

MEGA-CYL®

PALLETIZED CYLINDERS

The Mega-Cyl® Liquid Cylinder series is Chart's line of palletized cylinders designed for easy transport with capacities from 450 to 1000 liters. Engineered with the volume user in mind, it's ideal for construction sites, remote purging operations and back-up systems. Mega-Cyl cylinders are available in all services at 350 psig (24 barg) and are specifically designed to optimize distribution costs.

Examine the rugged, maneuverable Mega-Cyl series and you'll find all the quality features you expect from the industry leader, Chart.



PRODUCT HIGHLIGHTS

- Tough, durable stainless steel construction
- High-performance Super Insulation™
- Easily accessible valves and gauges
- Spray header for pump filling on vent tube
- Accurate differential pressure contents gauge (non-electric)
- Valve controlled road relief circuit with a 22 psi relief valve so the cylinder can be shipped full based on the DOT cryogenic exception rule CFR 49 section 173.320 for 800L and 1000L models
- Vibration resistant bottom support for greater robustness in transportable service
- Seven-year vacuum warranty



Innovation. Experience. Performance.®

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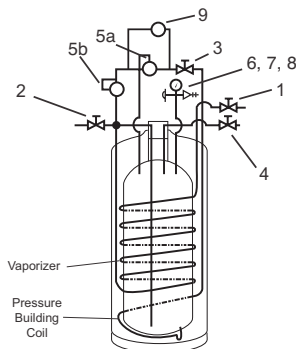
Specifications				
MODEL		450	800	1000
	Pressure	HP	HP	HP
	Part Number	10588979	10671262	10752281
CAPACITY				
Liquid (Gross)	(liters)	450	880	1056
Liquid (Net) ⁽¹⁾	(liters)	428	800	950
Gas (N ₂)	ft ³ / Nm ³	8,875 / 233.2	19,672 / 517	23,363 / 614
Gas (O ₂)	ft ³ / Nm ³	11,111 / 292	24,320 / 639.1	28,843 / 758
Gas (Ar)	ft ³ / Nm ³	10,812 / 284.1	23,767 / 624.6	28,234 / 742
Gas (CO ₂)	ft ³ / Nm ³	8,652 / 227.4	16,255 / 427.2	18,580 / 488.3
PERFORMANCE				
NER (N ₂)	% per day	2.1	1.8	1.3
NER (O ₂ , Ar)	% per day	1.4	1.2	0.9
NER (CO ₂ , N ₂ O)	% per day	0.6	0.5	0.3
Gas Flow (N ₂ , O ₂ , Ar)	SCFH/Nm ³ /hr	575 / 15.1	880 / 23.1	960 / 25.2
Gas Flow (CO ₂)	SCFH/Nm ³ /hr	195 / 5.1	280 / 7.4	300 / 7.9
DIMENSIONS & PRESSURE RATINGS				
Relief Valve Setting	psig / barg	350 / 24	350 / 24	350 / 24
DOT/CTC/ASME Rating		4L292	ASME Sec 8/Div1	ASME Sec 8/Div1
Diameter (cylinder)	in / cm	30 / 76.2	42 / 106.7	42 / 106.7
Height (cylinder)	in / cm	62 / 158	67 / 171	76 / 191
Base Width (frame) ⁽²⁾	in / cm	34 / 86.4	45 / 114	45 / 114
Base Depth (frame) ⁽²⁾	in / cm	34 / 86.4	45 / 114	45 / 114
Height (frame) ⁽²⁾	in / cm	74 / 188	95 / 241	95 / 241
Tare Wt. (cyl + frame) ⁽³⁾	lb / kg	1,275 / 580	2,500 / 1,136	2,650 / 1,205
Full Weight (N ₂)	lb / kg	1,918 / 872	3,926 / 1,784	4,343 / 1,974
(O ₂)	lb / kg	2,195 / 998	4,514 / 2,052	5,038 / 2,290
(Ar)	lb / kg	2,393 / 1,088	4,958 / 2,253	5,569 / 2,532
(CO ₂)	lb / kg	2,265 / 1,029	4,666 / 2,120	5,218 / 2,372

(1) CO₂ values and 450 liter models based on DOT4L fill density. N₂, O₂ and Ar values based on net volume at 0 psig.

(2) Customized pallets are available upon request.

(3) Weights are approximate and vary with pallet design.

450L Lab Base Tare Weight: 265 lbs
 450L Pallet Frame Tare Weight: 378 lbs
 800/1000L Lab Base Tare Weight: 300 lbs
 800/1000L Pallet Frame Tare Weight: 530 lbs



Nomenclature

1. Gas Use Valve
2. Fill / Liquid Valve
3. Pressure Control Valve
4. Vent Valve
- 5a. Pressure Control Regulator
- 5b. Economizer Regulator
6. Pressure Gauge
7. Pressure Relief Valve
8. Rupture Disk
9. Liquid Level Gauge

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