



**INNOVATIVE.
CONVENIENT.
RELIABLE.**

Taylor-Wharton



Liquid Cylinders

Brought to you by the industry leader

LIQUID CYLINDERS

Superior products...outstanding solutions. Wherever you need them.

Trust the experts for unsurpassed value, quality and service – worldwide. Our extensive product line offers everything you need to transport, store and dispense liquefied gases.

Portable and vacuum-insulated, our vast array of models will fit your needs and store your contents safely and securely every time. Best of all, these products come from Taylor-Wharton, the leader in quality cryogenic liquid cylinders.

Our extensive line-up includes reliable features that ensure excellent performance:

- Full Circle® Shock-Mount Ring
- Polished Heavy Duty Outer Body
- Innovative Non-Binding Contents Gauge
- Reinforced Lateral Head Support
- Color-Coded Relief Valves for Different Pressure Settings
- 5-Year Warranty on Vacuum

Meet our latest models...

L Series

Liquid Withdrawal

Low pressure XL-160 and XL-240

Liquid Nitrogen or Liquid Oxygen

- Rugged, easy to maneuver and versatile
- Designed for low pressure filling, storing and dispensing
- Simple, quick liquid withdrawal
- Sizes for every need, from small volume to frequent usage
- Oxygen service and pressure-building capabilities available



Part/Model No.	XL-160	XL-240
Dimensions		
Diameter in. (mm)	20 (508)	26 (660)
Height in. (mm)	57 5/8 (1464)	59 1/2 (1511) ⁴
Weight		
Empty lb. (kg) (Nominal)	197 (89)	N/A
5 Caster Base lb. (kg)	N/A	375 (170)
4 Caster Base (square base)	N/A	445 (202kg)
Maximum Liquid Capacity (liters)	163	250
Usable Liquid Capacity (liters)	160	240
Normal Evaporation Rate ¹ % Capacity/Day		
Oxygen	N/A	0.9%
Nitrogen	1.3%	1.4%
Argon	N/A	N/A
Carbon Dioxide	N/A	N/A
Nitrous Oxide	N/A	N/A
Dual Pressure Building/Economizer Regulator ³		
Pressure Building Setting	N/A	15 psig ⁵
	N/A	(1 bar/103 kPa)
Economizer Setting	N/A	N/A
	N/A	N/A
Design Specification		
TC N/A	4LM	4LM
DOT	4L	4LM
Rated DOT Service Pressure	100 psig	100 psig
Safety Devices		
Pressure Relief Valve	22 psig (1.5 bar/152 kPa)	22 psig (1.5 bar/152 kPa)
Inner Container Bursting Disc	176 psig (12 bar/1213 kPa)	176 psig (12 bar/1213 kPa)
Weight of Contents Based on DOT-Rated Service Pressure		
Oxygen lb. (kg)	N/A	563 (255)
Nitrogen lb. (kg)	259 (117)	394 (179)
Argon	N/A	N/A
Carbon Dioxide	N/A	N/A
Nitrous Oxide	N/A	N/A

Specifications subject to change without notice.

(1) Vented N.E.R based on usable liquid capacity

(2) Container pressure at or above factory pressure/economizer regulator setting

(3) Regulator has a pressure delta of 20 psig (1.4 bar/138 kPa)

(4) 5-caster base used for weight and height measure.

For 4-caster base square base with handle, add approx. 70 lb (32 kg) and 1/2 inch (12.7 mm)

(5) L-240 available with or without pressure building capabilities. L240-OC04 for oxygen service employs a single action regulator set at 90 psig (6 bar/621 kPa)

GL Series

Gas and Liquid Withdrawal

Medium pressure XL-45, XL-50, XL-65

Liquid or Gaseous Nitrogen, Oxygen, Argon

- Worry-free, over-the-road transport
- Hard working, tough construction
- Automatic pressure-building and economizer circuits
- Low-loss holding capabilities – conserve during low demand periods



