



## The Latest Innovation in a disposable CPAP System that uses over 50% Less Oxygen Consumption while Delivering High FiO<sub>2</sub> using Standard Flowmeters . . .



- Over 50% Less Oxygen Consumption using Standard Flowmeters. . . . . X
- Built-In Manometer on Every Device  
Manometer Accuracy +/- 3 H<sub>2</sub>O up to 15 cm H<sub>2</sub>O . . . . . X
- High FiO<sub>2</sub> Delivery . . . . . X
- Consistent CPAP Pressure (± 1 cm H<sub>2</sub>O during “forced” Breathing) . . . . . X
- Built-In Pressure Relief Valve  
Limits Maximum CPAP Pressure to 25 cm H<sub>2</sub>O +/- 5 cm H<sub>2</sub>O . . . . . X
- Highly Portable (No costly flow generator repairs or downtime)
- Completely Disposable, Latex-Free CPAP System . . . . . X
- Easy Set-Up  
Includes Mask, Manometer, Pressure Relief Valve and Head Harness, just requires O<sub>2</sub> source and standard flowmeter to operate. CPAP unit only also available . . . X
- Color-Coded for Easy Size Identification . . . . . X
- Clinicians can add a Nebulizer  
Combining Aerosol Delivery and CPAP Therapies . . . . . X
- Accepts 22mm Filter . . . . . X
- Accepts 15 mm/22 mm CO<sub>2</sub> Sampling Lines without additional adapters . . . . . X
- Standard 15 mm/22 mm port size . . . . . X
- Choice of mask styles . . . . . X

Flow-Safe II pictured with Deluxe Contoured Mask, Built-in Manometer and Built-in Pressure Relief Valve. Deluxe mask features Elastic Head Harness, Quick Disconnect Clips, Straight Rotating Port and Soft Forehead Padding that takes pressure off the nose and easily adjusts for patient comfort. T-piece and Nebulizer are available separately.



Quick Connect Clips

### Flow vs Pressure

Flow (LPM)	Lightweight & Portable	
	80 grams nominal (less mask & harness) 90 mm X 53 mm X 65 mm (unit only)	
	CPAP/PEEP (approx. cm H <sub>2</sub> O)	
6	2.0 - 3.0	
10	6.0 - 7.0	
12	8.0 - 9.0	
15	11.0 - 12.0	
8 - 9	5.0	
10 - 12	7.5	
13 - 14	10.0	
Flush	13.0 (Max.)	

### O<sub>2</sub> Tank Time Chart

Flow/L/Min.	D Cylinder	E Cylinder	M Cylinder
5	70	123	703
6	58	102	598
8	44	77	498
10	35	61	374
12	29	51	299
15	23	41	199

Patent # US 5,557,049 B1  
Other Patents Pending

### FiO<sub>2</sub> Delivery

CPAP Pressure (approx. cm H <sub>2</sub> O)	6.6	Tidal Vol (mL)	10 BPM	15	20	25	30	35	40
Flow Meter Setting (LPM)	10	250	100	100	100	84	74	66	61
I:E Ratio	1:1	500	100	74	61	53	47	44	41
		750	74	56	47	42	39	36	34
		1000	61	47	41	37	34	32	31
		1250	53	42	37	34	32	30	29
		1500	47	39	34	32	30	29	28
CPAP Pressure (approx. cm H <sub>2</sub> O)	11.4	Tidal Vol (mL)	10 BPM	15	20	25	30	35	40
Flow Meter Setting (LPM)	15	250	100	100	100	100	100	89	80
I:E Ratio	1:1	500	100	100	80	68	61	55	51
		750	100	74	61	53	47	44	41
		1000	80	61	51	45	41	38	36
		1250	68	53	45	40	37	35	33
		1500	61	47	41	37	34	32	31



### Ordering Information

All Flow-Safe items include a Manometer, Pressure Relief Valve and 7' Oxygen Tubing

