



Everything about the Liberator is top of the line. The Liberator is specially designed to maximize patient convenience and optimize liquid distribution for greater profitability.

CAIRE, Inc.'s Liberators are rugged and have more liquid capacity with less overall weight. This allows you to stretch deliveries without making your delivery personnel carry a heavier unit. All controls (including the easy to read LED meter) come mounted on the top for quick reference and easy operation.

Liberators have industry standard fill connectors and can be equipped with two fill options, either Top or Side Fill connectors for dual fill operation. They are backed by a five year vacuum warranty.

Features

[20-60 L capacity]

[148-410 hours of operation at 2 LPM]

[0-15 LPM flow rate]

[Fill time 2.5-5.5 minutes warm;
1.5-4 minutes cold]

[5 year vacuum warranty]

Patient Benefits

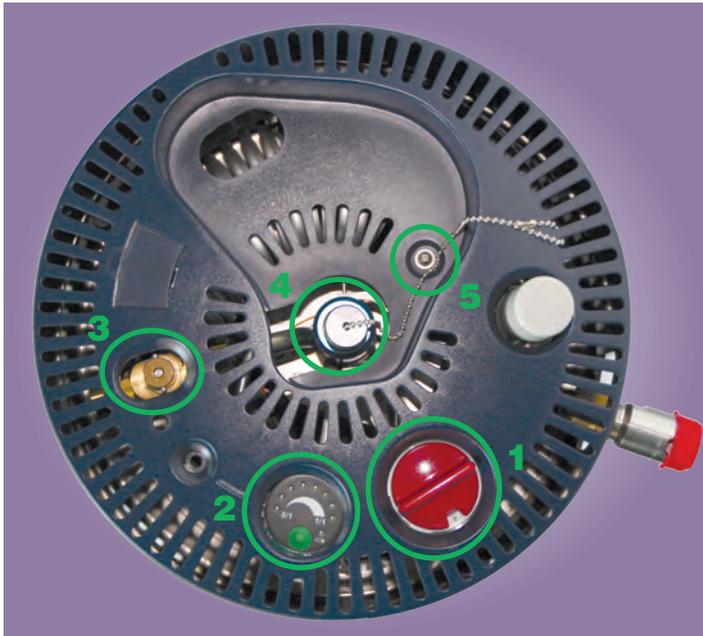
[Improved Ambulation]

[Reduced Hospitalizations]

[Increase in Survival]

Liberator[®] [Liquid Oxygen System]

CAIRE[®]
A Chart Industries Company



CAIRE, Inc. has designed Side and Top Fill Strollers[®] and Sprints[™] for use with the Liberator O₂ system.

- 1** Flow Control Knob
- 2** Liquid Level Display
- 3** Vent Valve
- 4** Top Fill Quick Disconnect Valve (Side Fill Or Dual Fill Option Also Available)
- 5** Easy Off Shroud

Product Specifications

	20	30	37	45	60
Capacity (vent full)	21.6 L (liquid) 52 lbs. (23,58 Kg) 17,780 L (gaseous)	31.2 L (liquid) 75 lbs. (34,01 Kg) 25,650 L (gaseous)	38.3 L (liquid) 92 lbs. (41,72 Kg) 31,460 L (gaseous)	46.6 L (liquid) 112 lbs. (50,80 Kg) 38,300 L (gaseous)	60 L (liquid) 144 lbs. (65, 31 Kg.) 49, 200L (gaseous)
Selectable Flow	Off, .25, .5,	Off, .25, .5,	Off, .25, .5,	Off, .25, .5,	Off, .25, .50,
Rates (LPM)	.75, 1, 1.5, 2, 2.5, 3,4,5,6,8,10,12,15	.75, 1, 1.5, 2, 2.5, 3,4,5,6,8,10,12,15			
Flow Rate	±.1 liter/min or ±10% of flow setting, whichever is greater				
Accuracy					
Operating Pressure	20 psi (1, 4 Bar)	20 psi (1, 4 Bar)			
Hours of Operation at 2 LPM (ideal)	148 Hours	213 Hours	262 Hours	319 Hours	410 Hours
Normal	1.5 lbs./day	1.5 lbs./day	1.5 lbs./day	1.5 lbs./day	1.6 lbs./day
Evaporation Rate	(0,68 Kg/day)	(0,68 Kg/day)	(0,68 Kg/day)	(0,68 Kg/day)	(0, 73 Kg/Day)
Fill Time					
(Fast Fill, 20 psi 1,4 Bar Saturate LOX with 50 psi 3,4 Bar Head Source)	2.5 min. Warm	3 min. Warm	3.5 min. Warm	4 min. Warm	5.5 min. Warm
	1.5 min. Cold	2 min. Cold	2.5 min. Cold	3 min. Cold	4 min. Cold
Height	24.5" (622 mm)	29.5" (750 mm)	32.75" (832 mm)	37" (940 mm)	39" (990 mm)\
Diameter	14" (356 mm)	14" (356 mm)	14" (356 mm)	14" (356 mm)	16" (406 mm)
Weight Empty (Kg)	39 lbs. (17,69)	45 lbs. (20,41)	50 lbs. (22,68)	55 lbs. (24,95)	66 lbs. (29, 93 Kg)
Full (Kg)	91 lbs. (41,26)	120 lbs. (54,42)	142 lbs. (64,40)	167 lbs. (75,7)	210 lbs. (95, 24 Kg.)

Chart Industries, Inc.
CAIRE, Inc.
2200 Airport Industrial Drive, Suite 500
Ball Ground, GA 30107
Ph 770-721-7759 • Toll Free 1-800-482-2473
Fax 770-721-7758



www.cairemedical.com

Chart BioMedical, Ltd.
Unit 2, Maxdata Centre
Downmill Road, Bracknell
Berks RG12 1QS, United Kingdom
Ph +44(0) 1344 403100 • Fax +44(0) 1344 429224

Copyright © 2009 Chart Industries Ref 10812977 Rev M