

## HOPE™ Nebulizer

### INSTRUCTIONS FOR HOPE™ NEBULIZER P/N 11310

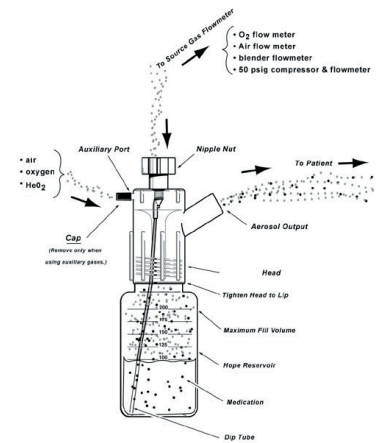
#### NECESSARY EQUIPMENT FOR DIRECT PATIENT CONNECTION

1. One HOPE™ Nebulizer (P/N 11310)
2. Oxygen and/or Air Flowmeter 0-15 L/min.
3. Large bore corrugated tubing and aerosol mask
4. Prescribed medication
5. Blender, Oxygen analyzer (if applicable)
6. B&B Part # 11370 80/20 Click Stop Heliox Regulator (if applicable)

#### DIRECT PATIENT CONNECTION

1. Connect the HOPE™ Nebulizer to the flowmeter or blender flowmeter.
2. Pour prescribed medication\* into the reservoir and attach to nebulizer.
3. Connect one end of the corrugated tubing to the output port of the HOPE™, the other end to the peep mask. (Fig. 1, 2)
4. Adjust the flowmeter to 10 L/min. for approximate 25ml/hr. output.
5. Adjust oxygen concentration per physician's order.
6. Place Aerosol mask on patient.
7. Check output Q 30' and adjust flowmeter to obtain 25ml output per hour. (not applicable with Auxillary Flow).
8. Replace HOPE™ Nebulizer every 48 hours.  
DO NOT REUSE, Single patient use only.

#### HOPE NEBULIZER



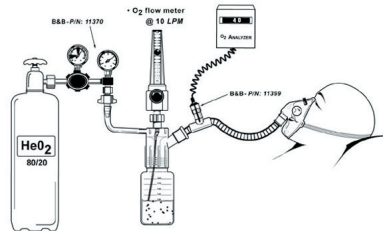
\*MEDICATION CALCULATION – See Dosing chart on reverse side.

Note: Using Secondary gas increases Nebulizer output. Dosage remains constant (see output chart).

#### Heliox Therapy using HeO2 80/20

<b>50% He</b>	<b>50% Oxygen</b>
Primary gas Oxygen @ 10 lpm	
Auxiliary gas 80/20 @ 17 lpm	

Using Heliox 80/20

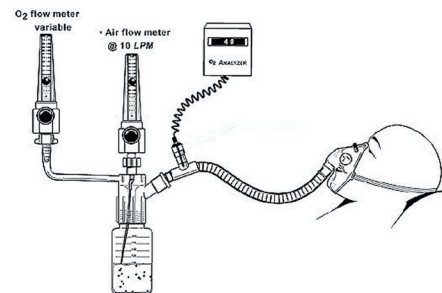


(Fig. 1)

#### FiO2 CHART

Use Oxygen analyzer to verify FiO2  
Using secondary gas increases output

Primary gas Oxygen @ 10 lpm Secondary gas Air:		Primary gas Air @ 10 lpm Secondary gas Oxygen:	
lpm Air	FiO2	lpm Oxygen	FiO2
12	56%	1	28%
8	64%	2	34%
4	77%	3	40%
2	87%	6	50%



(Fig. 2)

Catalog #11310

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# HOPE™ OUTPUT CHART

Source gas @ 10 lpm

Auxiliary flow l/m	Average output ml/hr	Average Output in ml per Liter of gas	25 ml of solution will nebulize in approximately this amount of time
0	25	0.042	1 hour
1	26.9	0.041	55 minutes
2	28.6	0.041	52 minutes
4	31.7	0.038	47 minutes
6	37.2	0.038	40 minutes
8	40.5	0.038	37 minutes
10	45	0.038	33 minutes
12	50	0.038	30 minutes
17*	HeO2-80/20 50	0.031	30 minutes