Product Number	Description	Quantity
#10-57200	Flow-Safe II CPAP with large adult cushion mask, blue headstrap	5/Box
#10-57201	Flow-Safe II CPAP with small adult cushion mask, blue headstrap	5/Box
#10-57202	Flow-Safe II CPAP with child cushion mask, blue headstrap	5/Box
#10-57203	Flow-Safe II CPAP without mask	5/Box
#10-57206	Flow-Safe II CPAP with large adult deluxe mask with 90° elbow, anti-asphyxia, head harness	5/Box
#10-57207	Flow-Safe II CPAP with small adult deluxe mask with 90° elbow, anti-asphyxia, head harness	5/Box
#10-57208	Flow-Safe II CPAP with child deluxe mask with 90° elbow, anti-asphyxia, head harness	5/Box
#10-57209	Flow-Safe II CPAP with large adult deluxe mask with straight swivel port, head harness	5/Box
#10-57210	Flow-Safe II CPAP with small adult deluxe mask with straight swivel port, head harness	5/Box
#10-57211	Flow-Safe II CPAP with child deluxe mask with straight swivel port, head harness	5/Box
#10-57212	Flow-Safe II CPAP with large adult cushion mask with valve, blue headstrap	5/Box
#10-57213	Flow-Safe II CPAP with small adult cushion mask with valve, blue headstrap	5/Box
#10-57214	Flow-Safe II CPAP with child cushion mask with valve, blue headstrap	5/Box
#10-57215	Flow-Safe II CPAP with intermediate large adult cushion mask with valve, black headstrap	5/Box
#10-57216	Flow-Safe II CPAP with intermediate small adult cushion mask with valve, black headstrap	5/Box
#10-57217	Flow-Safe II CPAP with intermediate child cushion mask with valve, black headstrap	5/Box
#10-57218	Flow-Safe II CPAP with large adult deluxe mask with straight fixed port, head harness	5/Box
#10-57219	Flow-Safe II CPAP with small adult deluxe mask with straight fixed port, head harness	5/Box
#10-57220	Flow-Safe II CPAP with child deluxe mask with straight fixed port, head harness	5/Box
#10-57221	Flow-Safe II CPAP with large adult deluxe mask with straight swivel port, headstrap, nebulizer, Tee, O <sub>2</sub> tubing	5/Box
#10-57222	Flow-Safe II CPAP with small adult deluxe mask with straight swivel port, headstrap, nebulizer, Tee, O <sub>2</sub> tubing	5/Box
#10-57223	Flow-Safe II CPAP with child deluxe mask with straight swivel port, headstrap, nebulizer, Tee, O <sub>2</sub> tubing	5/Box



*A major leap in product innovation, it takes Emergency Care to a whole new level.*

- CPAP & Nebulizer System in One
- Only One O<sub>2</sub> Source
- Less Parts, Easy Set-up

**Flow-Safe II EZ Advantages**

- **Integrated Nebulizer**  
The Flow-Safe II EZ offers the capability of an in-line nebulizer. Uses **only one** oxygen supply source combining Aerosol Delivery & CPAP Therapies ..... X
- **Built-In Manometer on Every Device**  
Manometer Accuracy +/- 3 H<sub>2</sub>O up to 15 cm H<sub>2</sub>O ..... X
- **High FiO<sub>2</sub> Delivery** ..... X
- **Consistent CPAP Pressure (± 1 cm H<sub>2</sub>O during "forced" Breathing)** .... X
- **Built-In Pressure Relief Valve**  
Limits Maximum CPAP Pressure to 25 cm H<sub>2</sub>O +/- 5 cm H<sub>2</sub>O ..... X
- **Highly Portable (No costly flow generator repairs or downtime)**
- **Completely Disposable, Latex-Free CPAP System** ..... X
- **Easy Set-Up**  
Includes Mask, Manometer, Pressure Relief Valve and Head Harness, just requires O<sub>2</sub> source and **standard flowmeter** to operate. CPAP unit only also available ..... X
- **Color-Coded for Easy Size Identification** ..... X
- **Accepts 15 mm/22 mm CO<sub>2</sub> Sampling Lines without additional adapters** ..... X
- **Standard 15 mm/22 mm port size** ..... X
- **Choice of mask sizes** ..... X



Flow-Safe II EZ pictured with Deluxe Contoured Mask, Built-in Manometer and Built-in Pressure Relief Valve. Deluxe mask features Elastic Head Harness, Quick Disconnect Clips, Straight Rotating Port and Soft Forehead Padding that takes pressure off the nose and easily adjusts for patient comfort.

