

Portable Oxygen Concentrator Spirit-3

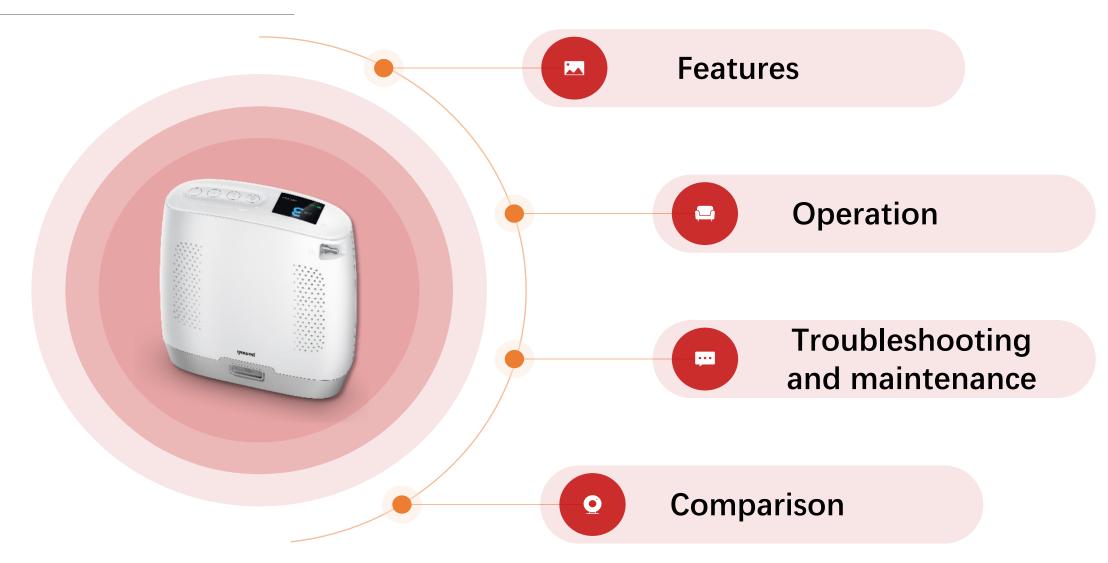
Version 1.0

Feb., 2024





Contents





Video



Intended Users

- Yuwell POC spirit-3 provides a high concentration of supplemental oxygen to patients requiring respiratory therapy.
- It may be used in the home, institution, vehicle, train, airplane, boats and other transport.









Overview

Pulse oxygen supply mode

High oxygen concentration

Detachable molecular sieve

Lightweight and portable

Modular lithium battery

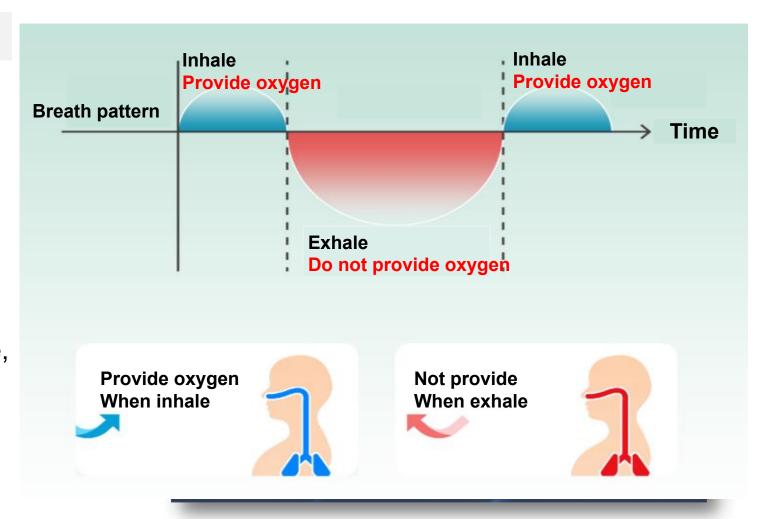
Various applicable scene

High altitude

Automatic warning system

Pulse oxygen supply mode

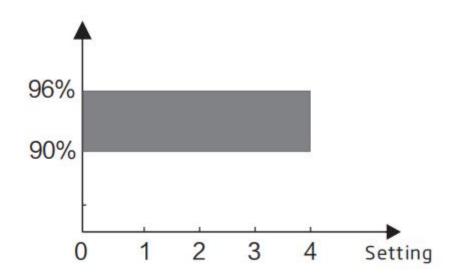
- improves the utilization rate of oxygen.
- In the process of use, it can automatically detect your breathing, according to the changes in flow and pressure during your breathing.
- oxygen is provided when you inhale, and it is turned off when you exhale to realize pulse oxygen supply.

