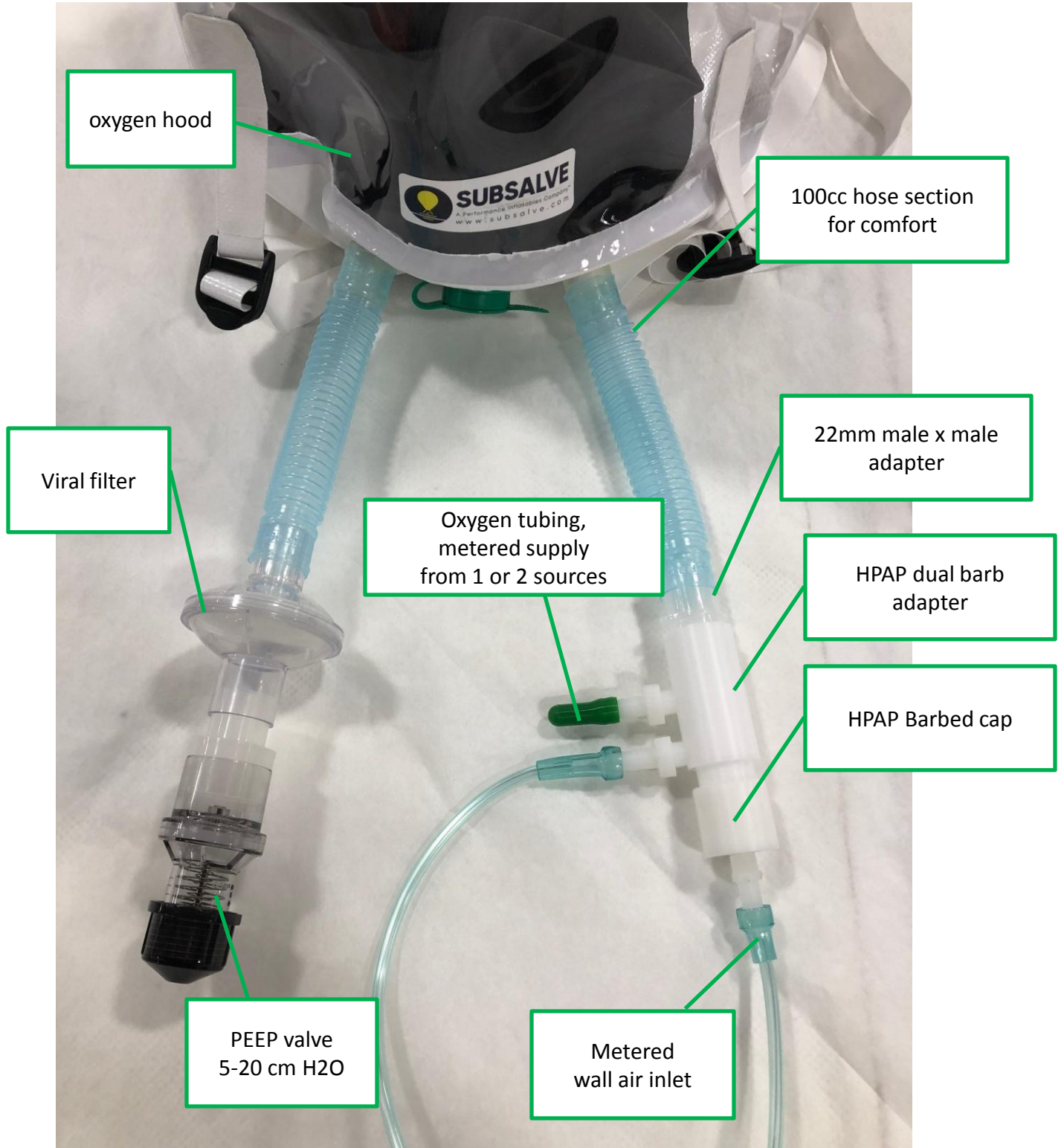


Wall Gas Titration Configuration Guide

The below presents a simplified circuit for titrating wall gasses (air and oxygen) to deliver positive pressure and elevated FiO₂.



Wall Gas Titration Configuration Guide

High Flow Air & Oxygen Titration (wall gas only)					
Flow introduced in to HPAP system				Total Flow (LPM)	FiO2
Air supply (LPM)	Oxygen supply 1 (LPM)	Oxygen supply 2 (LPM)	Oxygen supply 3 (LPM)		
120				120	0.21
100	0			100	0.21
100	5			105	0.25
100	10			110	0.28
100	20			120	0.34
60	0			60	0.21
60	5			65	0.27
60	10			70	0.32
60	20			80	0.41
60	30			90	0.47
60	30	5		95	0.50
60	30	10		100	0.53
60	30	20		110	0.57
60	30	30		120	0.61
30	30			60	0.61
30	30	5		65	0.64
30	30	10		70	0.66
30	30	20		80	0.70
30	30	30		90	0.74
30	30	30	5	95	0.75
30	30	30	10	100	0.76
30	30	30	20	110	0.78
30	30	30	30	120	0.80
15	30	20		65	0.82
15	30	30		75	0.84
15	30	30	5	80	0.85
15	30	30	10	85	0.86
15	30	30	20	95	0.88
15	30	30	30	105	0.89
10	30	30		70	0.89
10	30	30	5	75	0.89
10	30	30	10	80	0.90
10	30	30	20	90	0.91
10	30	30	30	100	0.92
5	30	30		65	0.94
5	30	30	5	70	0.94
5	30	30	10	75	0.95
5	30	30	20	85	0.95
5	30	30	30	95	0.96
	30	30		60	1.00
	30	30	5	65	1.00
	30	30	10	70	1.00
	30	30	20	80	1.00
	30	30	30	90	1.00

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Assumptions FiO2 is calculated; analytical results may vary 120 LPM max gas flow 30 LPM max O2 flow per supply 60 LPM required to mitigate CO2 rebreathing	Color Legend minimum to prevent CO2 total flow oxygen sufficient flow alone insufficient flow alone
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Notes

- >60LPM total flow is required for mitigating CO2 rebreathing.
- This flow can be made up from multiple wall-gas sources with known flow rates.
- It is recommended to humidify one of the oxygen supplies.

Instructional Guidance

Configuration

- Configure hood as pictured. Change filter every 8 hours or as needed.

Flow

- Establish flow to >60LPM. Flow is gauged as the sum from all wall flowmeters.

Pressure

- Use the PEEP valve (5-20 cmH2O) to regulate positive pressure at the patient.

Oxygen/FiO2

- Select desired FiO2 using the table and adjust flow sources (blending of air and oxygen).
- If adjusting FiO2, maintain at least the flow columns in yellow while transitioning to ensure adequate flow.

Monitor

- Monitor PEEP pressure using a manometer in the circuit if desired.

- Monitor patient vitals and oxygen saturation.

Treatment

- Implement treatment and monitor patient according to clinical best practices.