

Low Flow Blenders

Ohio Medical's Medical Air/O₂ Blenders combine compressed Medical Air and Oxygen to deliver blended pressurized gas at a precise oxygen concentration (FiO₂) determined by the user. These blenders are suitable for respiratory applications including routine therapy, ventilator gas supply, sophisticated life-support and critically-limited NICU procedures. Most models can be customized to include a flowmeter attachment with a variety of flow rates available.

Ohio Medical offers three Low Flow Blenders for various hospital settings. Two of these models (NEO₂ Blend and Low Flow with ON/OFF Bleed Knob) feature a bleed control which is used to increase flow accuracy and conserve gas. When the bleed switch or knob is in the ON position the bleed flow (3 lpm) allows accuracy below 3 lpm on the left and/or bottom ports. When the blender is not in use, turn the switch or knob in the OFF position to restrict the bleed flow (3 lpm) from being bled into the air. Not turning the bleed flow off results in wasting O₂ at 3 lpm even when the flowmeter(s) are off.

The Low Flow Blenders have flows from 0-30 lpm and are ideal for NICU and Newborn Nursery or any application requiring a flow of 30 lpm or less.

NEO₂ Blend

The NEO₂ Blend is specifically designed for the NICU and features a unique ON/OFF bleed switch which is used to increase accuracy when needed and conserve gas when not in use. The right flowmeter is assembled into the switch. To turn off the bleed flow (3 lpm) simply rotate the flowmeter forward. Rotate the flowmeter back to the upright position and the bleed resumes. It's clear to see from across the room whether the bleed is on or off and you never have to disconnect the flowmeter from the blender.

This two port blender has two assembled flowmeters which allow for the smallest footprint possible. The left side port has a 0-15 lpm flowmeter which can be used to connect to a resuscitation bag. The right side port features an assembled 0-1 lpm flowmeter which can be used to connect to a nasal cannula or mask. With the Bleed Switch ON both flowmeters are accurate from zero flow and up.



6750-0018-907 (NEO₂ Blend)
with assembled 0-15 and 0-1 lpm Flowmeters.
Equipped with the unique ON/OFF Bleed Switch

Low Flow with ON/OFF Bleed Knob

This model has an ON/OFF Bleed Knob on the right side of the blender. The bleed knob is used for increased accuracy (ON) or to conserve gas (OFF). There are two output ports with DISS fittings, one on the left side and one on the bottom of the blender. The left port can be configured with either a 0-1, 0-3.5 or 0-15 lpm flowmeter. With the Bleed Knob ON both flowmeters are accurate from zero flow and up.



6750-0019-907
Low Flow with ON/OFF
Bleed Knob and 2 ports

Low Flow

The Standard Low Flow Blender is very versatile. There are two output ports with DISS fittings on the left and right side, available for configuration with flowmeters ranging from 0-1, 0-3.5 and 0-15 lpm. When a flowmeter is connected on the right port, accurate flow can be delivered from zero flow and up from both ports.



6750-0020-907
Low Flow with 2 ports

TECHNICAL SPECIFICATIONS

Oxygen concentration control adjustment range: 21% to 100%

Overall flow range: 0 - 30 lpm

Bleed flow @ Auxiliary Port: up to 3 lpm

Maximum flow: ≥30 lpm @ 60% setting & 50 psi (345 kPa) inlet pressures.

Bypass flow (loss of air or oxygen): 30 lpm

Supply pressures: 30-75 psi (207-517 kPa) and medical air & oxygen must be within 10 psi (69 kPa) of each other.

Pressure drop: <6 psi (42 kPa) at 50 psi (345 kPa) inlet pressure

Accuracy: ±3% of full scale

Alarm/Bypass Activation: When inlet gas pressures differ by 20 psi (138 kPa)

Alarm sound generator: Reed alarm

Alarm sound intensity: 80 dB, 1 ft minimum

Alarm/Bypass reset: When inlet gas pressure differential is ≥6 psi (42 kPa)

Gas outlet connectors: Type "DISS", O₂

Gas inlet connectors: Type "DISS", Medical Air (male) and O₂ (female)

Note: 15 psi = 104 kPa

Note: Ohio Medical's Medical Air/O₂ Blenders are compatible with Ethylene Oxide Gas (ETO) Sterilization.

- *Specifications are nominal, subject to change without notice. International options are also available.*
- *Note: Ohio Medical's Medical Air/O₂ Blenders are compatible with Ethylene Oxide Gas (ETO) cold sterilization.*
- *Attached Flowmeters are connected with DISS Handtight fittings.*
- *Other configurations available; please contact your sales representative for details.*

| Model Number | Weight* | Dimensions | Auxiliary Ports |
|--|--------------------|---|--|
| 6750-0018-9XX NEO ₂ Blend with assembled Flowmeters. | 3.35 lbs (1.52 kg) | 8.1"W x 6.5"H x 4.6"D (20.6 x 16.5 x 11.7 cm) | Left: 3-15 lpm (bleed OFF) 0-15 lpm (bleed ON) Right: 0-1.0 lpm (bleed ON) 6750-0018-907 0-3.5 lpm (bleed ON) 6750-0018-919 0-15 lpm (bleed ON) 6750-0018-910 Bottom: plugged |
| 6750-0019-907 Low Flow Blender with ON/OFF Bleed Knob, plain/no flowmeter | 2.55 lbs (1.16 kg) | 4.6"W x 5.4"H x 4.6"D (11.7 x 13.7 x 11.7 cm) | Left: 3-30 lpm (bleed OFF) 0-30 lpm (bleed ON) Right: Knob to switch bleed ON & OFF Bottom: 3-30 lpm (bleed OFF) 0-30 lpm (bleed ON) |
| 6750-0020-907 Low Flow Blender, plain/no flowmeter | 2.45 lbs (1.11 kg) | 4.8"W x 5.4"H x 4.6"D\ (12.2 x 13.7 x 11.7 cm) | Left: 3-30 lpm (bleed OFF) 0-30 lpm (bleed ON) Right: 0-30 lpm (bleed ON) Bottom: plugged |

*Weights are approximate

| Description | Part Number |
|--|---------------|
| NEO ₂ Blend with assembled 0-15 and 0-1 Flowmeters. Also equipped with a unique on/off bleed switch | 6750-0018-907 |
| NEO ₂ Blend with assembled 0-15 lpm and 0-3.5 lpm Flowmeters. Also equipped with a unique on/off bleed switch | 6750-0018-919 |
| NEO ₂ Blend with assembled 0-15 lpm and 0-15 lpm Flowmeters. Also equipped with a unique on/off bleed switch | 6750-0018-910 |
| Low Flow Blender with on/off Bleed Knob (left and bottom port) | |
| Plain/No Flowmeters | 6750-0019-907 |
| Attached 0-1 Flowmeter (left) | 6750-0019-908 |
| Attached 0-3.5 Flowmeter (left) | 6750-0019-909 |
| Attached 0-15 Flowmeter (left) | 6750-0019-910 |
| Low Flow Blender (left and right port) | |
| Plain/No Flowmeters | 6750-0020-907 |
| Empty (left)/Attached 0-15 (right) Flowmeter | 6750-0020-910 |
| Attached 0-15 (left)/ 0-1 (right) Flowmeters | 6750-0020-918 |
| Attached 0-15 (left)/ 0-3.5 (right) Flowmeters | 6750-0020-919 |



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