

RHYTHM PEDIATRIC FLOWMETER



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SYMBOLS

Symbols apply to hazards or unsafe practices which could result in personal injury or property damage.

	No Smoking
	No Open Flame
	Warning
	Caution




PROVIDER:

These instructions *MUST* be given to the user of the product.

USER:

Read and understand this manual before using this product. If you have any questions, call your provider before using. Please save the manual for future reference.

SAFETY

	<p>WARNING</p> <p>Do not use this product without completely reading and understanding these instructions and any additional instructional material such as owner's manual, service manual or other instructions supplied with this product or optional equipment. If you are unable to understand the WARNINGS, CAUTIONS, or INSTRUCTIONS, please contact your provider before attempting to use this equipment, otherwise injury or damage may occur.</p>
	<p>ACCESSORIES WARNING</p> <p>This product is specifically designed and manufactured for use in conjunction with dedicated accessories. Accessories designed by other manufacturers have not been tested by the manufacturer are not recommended for use with this product.</p>
	<p>DO NOT SMOKE while using this device. Keep all matches, lit cigarettes, or other sources of ignition out of the room in which this product is located and away from where oxygen is being delivered.</p> <p>NO SMOKING signs should be prominently displayed. Textiles and other materials that normally would not burn are easily ignited and burn with great intensity in oxygen enriched air. Failure to observe this warning can result in severe fire, property damage and cause physical injury or death.</p> <p>Spontaneous and potentially severe ignition may occur if oil, grease, or oily substances come in contact with oxygen under pressure. Avoid lotions, sunblock and other oily or greasy products. If you use these types of products, wash your hands thoroughly prior to using the flowmeter. These substances MUST be kept away from the oxygen concentrator, tubing and connections, and all other oxygen equipment.</p> <p>DO NOT use any lubricants.</p> <p>The Flowmeter is designed for an input pressure of 5 ± 0.5 PSI (34.5 ± 3.45 kPa) only. The flowmeter is only applicable with oxygen concentrators with 5 ± 0.5 PSI (34.5 ± 3.45 kPa) output pressure.</p> <p>Keep out of reach of children.</p> <p>DO NOT disassemble. Refer servicing to authorized service personnel.</p>

INTRODUCTION

INCLUDED IN PACKAGE

Pediatric Flowmeter with Integrated Stand	1x
Tubing (CP) - 25 ft (Max.) (7.5 m)	1x
Tubing - 7 ft (2.1 m) total	2x
Connector	1x
Humidifier Bottle Adapter	1x
Manual	1x

SPECIFICATIONS

Input Pressure Rating	5 ± 0.5 PSI (34.5 ± 3.45 kPa)
Oxygen Input	2 L/min
Oxygen Output	0 - ¾ L/min (0 - 750 cc/min)
Flow Adjustable in Increments	1/16 L/min (50 cc/min)
Flow Accuracy	± 10% of full scale
Size (L x W x H)	4.72 x 4.76 x 5.93 in / 120 x 121 x 150.5 mm
Net Weight:	1.5lbs/ .68 kg
Operation Temperature	50°F to 104°F (10°C to 40°C)
Storage & Transport Temperature	-40°F to 158°F (-40°C to 70°C)

HANDLING AND UNPACKING/INSPECTION

1. Check for damage to carton or contents. If damage is evident, notify your carrier/dealer for further instruction.
2. Carefully remove all the components from the carton. Packing materials and carton should be kept for future use or discarded in accordance with local waste regulations.
3. Examine exterior of the flowmeter for dents, scratches, or other damage. Inspect all components.

STORAGE

1. Store the repackaged flowmeter in a dry area.
2. DO NOT place objects on top of the repackaged device.

USAGE



WARNING

Connect all tubing connections before placing cannula on patient. Possible water ingress through the tubing can occur if this sequence is not followed.

When adjusting the Rhythm Pediatric Flowmeter, the flowmeter on the oxygen concentrator **MUST** be set at 2.0 L/min. Failure to comply with this procedure will cause incorrect flow rates to the patient.

It is recommended to use crush resistant oxygen tubing with this product. If a humidifier bottle is not prescribed, the oxygen tubing is not to exceed 25 ft (7.5m) in total length from the Pediatric Flowmeter to the patient, and the total length of all ALL tubing **SHOULD NOT** exceed 50 ft (15.2.1 m).

If a humidifier bottle is prescribed, the oxygen tubing is not to exceed 25 ft (7.5 m) in total length from the humidifier bottle to the patient, and the total length of ALL tubing for the Pediatric Flowmeter **SHOULD NOT** exceed 39 ft (11.8 m).