**O<sub>2</sub> Tank Time Chart\***

Flow/L/min	D Cylinder	E Cylinder	M Cylinder
5	70	123	703
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8	44	77	498
10	35	61	374
12	29	51	299
15	23	41	199

Minutes of oxygen by cylinder size based on full 2000 PSI cylinders  
\*Conducted by an Independent Test Lab  
Additional flow is required when using the nebulizer.

**Sample Guidelines for Preparing RX Dosing**

Flowmeter Setting L/min	14 ~ 15				23 ~ 24			
CPAP Pressure cm H <sub>2</sub> O	4 ~ 5				9 ~ 10			
Flow through EZflow® MAX	6 L/min				10 L/min			
Output	12 mL/hour				16 mL/hour			
RX (mg/hour)	5	10	15	20	5	10	15	20
Treatment Duration (hours)	1	2	1	2	1	2	1	2
Medication @ 5mg/mL (mL)	1	2	2	4	3	6	4	8
Saline (mL)*	11	22	10	20	9	18	8	16

\* Rounded to the nearest mL

**EXAMPLE:**

To deliver 10 mg/hour of 5 mg/mL medication at 10 L/min; 1.5 Hour Duration: Place 3 mL of medication + 21 mL of Saline into nebulizer reservoir and run for 1.5 hours.

**CAUTION:** The listed output is nominal value only, actual output may vary depending on device, accuracy of flowmeter, and the existence of tubing connection leaks. Follow up output checks are recommended and flowmeter adjustments may be necessary.

**Flow-Safe II EZ Ordering Information**

Product Number	Description	Quantity
10-57318	Flow-Safe II EZ, Large Adult Deluxe Mask with Black O <sub>2</sub> Ports and EZFlow Max® Nebulizer	5/Box
10-57319	Flow-Safe II EZ, Small Adult Deluxe Mask with Black O <sub>2</sub> Ports and EZFlow Max® Nebulizer	5/Box
10-57320	Flow-Safe II EZ, Child Deluxe Mask with Black O <sub>2</sub> Ports and EZFlow Max Nebulizer	5/Box
10-57321	Flow-Safe II EZ, without Mask, with EZ Flow Max Nebulizer	5/Box

**FiO<sub>2</sub> Delivery**

		Tidal Vol (mL)	10 BPM	15	20	25	30	35	40
Flow Meter Setting (LPM)	10	250	100	100	100	84	74	66	61
CPAP, Neb off, approx. Cm H <sub>2</sub> O	6.1	500	100	74	61	53	47	44	41
CPAP, Neb on, approx. Cm H <sub>2</sub> O	2.5	750	74	56	47	42	39	36	34
I:E Ratio	1:1	1000	61	47	41	37	34	32	31
		1250	53	42	37	34	32	30	29
		1500	47	39	34	32	30	29	28
		Tidal Vol (mL)	10 BPM	15	20	25	30	35	40
Flow Meter Setting (LPM)	15	250	100	100	100	100	100	89	80
CPAP, Neb off, approx. Cm H <sub>2</sub> O	11	500	100	100	80	68	61	55	51
CPAP, Neb on, approx. Cm H <sub>2</sub> O	4.5	750	100	74	61	53	47	44	41
I:E Ratio	1:1	1000	80	61	51	45	41	38	36
		1250	68	53	45	40	37	35	33
		1500	61	47	41	37	34	32	31

Flow (LPM)	CPAP Pressure (cm H <sub>2</sub> O) Nebulizer Off	CPAP Pressure (cm H <sub>2</sub> O) Nebulizer On	CPAP Pressure (cm H <sub>2</sub> O)	Flow (LPM) Nebulizer Off	Flow (LPM) Nebulizer On
6	2.0 - 3.0	1.0 - 2.0	5.0	8 - 9	15 - 16
10	6.0 - 7.0	2.0 - 3.0	7.5	10 - 12	19 - 20
12	8.0 - 9.0	3.0 - 4.0	10.0	13 - 14	24 - 25
15	11.0 - 12.0	4.0 - 5.0	13.0 (Max)	FLUSH	28 - 30

**CAUTION:** CPAP pressure will decrease when nebulizer is activated and increase when nebulizer is deactivated. Verify CPAP pressure with manometer and adjust flowmeter as needed.

All Flow-Safe configurations include a Manometer, Pressure Relief Valve and 7' Oxygen Tubing

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