

CO₂ Selection Guide



Carbo Series Bulk CO₂ Systems

The Carbo Series system incorporates the Sure-Fill™ system designed to allow single-hose filling with minimal losses. Most Carbo Series tanks can be equipped with optional legs.



Dura-Cyl® Liquid Cylinders

Chart's Dura-Cyl series is a premium transportable liquid cylinder for cryogenic service. The patented internal support system design and quality construction makes the Dura-Cyl series the most efficient yet rugged cylinder on the market today.



Mega-Cyl™ Liquid Cylinders

The Mega-Cyl product introduces Chart's line of palletized cylinders, designed for easy transport. It is ideal for construction sites, remote purging operations and back-up systems.



Perma-Cyl® MicroBulk Storage Systems

The innovative Perma-Cyl storage system can be ordered with the CO₂ Sure-Fill™ system to allow single-hose filling with minimal losses. The Perma-Cyl design offers many revolutionary advantages such as fast fill capacity, extended hold time and telemetry compatibility.

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All data for CO ₂	Carbo Series Bulk CO ₂ Systems							Dura-Cyl [®] Liquid Cylinders					Mega-Cyl [™] Liquid Cylinders			Perma-Cyl [®] MicroBulk Storage Systems									
	Carbo-Mite [®] 220	Carbo-Mizer [®] 300	Carbo-Mizer [®] 450	Carbo-Mizer [®] 550	Carbo-Mizer [®] 750	Carbo-Max [®] 750	Carbo-Max [®] 1000	Dura-Cyl [®] 160	Dura-Cyl [®] 180	Dura-Cyl [®] 200	Dura-Cyl [®] 230 RB	Dura-Cyl [®] 265 RB	Mega-Cyl [™] 450	Mega-Cyl [™] 800	Mega-Cyl [™] 1000	Perma-Cyl [®] 230 RB/SB	Perma-Cyl [®] 450	Perma-Cyl [®] 700	Perma-Cyl [®] 1000	Perma-Cyl [®] 1500	Perma-Cyl [®] 2000**	Perma-Cyl [®] 2000 VHP	Perma-Cyl [®] 3000**	Perma-Cyl [®] 3000 VHP	
Dimensions																									
Diameter	20"	20"	20"	22"	26"	26"	30"	20"	20"	20"	26"	26"	30"	42"	42"	26"	30"	42"	42"	48"	48"	48"	58"	58"	
Height*	40"	49.63"	65.88"	66.9"	67.88"	67.88"	72.5"	59.8"	64.3"	66.6"	57.2"	59.9"	62"	67"	76"	61.8"	69"	62.5"	82"	92"	116"	119.6"	122"	122.25"	
Tare Weight (lbs)	156	216	273	318	430	430	788	280	300	320	367	390	1275	2500	2650	340	688	1250	1500	2200	2950	3860	3300	4500	
Thermal Performance (NER%/Day)	0.4%	0.6%	0.5%	0.4%	0.4%	0.4%	0.6%	0.5%	0.5%	0.5%	0.5%	0.5%	0.6%	0.5%	0.3%	0.6%	0.6%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	
Storage Capacity (Net/DOT****)																									
SCF	1603	2562	4088	5105	6897	6897	8741	3382	3766	4011	4614	5305	8652	16255	18580	4615	8312	12608	19960	29340	38048	38048	52954	52954	
Lb	221	299	477	584	789	789	1000	387	431	459	528	607	990	1936	2323	528	951	1442	2283	3356	4353	4353	6057	6057	
Gas Delivery Rate (continuous)****																									
SCFH	8.74	8.74	48	56.8	87.4	131.1	262	110.0	110.0	110.0	110.0	110.0	195.0	280.0	300.0	133.0	192.0	220.0	320.0	450.0	500.0 ⁽¹⁾	667.0 ⁽¹⁾	500.0 ⁽¹⁾	667.0 ⁽¹⁾	
Lb/Hour	1.0	1.0	5.5	6.5	10.0	15.0	30.0	12.6	12.6	12.6	12.6	12.6	22.3	32.0	34.3	22.0	22.0	25.0	36.0	51.0	57.0	76.0	57.0	76.0	
Gas Delivery Rate (Peak)****																									
Lb/Hour	1.5	3.0	10.0	10.0	15.0	40.0	50.0																		
Design Specification																									
DOT***								X	X	X	X	X	X			X	X								
ASME	X	X	X	X	X	X	X							X	X		X	X	X	X	X	X	X	X	
MAWP (psig)	300	300	300	300	300	300	300	350	350	350	350	350	350	350	350	350	350/500	350	350/500	350/500	350	500	350	500	
Standard Design Features																									
Max Operating Pressure																									
175 PSIG	X	X	X	X	X	X	X																		
300 PSIG								X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
450 PSIG																	X		X	X		X		X	
Gas Withdrawal (PB)		X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	
Liquid Withdrawal (Economizer)	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Optional Design Features																									
Sure-Fill [™]		X	X	X	X	X	X									X	X	X	X	X					
ZX Pressure Build System Available																			X	X	X	X	X	X	

* Carbo Series heights without 6" legs. ** CO₂ specific tanks. *** DOT = Department of Transportation **** Values are based on vessel or vaporizer operating in ambient conditions of 70° F & 50% relative humidity. ⁽¹⁾ See product spec sheets for details.



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

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