Part/Model No.	XL-45	XL-50	XL-65
Dimensions			
Diameter in. (mm)	20 (508)	20 (508)	26 (660)
Height in. (mm)	61 3/8 (1559)	64 3/8 (1641)	59 1/2 (1511) ⁴
Weight			
Empty lb. (kg) (Nominal)	255 (116)	270 (122)	N/A
5 Caster Base lb. (kg)	N/A	N/A	375 (170)
4 Caster Base lb. (kg)	N/A	N/A	445 (202)
Maximum Liquid Capacity (liters)	180	193	250
Usable Liquid Capacity (liters)	169	181	240
Normal Evaporation Rate ¹ % Capacity/Day			
Oxygen	1.2%	1.1%	0.9%
Nitrogen	1.9%	1.8%	1.4%
Argon	1.2%	1.1%	0.9%
Carbon Dioxide	N/A	N/A	N/A
Nitrous Oxide	N/A	N/A	N/A
Gas Withdrawal Rate ² @ NTP (STP)			
Oxygen cfm (cu. m/h)	350 (9.2)	350 (9.2)	350 (9.2)
Nitrogen cfm (cu. m/h)	350 (9.2)	350 (9.2)	350 (9.2)
Argon cfm (cu. m/h)	350 (9.2)	350 (9.2)	350 (9.2)
Carbon Dioxide	N/A	N/A	N/A
Nitrous Oxide	N/A	N/A	N/A
Dual Pressure Building/Economizer Regulator ³			
Pressure Building Setting	125 psig (8.6 bar/862 kPa)	125 psig (8.6 bar/862 kPa)	125 psig (8.6 bar/862 kPa)
Economizer Setting	145 psig (10 bar/1000 kPa)	145 psig (10 bar/1000 kPa)	145 psig (10 bar/1000 kPa)
Design Specification			
TC N/A	4LM	4LM	4LM
DOT	4L	4L	4L
Rated DOT Service Pressure	200 psig	200 psig	200 psig
Safety Devices			
Pressure Relief Valve	230 psig (16 bar/1586 kPa)	230 psig (16 bar/1586 kPa)	230 psig (16 bar/1586 kPa)
Inner Container Bursting Disc	360 psig (24.8 bar/248 kPa)	360 psig (24.8 bar/248 kPa)	360 psig (24.8 bar/248 kPa)
Weight of Contents Based on DOT-Rated Service Pressure			
Oxygen lb. (kg)	388 (176)	416 (189)	539 (244)
Nitrogen lb. (kg)	273 (127)	293 (133)	80 (172)
Argon lb. (kg)	471 (214)	505 (229)	655 (279)
Carbon Dioxide	N/A	N/A	N/A
Nitrous Oxide	N/A	N/A	N/A
Gaseous Capacity Based on DOT-Rated Service Pressure @ NTP (STP)			
Oxygen cu. ft. (cu. m)	4688 (123)	5025 (132)	6511 (171)
Nitrogen cu. ft. (cu. m)	3771 (99)	4043 (106)	5244 (139)
Argon cu. ft. (cu. m)	4558 (120)	4884 (128)	6335 (166)
Carbon Dioxide	N/A	N/A	N/A
Nitrous Oxide	N/A	N/A	N/A

(1) Vented N.E.R based on usable liquid capacity

(2) Container pressure at or above factory pressure/economizer regulator setting

(3) Regulator has a pressure delta of 20 psig (1.4 bar/138 kPa)

Specifications subject to change without notice.