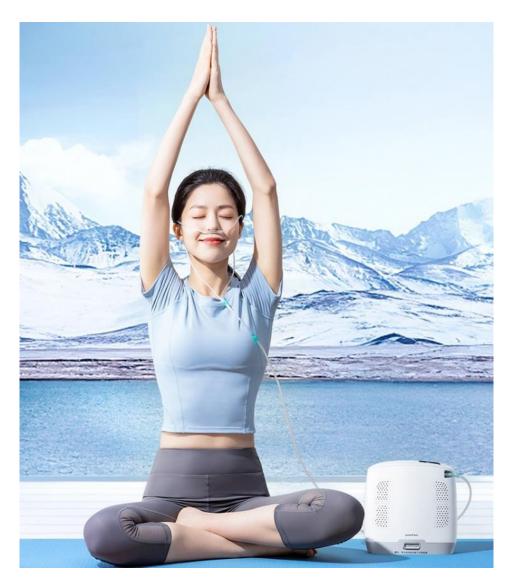


High oxygen concentration

- Medical Standard
- 93%±3% high oxygen concentration
- Adjustable flowrate from Setting 1-4

Oxygen Concentration (%)





Detachable molecular sieve

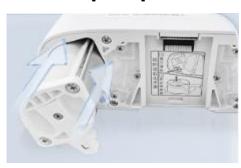
3 steps to change



Step 1: push



Step 2: pull



Step 3: change





Lightweight and portable

- Only 22 cm high and 2.2 kg
- Wearable by either shoulder strap, or backpack (optional) .







(optional)

Modular lithium battery

- Maximum usage time: 5 hours
- Another batteries can be added to increase the working time

> Charging time: 3 hours 40 minutes

> Usage time:

level 1:5 hours

level 2:3 hours 20 minutes

level 3: 2 hours and 20 minutes

level 4: 2 hours



Various applicable scene

 These lightweight devices are used for portability and time away from home and can easily be carried and used anywhere, whether in a home, automobile, or plane to deliver the oxygen you need.











AC electrical power at home



DC power in a vehicle



Battery power on the go

High altitude

Up to 5000 meters above sea level without decrease of concentration levels.

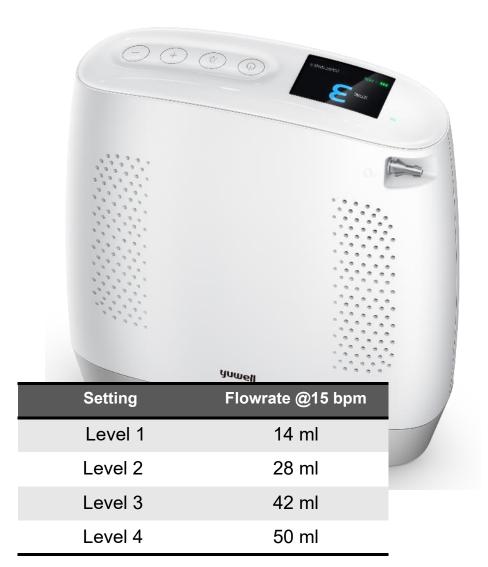


Automatic warning system

- System Over Hot: Alarming and Shut Down
- Pressure Failure: Alarming and Shut Down
- Compressor Failure: Alarming and Shut Down
- Battery Over Hot: Alarming and Shut Down
- Low Oxygen Concentration: Alarming
- No Breath Detected: Alarming
- No Flow: Alarming
- Low Battery: Alarming



