

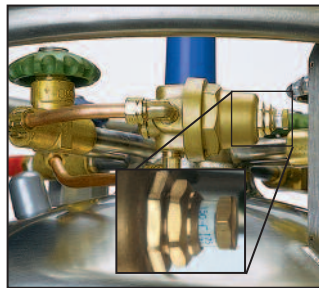
# ECONO-CYL®

## VERTICAL GAS LIQUID CYLINDERS

Introducing the Econo-Cyl® Liquid Cylinder from Chart. The Econo-Cyl tank offers a thick stainless steel outer jacket, an all-metal shock absorbing footring, color-coded valve handles, and color-coded safeties. Built with our legendary Composite Super Insulation™ and Chart Vacuum Technology®, the Econo-Cyl tank provides maximum gas utilization for your customers. The most popular models have been streamlined – making them the preferred choice in economical transportable liquid cylinders.



The Roto-Tel™ Liquid Level Gauge features an easy-to-read dial liquid level indicator with swivel head design.



MCR Models have a combination pressure control regulator with an exclusive, calibrated micrometer adjusting screw.



Choice of round or square caster base on the 230 models.

### PRODUCT HIGHLIGHTS

- Ideal for liquid nitrogen, oxygen, argon, CO<sub>2</sub> or nitrous oxide
- All stainless steel inner and outer cylinder construction
- Thick, dent-resistant outer shell
- Four handling ring supports with large one-inch pipe size ring
- 4" galvanized casters on 230 models
- Integrated pull handle on 230 square base model
- Color-coded valve handles and name tags for easy identification of the plumbing functions
- Roto-Tel™ Liquid Level Gauge System
- Five-year vacuum warranty



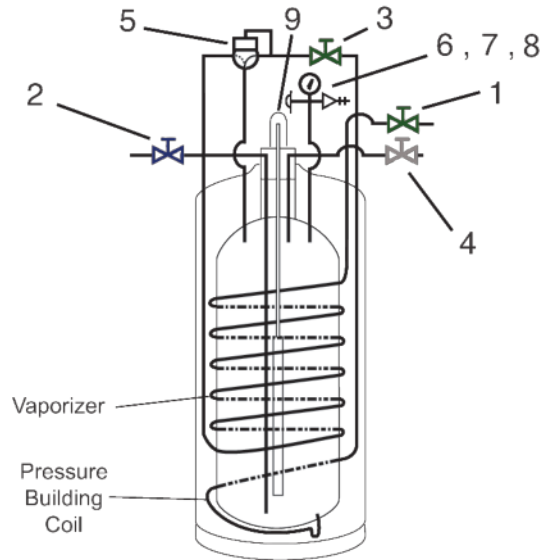
Innovation. Experience. Performance.™

# ECONO-CYL<sup>®</sup>

## VERTICAL GAS LIQUID CYLINDERS

Specifications		Footring   Caster Base			
MODEL		180	200	230 RB	230 SB
	Pressure	HP	HP	HP	HP
PBER	Part Number	21006068	21006073	21006074	21006075
<b>CAPACITY<sup>(1)(2)</sup></b>					
Liquid (Gross)	(liters)	196	209	240	240
Liquid (Net)	(liters)	185	196	230	230
Gas (N <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	3,864/102	4,072/108	4,734/124	4,734/124
Gas (O <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	4,843/127	5,048/133	5,930/156	5,930/156
Gas (Ar)	ft <sup>3</sup> / Nm <sup>3</sup>	4,709/124	4,932/130	5,763/151	5,763/151
Gas (CO <sub>2</sub> )	ft <sup>3</sup> / Nm <sup>3</sup>	3,766/99	4,011/105	4,614/121	4,614/121
Gas (N <sub>2</sub> O)	ft <sup>3</sup> / Nm <sup>3</sup>	3,574/94	3,810/100	4,378/115	4,378/115
<b>PERFORMANCE<sup>(3)</sup></b>					
NER (N <sub>2</sub> )	% per day	1.9	1.85	1.8	1.8
NER (O <sub>2</sub> - Ar)	% per day	1.3	1.2	1.2	1.2
NER (CO <sub>2</sub> - N <sub>2</sub> O)	% per day	0.5	0.5	0.5	0.5
Gas Flow (N <sub>2</sub> , O <sub>2</sub> , Ar)	SCFH/Nm <sup>3</sup> /hr	350/9.2	400/10.5	400/10.5	400/10.5
Gas Flow (CO <sub>2</sub> , N <sub>2</sub> O)	SCFH/Nm <sup>3</sup> /hr	110/2.9	110/2.9	110/2.9	110/2.9
<b>DIMENSIONS &amp; PRESSURE RATINGS</b>					
Relief Valve Setting	psig / barg	350 / 24	350 / 24	350 / 24	350 / 24
DOT Rating		4L292	4L292	4L292	4L292
Diameter <sup>(4)</sup>	in / cm	20 / 50.8	20 / 50.8	26 / 66.0	26 / 66.0
Height <sup>(5)</sup>	in / cm	64.3/163.3	66.6/169.2	57.2/145.3	56.8/144.3
Tare Weight	lb / kg	288/130	305/138	360/163	393/178
Full Weight (N <sub>2</sub> )	lb / kg	568/257	603/273	703/318	736/333
(O <sub>2</sub> )	lb / kg	689/312	732/332	851/386	884/400
(Ar)	lb / kg	775/351	824/373	956/433	989/448
(CO <sub>2</sub> )	lb / kg	719/326	764/346	888/402	921/417

- (1) Gas capacities at DOT4L limits. See manual for details.  
 (2) All models are available with permanently installed CGA fittings for medical applications. Contact Customer Service for details.  
 (3) Ambient conditions: 68°F/20°C and 50% relative humidity  
 (4) Dimension of square caster base: 27-3/4" W x 28-3/4" D.  
 (5) Dimensions are measured from the floor to the top of the sight gauge protector.  
 Note: All caster base models are available with galvanized casters.  
 RB = Round Base    SB = Square Base  
 NER = Nominal Evaporation Rate



Nomenclature	
1.	Gas Use Valve
2.	Fill / Liquid Valve
3.	Pressure Building Valve
4.	Vent Valve
5.	Combination Pressure Building Regulator
6.	Pressure Gauge
7.	Pressure Relief Valve
8.	Rupture Disk
9.	Liquid Level Gauge