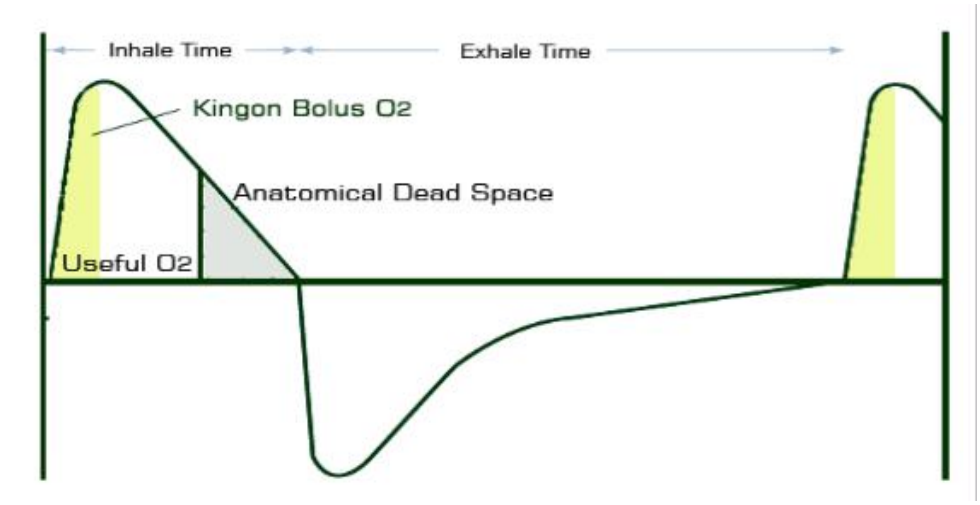
Kingon’s 1L is better than others’ 5L.

Continuous Flow



Continuous Flow is delivered at a constant rate indiscriminate of the user’s breathing.
you can see from the figure that ,only 1/6 oxygen can be effectively exchanged on the lung during a Inhale-exhale cycle ,the rest 5/6 oxygen will be wasted in the respiratory tract and exhaling time.

Pulse Dose



Pulse Dose is based on breathing and inhaling,
Pulse Dose is more sophisticated.
Pulse Dose mechanisms are more sensitive, utilizing an oxygen conserver and other technology to deliver oxygen based on breathing rates and other factors.
Kingon P2 is with a 0.097 cmH2O Trigger sensitivity ,which is the most dependable and
Sensitive portable oxygen concentrator in the world

So oxygen utilization rate is less than 20% in Continuous Flow,but 100% in Pulse Dose.
In oxygen utilization, Kingon 1 L-Portable Oxygen Concentrator has better performance than 5L Oxygen Concentrator. (Home stationary with continuous flow).

Pulse Dose technology helps Kingon’s POC to be the most suitable concentrator.


PHILIPS
RESPIRONICS


PHILIPS
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SimplyGo Mini


INVACARE
ONE


PHILIPS
RESPIRONICS
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