Technical data



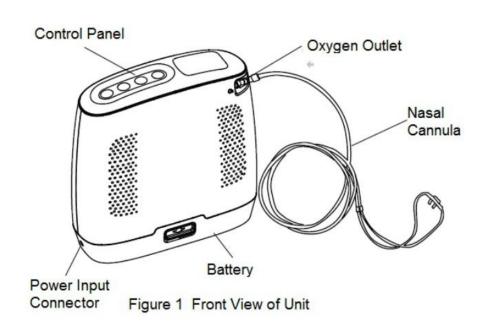
Spirit-3

Small, Portable, Battery Inside, Medical grade

- Flow Range:3.75L/min
- Oxygen Concentration:96%~90%
- Maximum Outlet Pressure:150kPa
- Sound Level:≤55dB(A)
- Net weight: 1.7kg (without battery);2.2kg(with battery)
- Dimensions:22*8*22(cm)



Overview



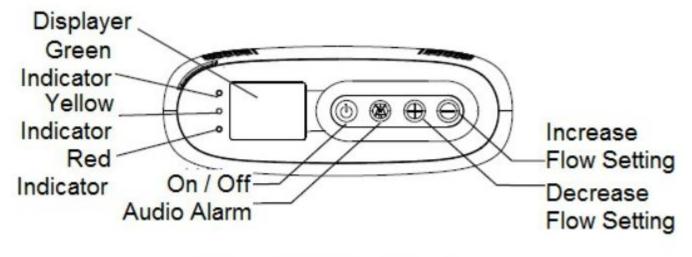
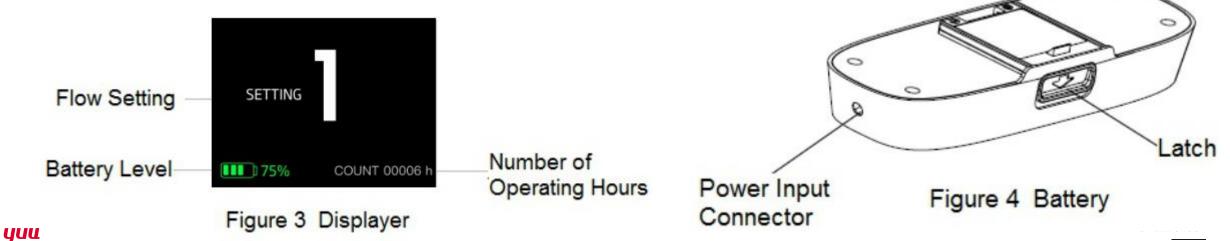


Figure 2 Control Panel





Operation

3. Flow Setting(+/-)

1. Power on







Video



Fast charge pack (Optional)







Charging time:

From 3 hours 40 minutes

(Standard battery)



to 2 hours

(Fast charge battery)



Alarms & solutions





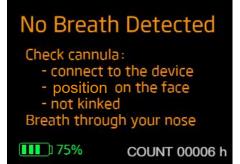
Hot System Use backup O₂ source Contact equipment provider

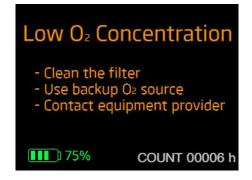


(e.g.: check compressor) (change the battery)

(pressure high/low) (e.g.: check the rubber rings) (e.g.: check fan)





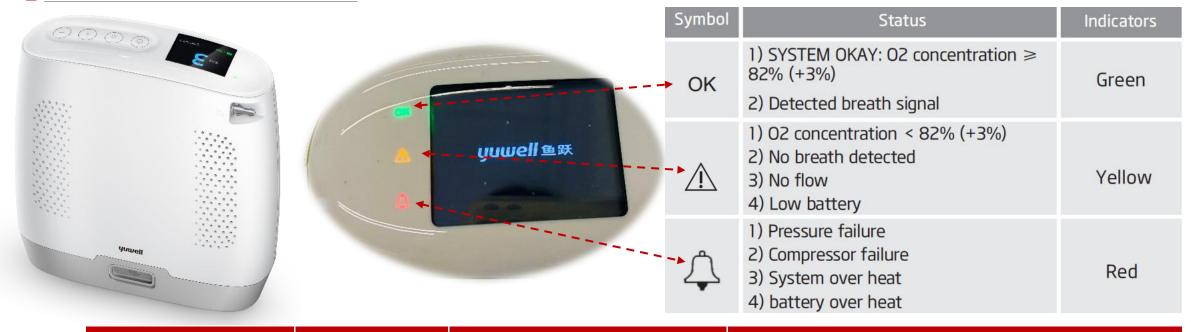






(pipeline is blocked)