\* Optimal performance assured with B&B Click Stop 80/20 HELIOX Regulator Part # 11370

## INSTRUCTIONS for using HOPE Nebulizer DOSING CHART

1. Locate physicians ordered mg/hr or ml/hr in the left hand columns.
  2. Locate the number of hours therapy will last on the top row of the chart.
  3. Intersect the row and the column to find ml of Albuterol to add to the Reservoir, then fill with normal saline up to the corresponding hour line.  
EXAMPLE ONLY
- Physician orders: Continuous nebulizer with 15 mg/hr Albuterol for 3 hrs.
1. Find 15 mg/hr on the far left column.
  2. Locate the 3 hour column at the top of the chart.
  3. Intersect the row and column. You get 9. This is how many ml of Albuterol to add to the nebulizer.
  4. Locate FILL TO number located above the 3 hour Column. = 75 ml.
  5. Fill with n/s to 75 ml mark on reservoir. Screw medication reservoir to nebulizer, and Nebulizer to flowmeter. Set flow to 10 lpm, and secure mask.

## HOPE Dosing Chart p/n: B11310

Add medications and fill to:	25 ml	50 ml	75 ml	100 ml	125 ml	150 ml	175 ml	200 ml
Albuterol sulfate 5mg/ml	1 hour	2 hour	3 hour	4 hour	5 hour	6 hour	7 hour	8 hour
2.5	0.5	1	1.5	2	2.5	3	3.5	4
3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
3.5	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6
4	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4
4.5	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2
5	1	2	3	4	5	6	7	8
5.5	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8
6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
6.5	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4
7	1.4	2.8	4.2	5.6	7	8.4	9.8	11.2
7.5	1.5	3	4.5	6	7.5	9	10.5	12
8	1.6	3.2	4.8	6.4	8	9.6	11.2	12.8
8.5	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6
9	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
9.5	1.9	3.8	5.7	7.6	9.5	11.4	13.3	15.2
10	2	4	6	8	10	12	14	16
10.5	2.1	4.2	6.3	8.4	10.5	12.6	14.7	16.8
11	2.2	4.4	6.6	8.8	11	13.2	15.4	17.6
11.5	2.3	4.6	6.9	9.2	11.5	13.8	16.1	18.4
12	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2
12.5	2.5	5	7.5	10	12.5	15	17.5	20
13	2.6	5.2	7.8	10.4	13	15.6	18.2	20.8
13.5	2.7	5.4	8.1	10.8	13.5	16.2	18.9	21.6
14	2.8	5.6	8.4	11.2	14	16.8	19.6	22.4
14.5	2.9	5.8	8.7	11.6	14.5	17.4	20.3	23.2
15	3	6	9	12	15	18	21	24
15.5	3.1	6.2	9.3	12.4	15.5	18.6	21.7	24.8
16	3.2	6.4	9.6	12.8	16	19.2	22.4	25.6
16.5	3.3	6.6	9.9	13.2	16.5	19.8	23.1	26.4
17	3.4	6.8	10.2	13.6	17	20.4	23.8	27.2
17.5	3.5	7	10.5	14	17.5	21	24.5	28
18	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8
18.5	3.7	7.4	11.1	14.8	18.5	22.2	25.9	29.6
19	3.8	7.6	11.4	15.2	19	22.8	26.6	30.4
19.5	3.9	7.8	11.7	15.6	19.5	23.4	27.3	31.2
20	4	8	12	16	20	24	28	32

# HOPE™ NEBULIZER

## Continuous Medication/Heliox Nebulizer

Contents: One 11310 Hope Nebulizer

Read complete instructions before use.

Single Patient use  
Packaged Clean

MFG. For



P. O. Box 1958, Loomis, CA 95650-1958 USA

CAUTION: Federal (USA) Law restricts this device to sale on order of a physician  
Patent # 6,041,776

Form S201 Rev 6 Lot #  
Ref:# 11310