

BLS Systems Introduces the

FLO₂MAX Filtered Oxygen Therapy Mask



The Next Generation in Oxygen Therapy

- **Deliver from 30% - 99% Oxygen; Low - Medium - High oxygen concentrations with one mask.**
- **Compatible with standard Nebulizer for Drug therapy.**
- **All patient exhalation is filtered through submicron, hydrophobic 3M™ filter. Protects healthcare workers *and* patients.**

Other features include

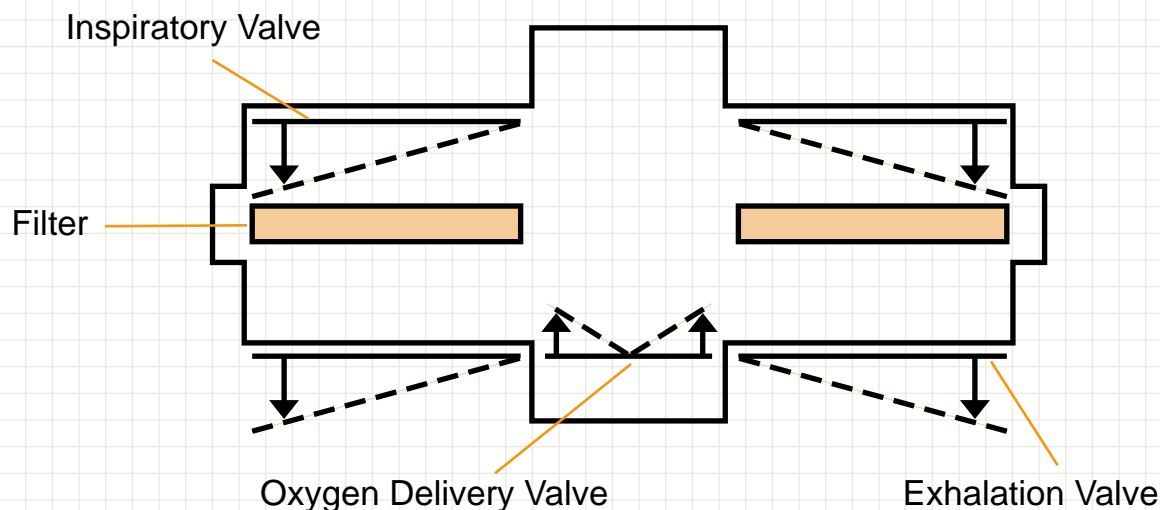
- ❑ A closed mask breathing system with integral 3M™ filter maintains respiratory isolation during oxygen and drug aerosol therapy, reducing the risk of airborne infections such as SARS and influenza.
- ❑ Over 99.9% bacterial and viral filtration efficiency.
- ❑ Extra large oxygen reservoir ensures highest possible oxygen concentration while intake valve allows patient to make-up air from atmosphere if necessary.
- ❑ 3 mask sizes (Large Adult, Small Adult and Child) ensure best fit possible.
- ❑ Cost effective; Replace Low, Med, High Oxygen concentration and nebulizer masks with one mask.
- ❑ 100% latex free and disposable.
- ❑ Patent pending.



Valve Opening Sequence

The FLO₂MAX oxygen facemask has three highly sensitive one-way valve systems that deliver exactly the percentage of oxygen the patient requires by simply adjusting the flowmeter - from 30% to 99%. The sequence of the valve opening order starts when the patient makes an inspiratory effort of 1cm H₂O//sec. causing the oxygen delivery valve to open; the patient inhales. The exhalation valve cracks at about 1.20cm.H₂O//sec. and exhalation occurs normally.

At times a patient's peak inspiratory flowrate will exceed the flow rate of the supplied oxygen; if that happens the inspiratory valve to atmosphere will open at 1.30cm.H₂O//sec., allowing supplementary air to match their inspiratory effort and minute volume. If the oxygen supply should cease flowing to the facemask, the patient would breathe normally through the Inspiratory valve exhale through the filter and exhalation valve.



When using a nebulizer with the FLO₂MAX the oxygen delivery valve will open upon inspiration allowing the medication to travel to the patient. All excess medication and patient exhalation travels through the 3M filter and out the exhalation valve, thereby protecting the care giver from unwanted exposure to medication and possible infection.

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The FLO₂MAX Filtered Oxygen Therapy Mask *How it works*