HP Series

Gas and Liquid Withdrawal

High pressure XL-45HP, XL-50HP, XL-55HP, XL-65HP

Liquefied or Gaseous Nitrogen, Oxygen, Argon, Carbon Dioxide, Nitrous Oxide

- Ideal for handling a wide variety of gases or liquefied gases
- Automatic dual pressure building/economizer regulator
- Equipped with an internal vaporizer
- State-of-the-art safety features



Part/Model No.	XL-45HP	XL-50HP	XL-55HP	XL-65HP
Dimensions				
Diameter in. (mm)	20 (508)	20 (508)	20 (508)	26 (660)
Height in. (mm)	61 3/8 (1559)	64 3/8 (1641)	69 7/6 (1764)	59 1/2 (1511) ⁴
Weight				
Empty lb. (kg) (Nominal)	272 (123)	284 (129)	287 (130)	465 (211)
5 Caster Base lb. (kg)	N/A	N/A	N/A	465 (211)
4 Caster Base lb. (kg)	N/A	N/A	N/A	535 (243)
Maximum Liquid Capacity (liters)	176	188	208	247
Usable Liquid Capacity (liters)	165	176	198	240
Normal Evaporation Rate ¹ % Capacity/Day				
Oxygen	1.4%	1.2%	1.2%	1.0%
Nitrogen	2.2%	2.0%	1.9%	1.6%
Argon	1.4%	1.2%	1.2%	1.0%
Carbon Dioxide	0.75%	0.75%	0.75%	0.75%
Nitrous Oxide	0.75%	0.75%	0.75%	0.75%
Gas Withdrawal Rate ² @ NTP (STP)				
Oxygen cfm (cu. m/h)	350 (9.2)	350 (9.2)	350 (9.2)	350 (9.2)
Nitrogen cfm (cu. m/h)	350 (9.2)	350 (9.2)	350 (9.2)	350 (9.2)
Argon cfm (cu. m/h)	350 (9.2)	350 (9.2)	350 (9.2)	350 (9.2)
Carbon Dioxide cfm (cu. m/h)	150 (3.9)	150 (3.9)	150 (3.9)	150 (3.9)
Nitrous Oxide cfm (cu. m/h)	110 (2.9)	110 (2.9)	110 (2.9)	110 (2.9)
Dual Pressure Building/Economizer Regulator ³				
Pressure Building Setting	300 psig (20.7 bar/2068 kPa)	300 psig (20.7 bar/2068 kPa)	300 psig (20.7 bar/2068 kPa)	300 psig (20.7 bar/2068 kPa)
Economizer Setting	320 psig (22 bar/2206 kPa)	320 psig (22 bar/2206 kPa)	320 psig (22 bar/2206 kPa)	320 psig (22 bar/2206 kPa)
Design Specification				
TC N/A	4LM	4LM	4LM	4LM
DOT	4L	4L	4L	4L
Rated DOT Service Pressure	292 psig	292 psig	292 psig	292 psig
Safety Devices				
Pressure Relief Valve	350 psig (24 bar/2413 kPa)	350 psig (24 bar/2413 kPa)	350 psig (24 bar/2413 kPa)	350 psig (24 bar/2413 kPa)
Inner Container Bursting Disc	525 psig (36 bar/3620 kPa)	525 psig (36 bar/3620 kPa)	525 psig (36 bar/3620 kPa)	525 psig (36 bar/3620 kPa)
Weight of Contents Based on DOT-Rated Service Pressure				
Oxygen lb. (kg)	360 (163)	385 (175)	458 (208)	505 (229)
Nitrogen lb. (kg)	252 (114)	296 (122)	298 (135)	353 (160)
Argon lb. (kg)	438 (199)	467 (212)	518 (235)	614 (279)
Carbon Dioxide lb. (kg)	387 (176)	414 (188)	458 (208)	516 (234)
Nitrous Oxide lb. (kg)	368 (167)	393 (177)	435 (197)	543 (246)
Gaseous Capacity Based on DOT-Rated Service Pressure @ NTP (STP)				
Oxygen cu. ft. (cu. m)	4350 (114)	4651 (122)	5146 (135)	6100 (160)
Nitrogen cu. ft. (cu. m)	3479 (91)	3712 (98)	4112 (108)	4871 (128)
Argon cu. ft. (cu. m)	4236 (111)	4516 (119)	5012 (132)	5938 (156)
Carbon Dioxide cu. ft. (cu. m)	3383 (89)	3619 (89)	4003 (105)	4511 (119)
Nitrous Oxide cu. ft. (cu. m)	3211 (84)	3429 (90)	3796 (100)	5419 (142)

