



Sectional Welded Chamber Datasheet

Primary Chamber Size		36 × 36	48 × 48	60 × 60	72 × 72
Section Inner Dimensions		<i>in(cm)</i>			
	Width	36 (91.4)	48 (121.9)	60 (152.4)	72 (182.9)
	Height	36 (91.4)	48 (121.9)	60 (152.4)	72 (182.9)
	Depth	36.06(91.6)			
Section Outer Dimensions		<i>in(cm)</i>			
	Width	43.75 (111.1)	55.75 (141.6)	67.75 (172.1)	79.75 (202.6)
	Height	43.75 (111.1)	55.75 (141.6)	67.75 (172.1)	79.75 (202.6)
	Depth	36.06(91.6)			
Surface Area		<i>ft²(m²)</i>			
	Chamber Section	36.2 (3.4)	48.1 (4.5)	60 (5.6)	71.9 (6.7)
	Door/Cap	12.1 (1.1)	20 (1.9)	29.9 (2.8)	42.5 (4)
Volume		<i>ft³(m³)</i>			
	Section Volume	27 (0.8)	48.1 (1.4)	75.1 (2.1)	108.2 (3.1)
Chamber Mass		<i>lb(kg)</i>			
	Section (No Ports)	1215 (551)	1602 (726.5)	1990 (902.5)	2377 (1078)
	Door/Cap	500 (226.8)	739 (335.1)	1020 (462.6)	1358 (615.9)
Material					
	Chamber Material	304L Stainless Steel			
	Surface Finish	#4 Mechanical Polish			
	Door/Section Seal	<i>Viton (Alternate materials available upon request)</i>			
Pressure					
	Min Pressure*	5×10^{-8} torr			
	Max Pressure**	Contact Ideal Vacuum for positive pressure applications			
	Chamber Gas Load	Under vacuum 1 hour, 2.0×10^{-8} torr·liters/sec·cm ²			
	Chamber Gas Load	Under vacuum 10 hours, 3.4×10^{-9} torr·liters/sec·cm ²			
Support					
	Lifting Points	1/2"-20 Threaded Lifting Lug Mounting Points			
	Chamber Stand	Options Available			
	ExploraVac Control	ExploraVac Unlimited Available			

*Ultimate vacuum pressure achievable with appropriately matched high vacuum pumping system.

**Maximum pressure rating with fully bolted door/cap flanges.