Alarm Signals



	Light color	Buzzer	Machine status	Solution		
	<mark>Green</mark>	1	Ok	1		
	Yellow	Alarm	Keep working	1.contact the supplier immediately2.Can continue to use the device3.Have alternate oxygen source nearby		
ı	Red	Alarm	Shutdown	1.Turn off the device immediately2.Use the alternate oxygen source3.contact the supplier		

Maintenance - Cabinet and Nasal cannula





Nasal cannula:

- can only be reused by individuals
- Change: replace every 2 weeks
- Wash: put into 70-80% medical alcohol, cover and soak for 30 minutes for disinfection.

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Cabinet:

cloth

^{*} Prepare the backup oxygen resource, like Oxygen bag, if used for long time

Maintenance -Battery



- Wipe the battery case at least once a month
- With clean and soft cotton cloth or sponge



 Store the battery separately in a cool and dry place if not use for a period of time



- Avoid long-term operation at the temperature
 ≤5 °C or ≥40°C
- * Battery working temperature: 5 °C 40 °C

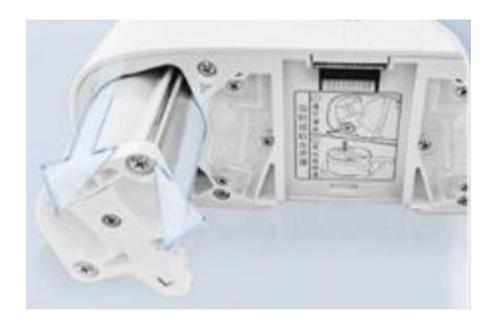




Maintenance – sieve beds

• Detachable sieve beds





Maintenance - Filter felt

Disassembly

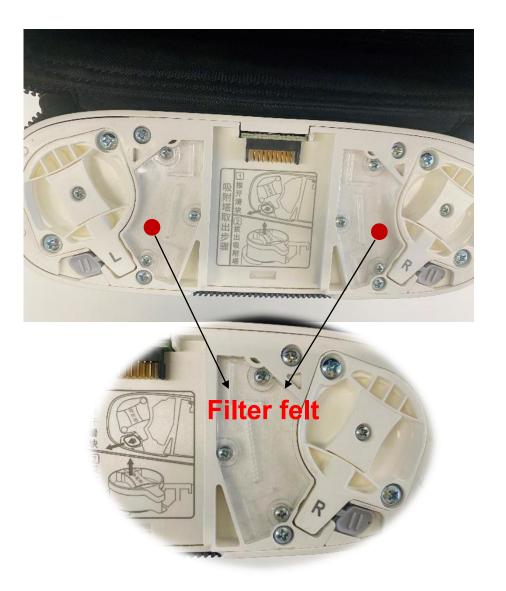


- 1. Remove the battery
- 2. Screw out the screw
- 3. Remove the filter felt



Replace

- Every 100 hours
- The filter is dirty
- The actual cleaning time is not fixed





Marketing













Brand	Yuwell	Inogen	Philips	Caire	Invacare	GCE
Model	Spirit-3	One G4	SimplyGo Mini	Freestyle	Platinum	Zen-O lite
Max oxygen flow(ml/min)	750	1000	1000	1050	1000	1050
Oxygen concentration	90%-96%	87%-96%	87%-96%	87%-95.5%	87% - 95.6%	87% - 96%
Sound pressure level (dB(A))	≤55 @Setting 4	40 @Setting 2	46 @ Setting 5	39.9 @ Setting 2	≤65 @ Setting 4-5	38@ Setting 2
Weight (single battery) (kg)	2.2	1.27	2.3	2.3	2.18	2.5
Dimension (cm)	22×8×22	15.01x6.8x18.2	23.9x9.1x21.1	25.4×7.9×18.5	23.9 x9.4x18.8	24.9×9.7×23.1
Battery duration (hours)	5	2.4	4.5	8	5	5
Battery charge time (hours)	3.6	3	4	3.5	2.3	-
Altitude (m)	5000	3048	3048	3048	3048	4000

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Thanks