- (1) Vented N.E.R based on usable liquid capacity
- (2) Container pressure at or above factory pressure/economizer regulator setting
- (3) Regulator has a pressure delta of 20 psig (1.4 bar/138 kPa)
- (4) 5-caster base used for weight and height measure. For 4-caster base square base with handle, add approx. 70 lb (32 kg) and ½ inch (12.7 mm)

Specifications subject to change without notice.

VHP Series

Gas and Liquid Withdrawal

Very High Pressure XL-50VHP

Liquefied or Gaseous Nitrogen, Oxygen, Argon, Carbon Dioxide

- Offers all the unique features of our HP models and more
- Increased maximum allowable working pressure of 500 psig (34 bar).
- Ideal for laser cutting and other high pressure applications



Part/Model No. XL-50VHP	
Dimensions	
Diameter in. (mm)	20 (508)
Height in. (mm)	64 3/4 (1559)
Weight	
Empty lb. (kg) (Nominal)	310 (141)
Maximum Liquid Capacity (liters)	188
Usable Liquid Capacity (liters)	176
Normal Evaporation Rate ¹ % Capacity/Day	
Oxygen	1.5%
Nitrogen	2.2%
Argon	1.5%
Carbon Dioxide	0.80%
Nitrous Oxide	N/A
Gas Withdrawal Rate ² @ NTP (STP)	
Oxygen cfh (cu. m/h)	350 (9.2)
Nitrogen cfh (cu. m/h)	350 (9.2)
Argon cfh (cu. m/h)	350 (9.2)
Carbon Dioxide cfh (cu. m/h)	150 (3.9)
Nitrous Oxide cfh (cu. m/h)	N/A
Dual Pressure Building/Economizer Regulator ³	
Pressure Building Setting	400 psig (28 bar/2758 kPa)
Economizer Setting	420 psig (29 bar/2896 kPa)
Design Specification	
TC N/A	N/A
DOT	4L
Rated DOT Service Pressure	412 psig (28.4 bar/2841 kPa)
Safety Devices	
Pressure Relief Valve	500 psig (34 bar/3447 kPa)
Inner Container Bursting Disc	750 psig (52 bar/5171 kPa)
Weight of Contents Based on DOT-Rated Service Pressure	
Oxygen lb. (kg)	364 (165)
Nitrogen lb. (kg)	240 (109)
Argon lb. (kg)	443 (201)
Carbon Dioxide lb. (kg)	381 (173)
Nitrous Oxide lb. (kg)	N/A
Gaseous Capacity Based on DOT-Rated Service Pressure @ NTP (STP)	
Oxygen cu. ft. (cu. m)	4397 (116)
Nitrogen cu. ft. (cu. m)	3312 (87)
Argon cu. ft. (cu. m)	4285 (113)
Carbon Dioxide cu. ft. (cu. m)	3330 (88)
Nitrous Oxide cu. ft. (cu. m)	N/A

(1) Vented N.E.R based on usable liquid capacity

(2) Container pressure at or above factory pressure/economizer regulator setting

(3) Regulator has a pressure delta of 20 psig (1.4 bar/138 kPa)

Specifications subject to change without notice.