INITIAL SET UP (for Use with or without Humidifier Bottle)

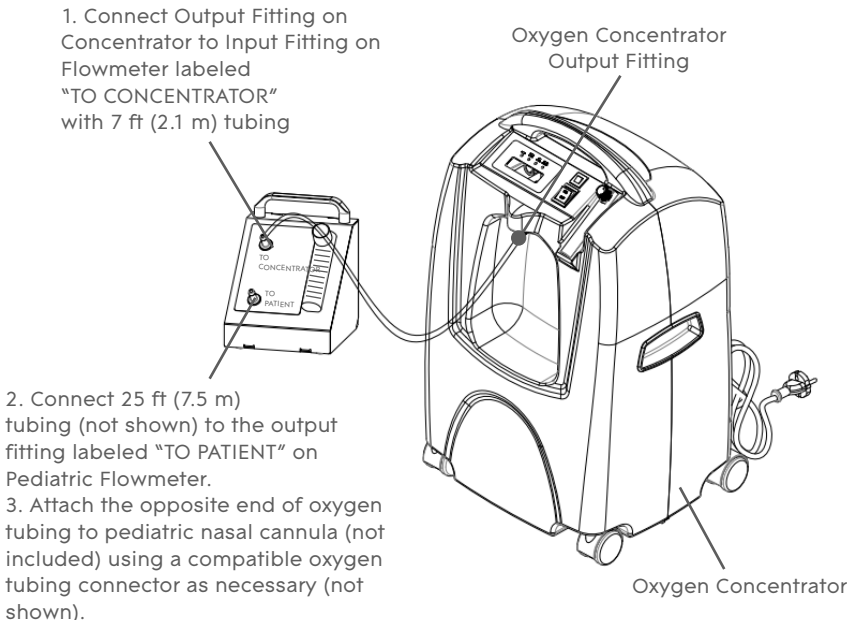
1. Place pediatric flowmeter stand on tabletop.
2. Turn flowmeter knob counterclockwise to the fully open position.
3. Press power switch to ON. Power light located on control panel will illuminate green, indicating that the system is functioning normally.
4. Set the oxygen concentrator to 2 L/min.
Allow concentrator to run for a minimum of 5 minutes to ensure proper concentration level.

SET UP (Without a Humidifier Bottle)

Refer to Figure 1.

1. Connect 7 ft (2.1 m) oxygen tubing from output fitting of oxygen concentrator to the input fitting labeled "TO CONCENTRATOR" of Pediatric Flowmeter.
2. Connect 25 ft (7.5 m) [max length] oxygen tubing (not shown) to output fitting labeled "TO PATIENT" on Pediatric Flowmeter.
3. Attach the opposite end of oxygen tubing to pediatric nasal cannula (not included) using a compatible oxygen tubing connector as necessary (not shown).

FIGURE 1



SET UP (with humidifier bottle, if prescribed)

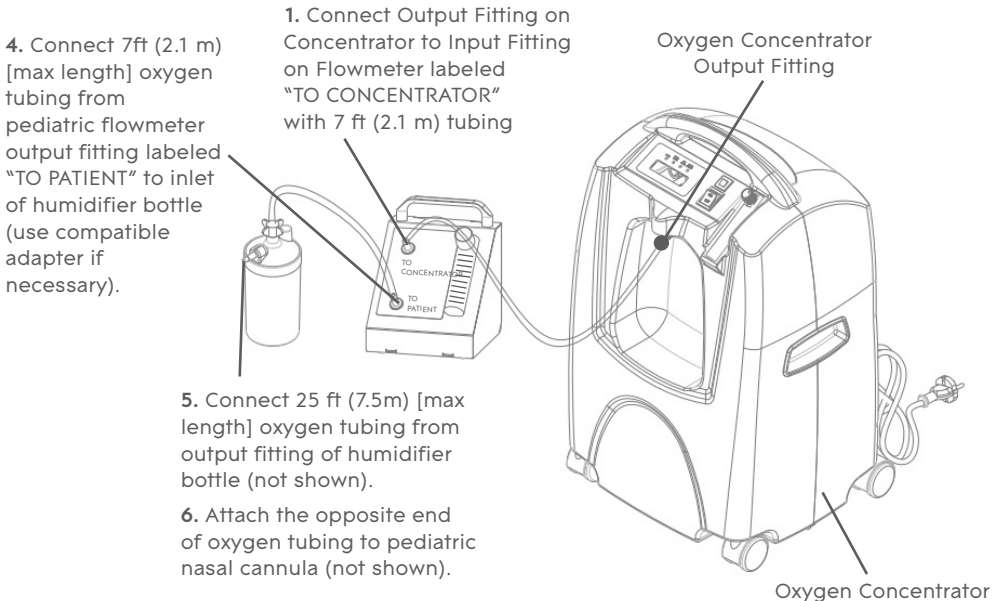
Refer to Figure 2.

