

# GUIDELINE: Number of ZGF Spring Filter Elements Required / Recommended System

Flowrate (gpm)	20 Micron	35 Micron	50 Micron	75 Micron	100 - 400 Micron
45	4.5 Phoenix	2.7 Phoenix	2.1 Phoenix	1.8 Phoenix	1.5 Phoenix
90	9.0 Duplex Phoenix	5.5 Phoenix	4.2 Phoenix	3.7 Phoenix	3.0 Phoenix
100	10.0 Duplex Phoenix	6.1 Phoenix*	4.7 Phoenix	4.1 Phoenix	3.3 Phoenix
150	15.0 EC700SLT, 3-Pod	9.1 Duplex Phoenix	7.0 Phoenix	6.1 Phoenix	5.0 Phoenix
200	20.0 EC700SLT, 3-Pod	12.1 EC700SLT, 3-Pod	9.3 Duplex Phoenix	8.2 Duplex Phoenix	6.7 Phoenix
250	25.0 EC700SLT, 4-Pod	15.2 EC700SLT, 3-Pod	11.6 Duplex Phoenix	10.2 Duplex Phoenix	8.3 Duplex Phoenix
300	30.0 EC700SLT, 5-Pod	18.2 EC700SLT, 3-Pod	14.0 EC700S, 3-Pod	12.2 Duplex Phoenix*	10.0 Duplex Phoenix
350	35.0 EC700SLT, 5-Pod	21.2 EC700SLT, 4-Pod	16.3 EC700S, 3-Pod	14.3 Duplex Phoenix*	11.7 Duplex Phoenix
400	40.0 EC700SLT, 6-Pod	24.2 EC700SLT, 4-Pod	18.6 EC700S, 3-Pod	16.3 EC700S, 3-Pod	13.3 EC700S, 3-Pod
450	45.0 EC700SLT, 7-Pod	27.3 EC700SLT, 4-Pod	20.9 EC700S, 3-Pod	18.4 EC700S, 3-Pod	15.0 EC700S, 3-Pod
500	50.0 EC700SLT, 8-Pod	30.3 EC700SLT, 5-Pod	23.3 EC700S, 4-Pod	20.4 EC700S, 3-Pod	16.7 EC700S, 3-Pod
550	55.0 EC700SLT, 8-Pod	33.3 EC700SLT, 5-Pod	25.6 EC700S, 4-Pod	22.4 EC700S, 4-Pod	18.3 EC700S, 3-Pod
600	60.0 EC700SLT, 9-Pod	36.4 EC700SLT, 6-Pod	27.9 EC700S, 4-Pod	24.5 EC700S, 4-Pod	20.0 EC700S, 3-Pod
650	65.0 EC700SLT, 10-Pod	39.4 EC700SLT, 6-Pod	30.2 EC700S, 5-Pod	26.5 EC700S, 4-Pod	21.7 EC700S, 4-Pod

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700	70.0	42.4	32.6	28.6	23.3
	EC700SLT, 10-Pod	EC700SLT, 8-Pod	EC700S, 5-Pod	EC700S, 5-Pod	EC700S, 4-Pod
750	75.0	45.5	34.9	30.6	25.0
	EC700SLT, 11-Pod	EC700SLT, 7-Pod	EC700S, 5-Pod	EC700S, 5-Pod	EC700S, 4-Pod
800	80.0	48.5	37.2	32.7	26.7
	EC700SLT, 12-Pod	EC700SLT, 7-Pod	EC700S, 6-Pod	EC700S, 5-Pod	EC700S, 4-Pod
850	85.0	51.5	39.5	34.7	28.3
	EC700SLT, 13-Pod	EC700SLT, 8-Pod	EC700S, 7-Pod	EC700S, 5-Pod	EC700S, 5-Pod
900	90.0	54.5	41.9	36.7	30.0
	EC700SLT, 13-Pod	EC700SLT, 8-Pod	EC700S, 6-Pod	EC700S, 6-Pod	EC700S, 5-Pod
950	95.0	57.6	44.2	38.8	31.7
	EC700SLT, 14-Pod	EC700SLT, 9-Pod	EC700S, 7-Pod	EC700S, 6-Pod	EC700S, 5-Pod
1,000	100.0	60.6	46.5	40.8	33.3
	EC700SLT, 15-Pod	EC700SLT, 9-Pod	EC700S, 7-Pod	EC700S, 6-Pod	EC700S, 5-Pod
1,100	110.0	66.7	51.2	44.9	36.7
	EC700SLT, 16-Pod	EC700SLT, 10-Pod	EC700S, 8-Pod	EC700S, 7-Pod	EC700S, 6-Pod
1,200	120.0	72.7	55.8	49.0	40.0
	EC700SLT, 18-Pod	EC700SLT, 11-Pod	EC700S, 8-Pod	EC700S, 7-Pod	EC700S, 6-Pod
1,300	130.0	78.8	60.5	53.1	43.3
	EC700SLT, 19-Pod	EC700SLT, 12-Pod	EC700S, 9-Pod	EC700S, 8-Pod	EC700S, 7-Pod
1,400	140.0	84.8	65.1	57.1	46.7
	EC700SLT, 20-Pod	EC700SLT, 13-Pod	EC700S, 10-Pod	EC700S, 9-Pod	EC700S, 7-Pod
1,500	150.0	90.9	69.8	61.2	50.0
	EC700SLT, 22-Pod	EC700SLT, 13-Pod	EC700S, 10-Pod	EC700S, 9-Pod	EC700S, 8-Pod

**NOTES:**

\* Exceeds typical/design clean differential of 2 psid. Recommended only when solids loading is very low.

1. The standard EC700SLT and EC700S building blocks are 3-Pod, 4-Pod, 5-Pod and 6-Pod.
2. Any system larger than 6 pods will utilize the best combination of standard building blocks to meet the requirement.
3. The "LT" design is typically utilized with 20  $\mu$  and 35  $\mu$  filter elements / 50-400  $\mu$  filter elements can be used / Max flow/LT pod = 125 gpm
4. The design flowrates are based upon ZGF data collected from the flow / pressure study conducted in August 2016.
5. Design flowrate/filter element - 20 $\mu$  : 10 gpm / 35 $\mu$  : 16.5 gpm / 50 $\mu$  : 21.5 gpm / 75 $\mu$  : 24.5 gpm / 100 - 400 $\mu$  : 30 gpm.