Accessories

Make your tanks work even harder for you

Transfer Hoses

- Flexible, stainless steel construction in a variety of handy lengths



Part/Model No.			
Nitrogen and Argon LIQUID or VENT Connection			
CGA 295	4 ft. (1.2 m)	3/8 in. NPT	1700-9C65
CGA 295	6 ft. (1.8 m)	3/8 in. NPT	1600-9C66
Nitrogen and Argon USE Connection			
CGA 580	6 ft. (1.8 m)	3/8 in. NPT	GL50-8C51
Oxygen LIQUID or VENT Connection			
CGA 440	6 ft. (1.8 m)	3/8 in. NPT	GL50-8C53
Oxygen USE Connection			
CGA 540	6 ft. (1.8 m)	3/8 in. NPT	GL50-8C56
Carbon Dioxide LIQUID or Gas USE Connection			
CGA 320	6 ft. (1.8 m)	3/8 in. NPT	HP50-8C51
Carbon Dioxide Gas VENT Connection			
CGA 295	4 ft. (1.2 m)	3/8 in. NPT	1700-9C65
CGA 295	6 ft. (1.8 m)	3/8 in. NPT	1600-9C65

Cyrogenic Phase Separators

- Minimizes hazardous splashing and vaporization in 3 sizes to accommodate liquid transfer



Part/Model No.	
2 3/4 in. x 1 3/8 in. OD (3/8 in. NPT) (70 mm x 35 mm)	1193-8C80
1 1/4 in. x 1 in. OD (3/8 in. NPT) (32 mm x 25.4 mm)	1193-8C82
1 1/4 in. x 1/2 in. OD (1/8 in. NPT) (32 mm x 12.7 mm)	1193-8C83

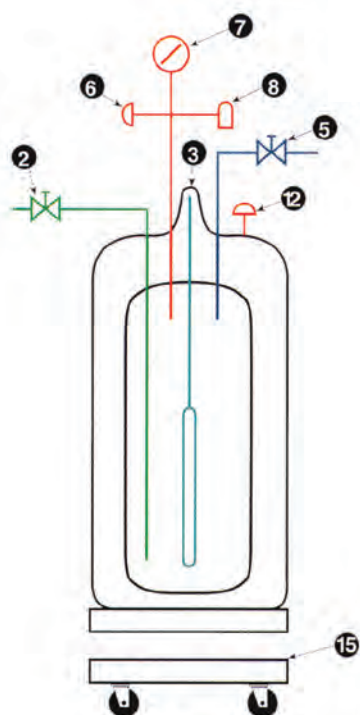
External Heat Exchanger

- Increases the gaseous delivery rate
- Easy to connect



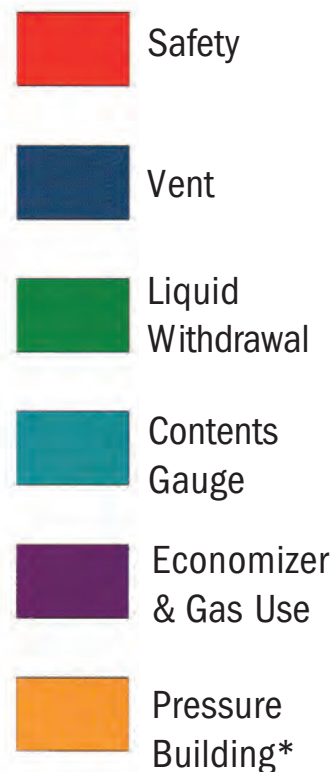
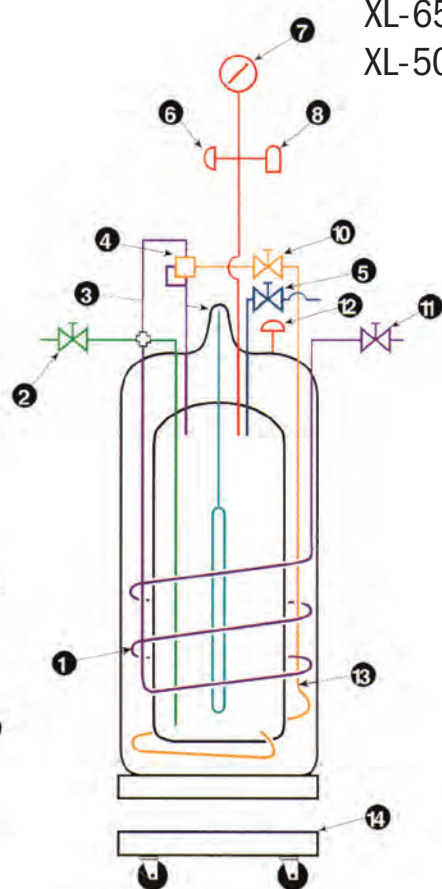
Part/Model No.	
External Heat Exchanger	VP50-7C10

