

CO₂ Selection Guide



Carbo-Series 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® 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™ 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® 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							Dura-Cyl					Mega-Cyl			Perma-Cyl							
	Mite 220	Mizer 300	Mizer 450	Mizer 550	Mizer 750	Max 750	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 3000	
Dimensions																							
Diameter	20"	20"	20"	22"	26"	26"	30"	20"	20"	20"	26"	26"	30"	42"	42"	26"	30"	42"	42"	48"	48"	59"	
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"	118.5"	122"	
Tare Weight (lbs)	156	216	273	318	430	430	788	280	300	320	367	390	1275	2500	2650	340	688	1250	1500	2200	2600	3300	
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%	
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	52954	
Lb	221	299	477	584	789	789	1000	387	431	459	528	607	990	1936	2323	528	951	1442	2283	3356	4352	6058	
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	450.0	450.0	
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	51.0	51.5	
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	
MAWP (psig)	300	300	300	300	300	300	300	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	
Standard Design Features																							
Max Operating Pressure																							
250 PSIG																							
300 PSIG	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
450 PSIG																							
Internal Pressure Build																							
Liquid Withdrawal		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	X	X	
ZX Pressure Build System Available																			X	X	X	X	

* Carbo-Series heights without 6" legs. ** DOT = Department of Transportation *** Values are based on vessel or vaporizer operating in ambient conditions of 70° F and 50% relative humidity.

