



Nitrogen, Oxygen and Argon

Model	450 Liter			1000 Liter			1500 Liter	
	450MP	450HP	450VHP	1000MP	1000HP	1000VHP	1500HP	1500VHP
Capacity								
Gross Capacity (liters)	450	450	450	1,056	1,056	1,056	1,550	1,550
Net Capacity (liters)	420	420	420	950	950	950	1,455	1,455
MAWP								
psig (bar)	250 (17.2)	350 (24.1)	500 (34.5)	250 (17.2)	350 (24.1)	500 (34.5)	350 (24.1)	500 (34.5)
Storage Capacity								
Nitrogen (scf)	10,332	10,332	10,332	23,370	23,370	23,370	35,550	35,550
Nitrogen (Nm ³)	272	272	272	615	615	615	935	935
Oxygen (scf)	12,760	12,760	12,760	28,861	28,861	28,861	43,900	43,900
Oxygen (Nm ³)	336	336	336	759	759	759	1,155	1,155
Argon (scf)	12,478	12,478	12,478	28,225	28,225	28,225	42,950	42,950
Argon (Nm ³)	328	328	328	742	742	742	1,130	1,130
Thermal Performance (NER/Day)								
Nitrogen	1.80%	1.80%	1.80%	1%	1%	1%	1%	1%
Oxygen – Argon	1.12%	1.12%	1.12%	0.62%	0.62%	0.62%	0.62%	0.62%
Gas Delivery Rate								
scf/h (m ³ /h)	575 (15.1)	575 (15.1)	575 (15.1)	960 (25.2)	960 (25.2)	960 (25.2)	1,350 (35.4)	1,350 (35.4)
Diameter								
in (cm)	30 (76)	30 (76)	30 (76)	42 (107)	42 (107)	42 (107)	48 (122)	48 (122)
Height								
in (cm)	68 (173)	68 (173)	68 (173)	77 (196)	77 (196)	77 (196)	91 (231)	91 (231)
Tare Weight								
lb (kg)	605 (274)	688 (312)	812 (368)	1,550 (703)	1,750 (794)	2,080 (945)	2,692 (1,221)	3,200 (1,451)
Design Specification								
	ASME	ASME	ASME	ASME	ASME	ASME	ASME	ASME

Carbon Dioxide

Model	160 lb	300 lb	400 lb	600 lb
Liquid Storage Capacity (lb)	160	300	400	600
Gross Capacity (liters)	71	128	175	275
MAWP psig (bar)	300 (21)	300 (21)	300 (21)	300 (21)
Operating Pressure psig (bar)	125 (8.6)	125 (8.6)	125 (8.6)	125 (8.6)
Evaporation Rate (lb/day)	1.2	2.0	2.5	3.5
CO ₂ Delivery Rate (lb/h)	0.75	1.0	5.5	15.0
Diameter in (cm)	20 (51)	20 (51)	20 (51)	24 (61)
Height in (cm)	31 (79)	47 (119)	68 (173)	68 (173)
Empty Weight lb (kg)	145 (66)	200 (91)	305 (139)	375 (170)
Design Specification	ASME	ASME	ASME	ASME

Normal Boiling Point

Liquid Argon	-302 °F (-185 °C)
Liquid Nitrogen	-320 °F (-196 °C)
Liquid Oxygen	-297 °F (-183 °C)

Sublimation Point

Liquid CO ₂	-109.3 °F (-78.5 °C)
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