FLOW DIAGRAM

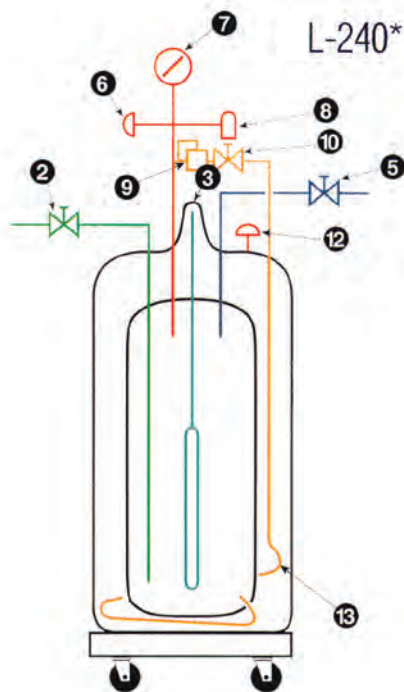


XL-160
XL-240

XL-45/45HP
XL-50/50HP
XL-55/55HP
XL-65/65HP
XL-50VHP



* Diagram shows XL-240 with pressure building system. XL-240 model also available without this feature.



L-240*

1. Vaporizer
2. Liquid Fill/Withdrawal Valve
3. Contents Gauge
4. Dual Pressure Building/Economizer Regulator
5. Vent Valve
6. Inner Containing Bursting Disc
7. Pressure Gauge
8. Pressure Relief Valve
9. Pressure Building Regulator
10. Pressure Building Valve
11. Gas Withdrawal (USE) Valve
12. Vacuum Bursting Disc
13. Pressure Building Coil
14. Square base for GL-65/HP-65 only, optional five caster base or four caster base with SureGrip handle available
15. Five caster base for XL-240

CRYOGENIC SOLUTIONS. EVERYWHERE.

- ✓ Worldwide locations
- ✓ Multi-lingual staff
- ✓ Customized solutions
- ✓ Superior products
- ✓ Quality
- ✓ Innovation
- ✓ Value

TAYLOR-WHARTON LOCATIONS

The Americas

Taylor-Wharton Cryogenics LLC

4075 Hamilton Boulevard
Theodore, AL 36582
Phone: + 251-443-8680
Phone: + 800-898-2657

Australia

Taylor-Wharton Australia Pty. Ltd.

Unit 1/882 Leslie Drive
Albury, NSW 2640
Australia
Phone: (+ 61 2) 60-402533

Europe

Taylor-Wharton Germany GmbH.

Postfach 1470
D-25804 Husum
Phone: +49 48 41 98 50

Taylor-Wharton Slovakia s.r.o.

Vstupný areál U.S. Steel
044 54 Košice
Slovakia
Phone: +421-55-72 77 125

Asia

Taylor-Wharton (Beijing) Cryogenic Equipment Co. Ltd.

East End of Ping An Street
Xianghe Economic Development Zone
Xianghe City, Lang Fang Prefecture
Hebei Province, PRC. 065402
Phone: +86 (0)316-8219770

Taylor-Wharton Malaysia Sdn. Bhd.

Lot Nos. PT5073, 5076 & 5077
Jalan Jangur 28/43
Hicom Industrial Estate
40400 Shah Alam
Selangor Darul Ehsan
Malaysia
Phone: (+60 3) 5191-3003



Taylor-Wharton

Delivering on our promise.™

SalesAmericas@taylorwharton.com • SalesEurope@taylorwharton.com • SalesAsia@taylorwharton.com

www.taylorwharton.com