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,
 CO₂ 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





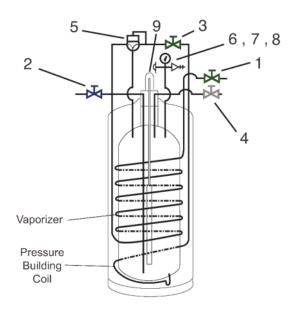
VERTICAL GAS LIQUID CYLINDERS

Specifications		Footring I		Caster Base	
MODEL		180	200	230 RB	230 SB
	Pressure	HP	HP	HP	HP
PBER	Part Number	14880547	14880555	14880563	14880571
CAPACITY ⁽¹⁾⁽²⁾					
Liquid (Gross)	(liters)	196	209	240	240
Liquid (Net)	(liters)	185	196	230	230
Gas (N ₂)	ft ³ / Nm ³	3,864/102	4,072/108	4,734/124	4,734/124
Gas (0 ₂)	ft ³ / Nm ³	4,843/127	5,048/133	5,930/156	5,930/156
Gas (Ar)	ft ³ / Nm ³	4,709/124	4,932/130	5,763/151	5,763/151
Gas (CO ₂)	ft ³ / Nm ³	3,766/99	4,011/105	4,614/121	4,614/121
Gas (N ₂ 0)	ft ³ / Nm ³	3,574/94	3,810/100	4,378/115	4,378/115
PERFORMANCE ⁽³⁾					
NER (N ₂)	% per day	1.9	1.85	1.8	1.8
NER (0 ₂ - Ar)	% per day	1.3	1.2	1.2	1.2
NER (CO ₂ - N ₂ O)	% per day	0.5	0.5	0.5	0.5
Gas Flow (N ₂ , O ₂ , Ar)	SCFH/Nm³/hr	350/9.2	400/10.5	400/10.5	400/10.5
Gas Flow (CO ₂ , N ₂ O)	SCFH/Nm³/hr	110/2.9	110/2.9	110/2.9	110/2.9
DIMENSIONS & PRESSURE RATINGS					
Relief Valve Setting	psig / barg	350 / 24	350 / 24	350 / 24	350 / 24
DOT Rating		4L292	4L292	4L292	4L292
Diameter ⁽⁴⁾	in / cm	20 / 50.8	20 / 50.8	26 / 66.0	26 / 66.0
Height ⁽⁵⁾	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 ₂)	lb / kg	568/257	603/273	703/318	736/333
(02)	lb / kg	689/312	732/332	851/386	884/400
(Ar)	lb / kg	775/351	824/373	956/433	989/448
(CO ₂)	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.

 $RB = Round \ Base \qquad SB = Square \ Base \ NER = Nominal Evaporation Rate$



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

Chart Inc. U.S.: 1-800-400-4683 Worldwide: 1-952-758-4484