2 Headstraps and flexible aluminum nose piece help ensure airtight fit

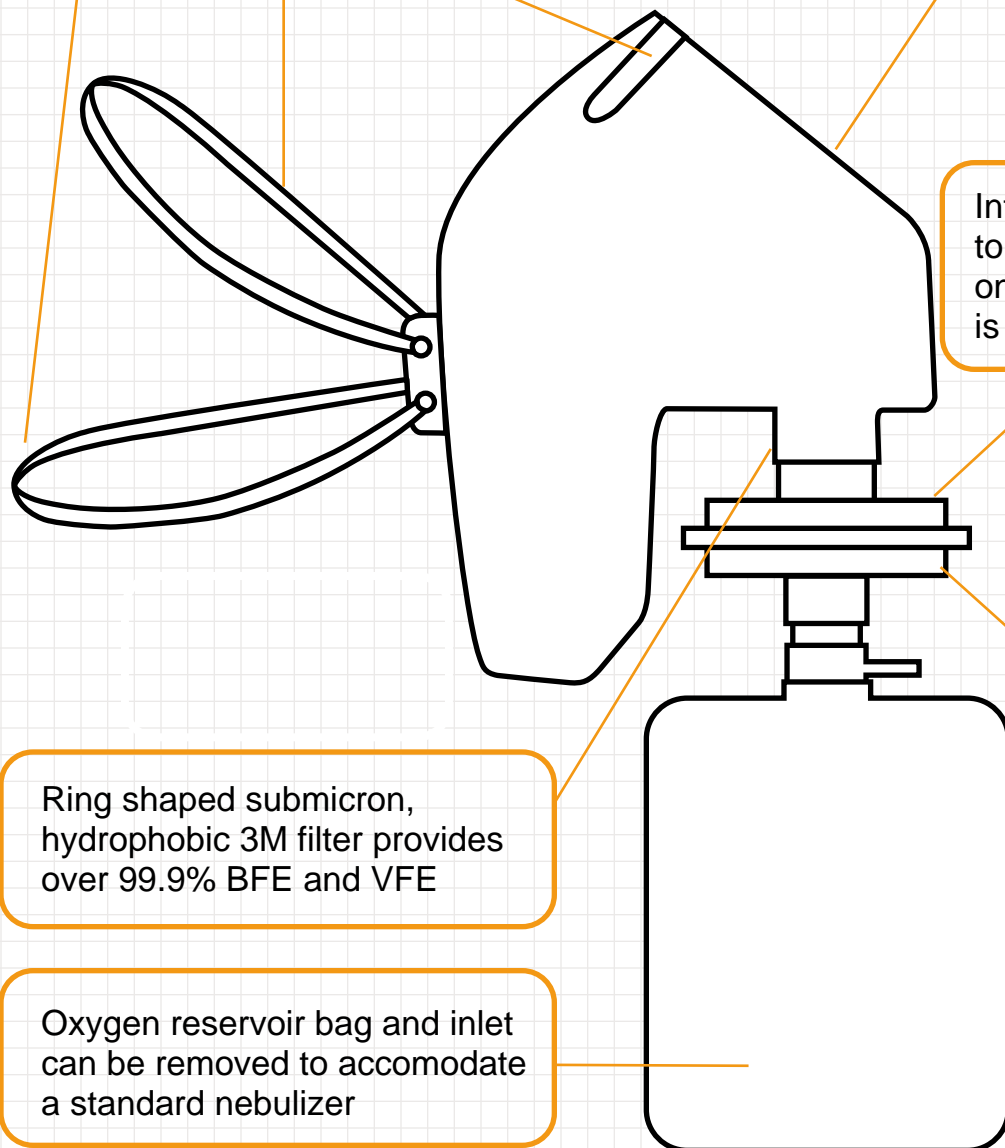
Latex free closed system mask is made of soft durometer plastic and comes in 3 sizes to ensure comfort and fit

Intake valve allows patient to breathe from atmosphere only after oxygen reservoir is depleted

All patient exhalation passes through a 3M filter and out the exhalation valve

Ring shaped submicron, hydrophobic 3M filter provides over 99.9% BFE and VFE

Oxygen reservoir bag and inlet can be removed to accommodate a standard nebulizer



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FLO₂MAX vs. Standard Oxygen Therapy Mask

The FLO₂MAX has a closed isolation system which ensures that concentrations are delivered easily and economically.

Delivery of high oxygen concentrations with a standard non-rebreathing facemask can be difficult because of leaks and the removal of side vent flap valves.

With the FLO₂MAX closed isolation system all exhalation passes through an integral 3M™ filter, thereby reducing the risk of communicable respiratory disease, such as SARS or influenza.

Studies have concluded that infectious disease can be transmitted to healthcare workers and other patients through exhaled, viral-laden droplets emanating from the side vent flap valves of standard non-rebreathing facemasks.

When using the FLO₂MAX, the inhalation and exhalation valves will open should the oxygen supply stop or be reduced, allowing the patient to breathe normally.

It can be hazardous to a patient should the oxygen flow stop or be reduced when using a standard non-rebreathing facemask. If this happens, the healthcare worker must remove the side vent flap valves in order for the patient to inhale; this could be critical, especially if the patient has a compromised lung condition.

The FLO₂MAX has a patented valve system which allows the patient to receive the amount of make-up air needed to match the patient's peak inspiratory flow rate or high minute volume. This keeps the patient's work of breathing to a minimum and the oxygen concentration remains stable. Respiration is constantly filtered.

The only way a standard non-rebreathing facemask can handle a patient's high minute volume or peak inspiratory flow rate that exceeds the determined oxygen flow rate, is to remove one or both of the side vent flap valves. When these are removed, the desired oxygen concentrations are lost and the patient's condition is compromised.

The FLO₂MAX integrated filter system allows use of a standard nebulizer to administer drug therapy without removing the mask from the patient and without the risk of airborne infection.

The standard non-rebreathing facemask must be removed to allow administration of inspired medication; this puts the healthcare worker at risk in an infection control situation.

Product Number	Description
6100	Large Adult FLO ₂ MAX Mask with O ₂ reservoir and tubing
6100	Child FLO ₂ MAX Mask with O ₂ reservoir and tubing
6105	Small Adult FLO ₂ MAX Mask with O ₂ reservoir and tubing
6250-N	Rescuer Nebulizer

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