

INSTRUCTIONS FOR USING HOPE NEBULIZER DOSING CHART:

1. Locate physician's 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's order: Continuous nebulizer with 15 mg/hr Albuterol for 3 hours.

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 Nebulizer Dosing Chart

Albuterol sulfate 5mg/ml		Add medications and fill to:							
mg/hour	ml/hour	25 ml	50 ml	75 ml	100 ml	125 ml	150 ml	175 ml	200 ml
		1 hour	2 hour	3 hour	4 hour	5 hour	6 hour	7 hour	8 hour
2.5	0.5	0.5	1	1.5	2	2.5	3	3.5	4
3	0.6	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
3.5	0.7	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6
4	0.8	0.8	1.6	2.4	3.2	4	4.8	5.6	6.4
4.5	0.9	0.9	1.8	2.7	3.6	4.5	5.4	6.3	7.2
5	1	1	2	3	4	5	6	7	8
5.5	1.1	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8
6	1.2	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
6.5	1.3	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4
7	1.4	1.4	2.8	4.2	5.6	7	8.4	9.8	11.2
7.5	1.5	1.5	3	4.5	6	7.5	9	10.5	12
8	1.6	1.6	3.2	4.8	6.4	8	9.6	11.2	12.8
8.5	1.7	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6
9	1.8	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4
9.5	1.9	1.9	3.8	5.7	7.6	9.5	11.4	13.3	15.2
10	2	2	4	6	8	10	12	14	16
10.5	2.1	2.1	4.2	6.3	8.4	10.5	12.6	14.7	16.8
11	2.2	2.2	4.4	6.6	8.8	11	13.2	15.4	17.6
11.5	2.3	2.3	4.6	6.9	9.2	11.5	13.8	16.1	18.4
12	2.4	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2
12.5	2.5	2.5	5	7.5	10	12.5	15	17.5	20
13	2.6	2.6	5.2	7.8	10.4	13	15.6	18.2	20.8
13.5	2.7	2.7	5.4	8.1	10.8	13.5	16.2	18.9	21.6
14	2.8	2.8	5.6	8.4	11.2	14	16.8	19.6	22.4
14.5	2.9	2.9	5.8	8.7	11.6	14.5	17.4	20.3	23.2
15	3	3	6	9	12	15	18	21	24
15.5	3.1	3.1	6.2	9.3	12.4	15.5	18.6	21.7	24.8
16	3.2	3.2	6.4	9.6	12.8	16	19.2	22.4	25.6
16.5	3.3	3.3	6.6	9.9	13.2	16.5	20.1	23.1	26.4
17	3.4	3.4	6.8	10.2	13.6	17	20.4	23.8	27.2
17.5	3.5	3.5	7	10.5	14	17.5	21	24.5	28
18	3.6	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8
18.5	3.7	3.7	7.4	11.1	14.8	18.5	22.2	25.9	29.6
19	3.8	3.8	7.6	11.4	15.2	19	22.8	26.6	30.4
19.5	3.9	3.9	7.8	11.7	15.6	19.5	23.4	27.3	31.2
20	4	4	8	12	16	20	24	28	32

HOPE Nebulizer Output Chart

Source gas at 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* HeO ₂ -80/20	50	0.031	30 minutes

* Optimal performance assured with B&B Click Stop 80/20 HELIOX Regulator Part # 11382.

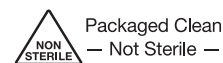
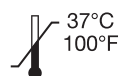


HOPE™ Nebulizer Continuous Medication/Heliox Nebulizer

REF

- 11310 Hope Nebulizer
- 11320 Hope Nebulizer Adult Kit with Aerosol Tubing and Mask
- 11330 Hope Nebulizer Pediatric Kit with Aerosol Tubing and Mask

LOT



Manufactured for:
B&B Medical Technologies
 1954 Kellogg Ave. Ste 100
 Carlsbad, CA 92008 U.S.A
 Phone: +1.760.929.9972
 Fax: +1.760.929.9953
 www.BandB-Medical.com

Caution: Federal law restricts this device to sale by or on order of a physician.

Not Made With Natural Rubber Latex

Patent Number 6,041,776 and RE 38,700 E.
 Packaged in Mexico.
 Reference: 11310, 11320, 11330
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READ AND UNDERSTAND COMPLETE INSTRUCTIONS PRIOR TO USE

P/N 11310, 11320, 11330

NECESSARY EQUIPMENT FOR DIRECT PATIENT CONNECTION:

