

Tables 1 & 2 provide the cumulative storage volumes for the HydroStor HS75 chamber and end cap. These tables can be used to calculate the stage-storage volumes for the retention or detention systems. Contact your local Prinsco Representative for more information regarding the stage storage volumes.

Table 1 – HS75 Incremental Storage Volume per Chamber

Depth of water in the System in. (mm)	Cumulative Single Chamber Storage ft ³ (m ³)	Cumulative Storage for System ft ³ (m ³)	Depth of water in the System in. (mm)	Cumulative Single Chamber Storage ft ³ (m ³)	Cumulative Storage for System ft ³ (m ³)
42 (1067)	▲ 46.6 (1.32)	74.99 (2.12)	21 (533)	30.38 (0.86)	41.75 (1.18)
41 (1041)	46.6 (1.32)	73.87 (2.09)	20 (508)	28.61 (0.81)	39.57 (1.12)
40 (1016)	Stone 46.6 (1.32)	72.75 (2.06)	19 (483)	26.79 (0.76)	37.36 (1.06)
39 (991)	Cover 46.6 (1.32)	71.63 (2.03)	18 (457)	24.93 (0.71)	35.12 (0.99)
38 (965)	46.6 (1.32)	70.51 (2)	17 (432)	23.03 (0.65)	32.86 (0.93)
37 (940)	▼ 46.6 (1.32)	69.39 (1.96)	16 (406)	21.09 (0.6)	30.58 (0.87)
36 (914)	46.6 (1.32)	68.27 (1.93)	15 (381)	19.12 (0.54)	28.28 (0.8)
35 (889)	46.56 (1.32)	67.13 (1.9)	14 (356)	17.11 (0.48)	25.95 (0.73)
34 (864)	46.38 (1.31)	65.9 (1.87)	13 (330)	15.07 (0.43)	23.61 (0.67)
33 (838)	46.08 (1.3)	64.6 (1.83)	12 (305)	13 (0.37)	21.25 (0.6)
32 (813)	45.45 (1.29)	63.1 (1.79)	11 (279)	10.9 (0.31)	18.87 (0.53)
31 (787)	44.59 (1.26)	61.46 (1.74)	10 (254)	8.77 (0.25)	16.47 (0.47)
30 (762)	43.57 (1.23)	59.73 (1.69)	9 (229)	6.62 (0.19)	14.06 (0.4)
29 (737)	42.43 (1.2)	57.93 (1.64)	8 (203)	4.44 (0.13)	11.63 (0.33)
28 (711)	41.18 (1.17)	56.06 (1.59)	7 (178)	2.23 (0.06)	9.18 (0.26)
27 (686)	39.84 (1.13)	54.14 (1.53)	6 (152)	▲ 0 (0)	6.72 (0.19)
26 (660)	38.42 (1.09)	52.17 (1.48)	5 (127)	0 (0)	5.6 (0.16)
25 (635)	36.93 (1.05)	50.16 (1.42)	4 (102)	Stone 0 (0)	4.48 (0.13)
24 (610)	35.38 (1)	48.11 (1.36)	3 (76)	Foundation 0 (0)	3.36 (0.1)
23 (584)	33.77 (0.96)	46.02 (1.3)	2 (51)	▼ 0 (0)	2.24 (0.06)
22 (559)	32.1 (0.91)	43.9 (1.24)	1 (25)	0 (0)	1.12 (0.03)

Note: Calculations assume 6" (150 mm) of stone above chambers, 6" stone for foundation, 6" (150 mm) of stone between chambers and 40% stone porosity. Add 1.12 ft³ (0.032 m³) for each additional inch of stone foundation or cover.



Table 2 – HS75 Incremental Storage Volume per End Cap

Depth of water in the System in. (mm)	Cumulative Single End Cap Storage ft ³ (m ³)	Cumulative Storage for System ft ³ (m ³)	Depth of water in the System in. (mm)	Cumulative Single End Cap Storage ft ³ (m ³)	Cumulative Storage for System ft ³ (m ³)
42 (1067)	↑ 3.4 (0.1)	14.53 (0.41)	21 (533)	2.29 (0.06)	7.62 (0.22)
41 (1041)		14.23 (0.4)	20 (508)	2.16 (0.06)	7.25 (0.21)
40 (1016)	Stone	13.93 (0.39)	19 (483)	2.02 (0.06)	6.87 (0.19)
39 (991)	Cover ↓	13.63 (0.39)	18 (457)	1.88 (0.05)	6.49 (0.18)
38 (965)		13.33 (0.38)	17 (432)	1.74 (0.05)	6.11 (0.17)
37 (940)	3.4 (0.1)	13.03 (0.37)	16 (406)	1.59 (0.05)	5.72 (0.16)
36 (914)	3.4 (0.1)	12.73 (0.36)	15 (381)	1.44 (0.04)	5.33 (0.15)
35 (889)	3.4 (0.1)	12.43 (0.35)	14 (356)	1.29 (0.04)	4.94 (0.14)
34 (864)	3.39 (0.1)	12.13 (0.34)	13 (330)	1.13 (0.03)	4.55 (0.13)
33 (838)	3.36 (0.1)	11.82 (0.33)	12 (305)	0.97 (0.03)	4.16 (0.12)
32 (813)	3.32 (0.09)	11.5 (0.33)	11 (279)	0.81 (0.02)	3.77 (0.11)
31 (787)	3.27 (0.09)	11.17 (0.32)	10 (254)	0.65 (0.02)	3.38 (0.1)
30 (762)	3.21 (0.09)	10.84 (0.31)	9 (229)	0.49 (0.01)	2.99 (0.08)
29 (737)	3.14 (0.09)	10.5 (0.3)	8 (203)	0.32 (0.01)	2.59 (0.07)
28 (711)	3.06 (0.09)	10.16 (0.29)	7 (178)	0.15 (0)	2.19 (0.06)
27 (686)	2.97 (0.08)	9.81 (0.28)	6 (152)	↑ 0 (0)	1.8 (0.05)
26 (660)	2.87 (0.08)	9.45 (0.27)	5 (127)		1.5 (0.04)
25 (635)	2.77 (0.08)	9.09 (0.26)	4 (102)	Stone	1.2 (0.03)
24 (610)	2.66 (0.08)	8.73 (0.25)	3 (76)	Foundation	0.9 (0.03)
23 (584)	2.54 (0.07)	8.36 (0.24)	2 (51)	↓ 0 (0)	0.6 (0.02)
22 (559)	2.42 (0.07)	7.99 (0.23)	1 (25)		0.3 (0.01)

Note: Calculations assume 6" (150 mm) of stone above chambers, 6" stone for foundation, 6" (150 mm) of stone between chambers and 40% stone porosity. Add 0.30 ft³ (0.008 m³) for each additional inch of stone foundation or cover.