1. Connect a 7ft (2.1 m) [max length] oxygen tubing from output fitting of oxygen concentrator to input labeled "TO CONCENTRATOR" on pediatric flowmeter.
2. Follow the directions supplied by humidifier bottle manufacturer for filling and connecting to oxygen tubing.
3. After filling humidifier bottle with water, place it in the humidifier compartment on oxygen concentrator.
4. Connect 7ft (2.1 m) [max length] oxygen tubing from pediatric flowmeter output fitting labeled "TO PATIENT" to inlet of humidifier bottle (use compatible adapter if necessary).
5. Connect 25 ft (7.5m) [max length] oxygen tubing from output fitting of the humidifier bottle (not shown).
6. Attach the opposite end of oxygen tubing to pediatric nasal cannula (not included) using a compatible oxygen tubing connector (not shown).



CAUTION Coiling excess crush resistant tubing on a COLD floor can cause condensation (moisture) to form in the tubing. Tubing should not be placed on a cold floor.

FIGURE 2



SETTING THE FLOW RATE



WARNING

DO NOT select a different setting unless your physician has prescribed a change in the flow rate of the Rhythm Pediatric Flowmeter.



CAUTION

DO NOT allow water or other substances to enter flowmeter openings. DO NOT submerge flow stand, flowmeter or tubing.

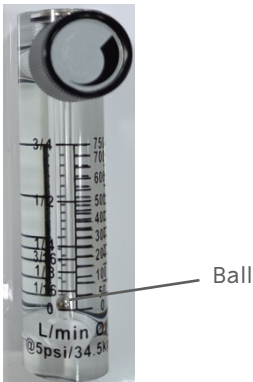
1. Set the pediatric flowmeter to the setting prescribed by your provider.

Note: Flow rate on the standard concentrator flowmeter will drop below the 2 L/min. setting after the Pediatric Flowmeter is installed and operating.

2. Adjust the flowmeter so that the center of the ball is aligned with the prescribed flow rate

3. Place pediatric cannula (not included) on the patient.

FLOWMETER



MAINTENANCE

CLEANING

Wipe down unit with soft cloth moistened with water and mild detergent. Do not submerge the Pediatric Flowmeter in water. Do NOT spray chemical cleaners on the flowmeter. The humidifier bottle **MUST** be cleaned after each use of Humidifier bottle. If utilized, cannulas, tubing and connectors **MUST** be changed after each patient.

SERVICE AND PREVENTATIVE MAINTENANCE



CAUTION

DO NOT allow water or other substances to enter flowmeter openings. DO NOT submerge flow stand, flowmeter or tubing.

The Pediatric Flowmeter is specifically designed to minimize routine preventive maintenance. If damage to the unit is suspected, or if for any reason flow accuracy is in question, it is recommended to have your unit calibrated by authorized service personnel.

1 YEAR LIMITED WARRANTY

This warranty is extended only to the original purchaser when new and unused from manufacturer or dealer. This warranty does not extend to any other person or entity and is not transferable or assignable to any subsequent purchaser or owner. The manufacturer warrants its Pediatric Flowmeter to be free from defects in materials and workmanship for a period of 1 year from date of purchase.

If within such warranty periods any such product shall be proven to the manufacturer's satisfaction to be defective, such product shall be repaired or replaced, at manufacturer's option. This warranty only applies to the labor for repairs performed by the Rhythm Healthcare's Service Department or Rhythm Healthcare Authorized Service Centers. It does not apply to the labor performed by the purchaser or user. This warranty does not include normal wear and tear or shipping charges. The manufacturer's sole obligation and your exclusive remedy under this warranty shall be limited to such repair or replacement. Routine maintenance items, such as cannulas, tubing, and connectors, are excluded from this warranty.

Limitations and Exclusions: The warranty will be void due to negligence, accidents, improper operation, improper maintenance or storage, soot or smoke-filled environments, or other than normal application, use or service, or products which have been modified without the manufacturer's express written consent (including, but not limited to, modification through the use of unauthorized parts or attachments) or products damaged by reason of repairs made to any component without the specific consent of authorized service personnel or products damaged by circumstances beyond the manufacturer or dealer's control.



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