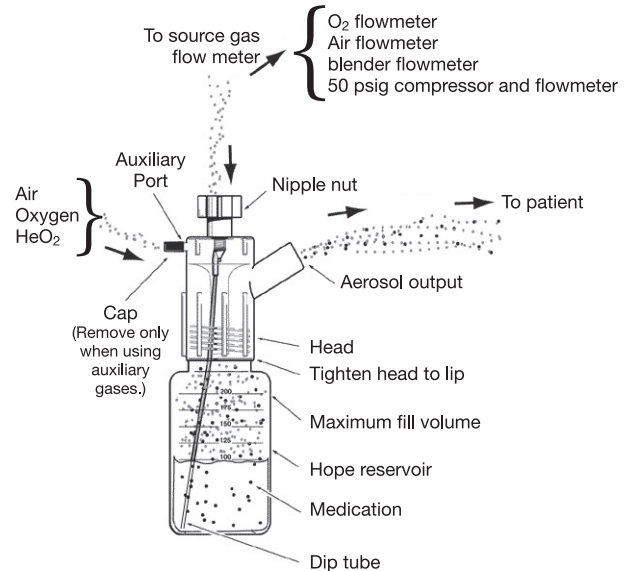
1. One HOPE Nebulizer (P/N 11310)
2. Oxygen and/or Air Flowmeter 0-15 L/min.
3. Large bore corrugated tubing and aerosol mask
4. Prescribed medication
5. Blender, oxygen analyzer (if applicable)
6. B&B Part No. 11382 80/20 Click Stop Heliox Regulator (if applicable)

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 Nebulizer, the other end to the peep mask. (Figures 1 and 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 auxiliary flow).
8. Replace HOPE Nebulizer every 48 hours.
DO NOT REUSE. Single patient use only.

*MEDICATION CALCULATION – See dosing chart on reverse side.

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



AVANT D'UTILISER, BIEN LIRE ET COMPRENDRE TOUTES LES INSTRUCTIONS

P/N 11310, 11320, 11330

ÉQUIPEMENT NÉCESSAIRE POUR UNE CONNEXION DIRECTE PATIENT:

1. Un HOPE Nebulizer (P/N, 11310)
2. Oxygène ou Air débitmètre 0-15 L/min.
3. Grand alésage tube ondulé et masque aérosol
4. Médicament prescrit
5. Blender, analyseur d'oxygène (le cas échéant)
6. B & B partie n° 11382 80/20 cliquez sur arrêter le régulateur héliox (le cas échéant)

ADRESSER LE PATIENT CONNEXION

1. Connecter le HOPE Nebulizer au débitmètre ou mélangeur débitmètre.
2. Versez les médicaments prescrits* dans le réservoir et fixer au nébuliseur.
3. Connectez une extrémité du tube ondulé pour le port de sortie du nébuliseur HOPE, l'autre extrémité au masque peep. (Figures 1 et 2)
4. Régler le débitmètre à 10 L/min. pour environ 25ml/hr. sortie.
5. Ajuster la concentration en oxygène par ordre du médecin.
6. Placez le masque de l'aérosol sur le patient.
7. Vérifier la sortie Q 30' et ajuster le débitmètre pour une sortie à 25ml par heure (non applicable avec écoulement auxiliaire).
8. Remplacer le nébuliseur espoir toutes les 48 heures.
NE PAS RÉUTILISER. Usage unique.

*MÉDICAMENTS CALCUL – Voir le tableau posologique au verso.

Remarque: L'utilisation de gaz secondaire augmente sortie du nébuliseur.
Dosage reste constant (voir tableau de sortie).

HELIOX THERAPY USING HE₂ 80/20

50% He, 50% Oxygen

Primary gas: Oxygen at 10 lpm

Auxiliary gas: 80/20 at 17 lpm

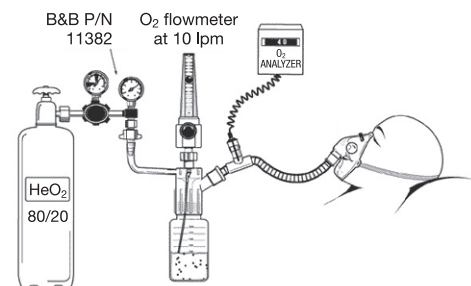


Figure 1

FiO₂ CHART

Use oxygen analyzer to verify FiO₂

Using secondary gas increases output

Primary gas: Oxygen at 10 lpm

Secondary gas: Air

Primary gas: Air at 10 lpm

Secondary gas: Oxygen

lpm Air	FiO ₂	lpm Oxygen	FiO ₂
12	56%	1	28%
8	64%	2	34%
4	77%	3	40%
2	87%	6	50%

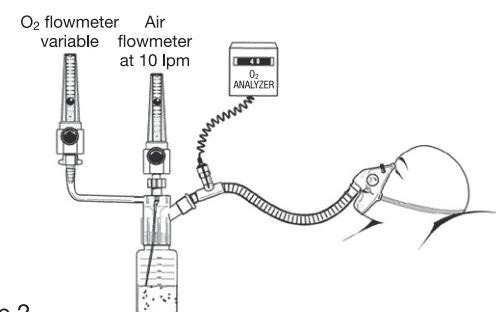


Figure 2