



Sectional Welded Chamber Datasheet

Primary Chamber Size*		36 × 36	48 × 48	60 × 60	72 × 72	84 × 84	96 × 96	108 × 108
Section Inner Dimensions		<i>in(cm)</i>						
	Width	36 (91.4)	48 (121.9)	60 (152.4)	72 (182.9)	84 (213.4)	96 (243.8)	108 (274.3)
	Height	36 (91.4)	48 (121.9)	60 (152.4)	72 (182.9)	84 (213.4)	96 (243.8)	108 (274.3)
	Depth	36.06(91.6)						
Section Outer Dimensions		<i>in(cm)</i>						
	Width	46 (116.8)	58 (147.3)	70 (177.8)	82 (208.3)	94 (238.8)	110 (279.4)	122 (309.9)
	Height	46 (116.8)	58 (147.3)	70 (177.8)	82 (208.3)	94 (238.8)	110 (279.4)	122 (309.9)
	Depth	36.06(91.6)						
Internal Surface Area		<i>ft²(m²)</i>						
	Chamber Section	36.1 (3.4)	48.1 (4.5)	59.2 (5.5)	71.2 (6.6)	83.3 (7.7)	95.3 (8.9)	107.3 (10)
	Door/Cap**	12.3 (1.1)	20.8 (1.9)	31.6 (2.9)	44.6 (4.1)	59.7 (5.5)	77.1 (7.2)	96.8 (9)
Internal Volume		<i>ft³(m³)</i>						
	Section Volume	27 (0.8)	48.1 (1.4)	75.1 (2.1)	108.1 (3.1)	147.2 (4.2)	192.3 (5.4)	243.3 (6.9)
Chamber Mass		<i>lb. (kg)</i>						
	Section (No Ports)	1532 (695)	2156 (978)	2618 (1187)	3093 (1403)	3568 (1618)	5137 (2330)	5784 (2624)
	Door/Cap (No Ports)	665 (302)	984 (446)	1356 (615)	1783 (809)	2263 (1027)	3140 (1425)	3759 (1705)
Material		-						
	Chamber Material	304 Stainless Steel						
	Surface Finish	#4 Mechanical Polish						
	Door/Section Seal	Viton (Alternate materials available upon request)						
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:cm²						
	Chamber Gas Load	Under vacuum 10 hours, 3.4 × 10 ⁻⁹ torr-liters/sec:cm²						
Support		-						
	Lifting Points	1/2"-20 Threaded Lifting Lug Mounting Points						
	Chamber Stand	Options Available						
	ExploraVac Control	ExploraVac Unlimited Available						

*Different aspect ratios available upon request.

**Door/End Cap surface areas do not account for potential bracing.

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

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

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