

LUCHTEL **DISTRIBUTING** **LUXURY WATER**

SIZING CHART



For Autotrol
and Fleck
Luxury Water
Conditioners

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HOW TO USE SIZING CHART

Test water for hardness and iron content. Check top line for hardness. Check side column for number in family. This will determine total grains per day as well as proper unit to use. If stools stay on hard water, divide total grain usage in half and use the total. If hot water only is to be softened divide original total by 4 and adjust this figure. See Chart 2 for corresponding model, then refer to Chart 3 for salt setting.

CHART 2

For
Higher Iron Content
And Suspended Iron
Use Iron Filter
Ahead Of Softener

LEGEND

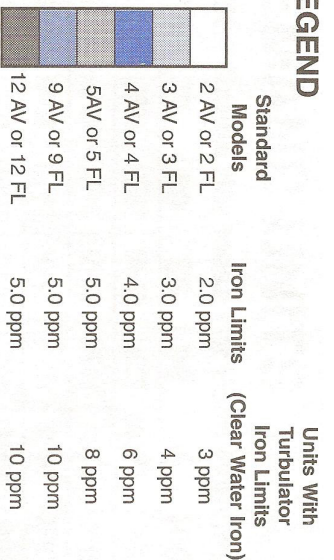


CHART 1

Water Hardness -- Grains Per Gallon -- Daily Total

See Chart 3 To Determine Correct Setting

	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	325	390	455	520	585	650	715	780	845	910	975	1040	1105	1170	1235	1300	1365	1430	1495	1560	1625
2	650	780	910	1040	1170	1300	1430	1560	1690	1820	1950	2080	2210	2340	2470	2600	2730	2860	2990	3120	3250
3	975	1170	1365	1560	1755	1950	2145	2340	2535	2730	2925	3120	3315	3510	3705	3900	4095	4290	4485	4680	4875
4	1300	1560	1820	2080	2340	2600	2860	3120	3380	3640	3900	4160	4420	4680	4940	5200	5460	5720	5980	6240	6500
5	1625	1950	2275	2600	2925	3250	3575	3900	4225	4550	4875	5200	5525	5850	6175	6500	6825	7150	7475	7800	8125
6	1950	2340	2730	3120	3510	3900	4290	4680	5070	5460	5850	6240	6630	7020	7410	7800	8190	8580	8970	9360	9750
7	2275	2730	3185	3640	4095	4550	5005	5460	5915	6370	6825	7280	7735	8190	8645	9100	9555	10010	10460	10920	11375
8	2600	3120	3640	4160	4680	5200	5720	6240	6760	7280	7800	8320	8840	9360	9880	10400	10920	11440	11960	12480	13000
9	2925	3510	4095	4680	5260	5850	6435	7020	7605	8190	8575	9360	9945	10530	11115	11700	12285	12870	13455	14040	14625
10	3250	3900	4550	5200	5850	6500	7150	7800	8450	9100	9750	10400	11050	11700	12350	13000	13650	14300	14950	15600	16250

NUMBER IN FAMILY

-- Grains Per Gallon --

	26	27	28	29	30	31	32	33	34	35	36	37	38	40	42	44	46	48	50	52	54
1	1690	1775	1820	1885	1950	2015	2080	2145	2210	2275	2340	2405	2470	2600	2730	2860	2990	3120	3250	3380	3510
2	3380	3510	3640	3770	3990	4030	4160	4290	4420	4550	4680	4810	4940	5200	5460	5720	5980	6240	6500	6760	7020
3	5070	5265	5460	5655	5850	6075	6240	6435	6630	6825	7020	7215	7410	7800	8190	8580	8970	9360	9750	10140	10530
4	6760	7020	7280	7540	7800	8060	8320	8580	8840	9100	9360	9620	9880	10400	10920	11440	11960	12480	13000	13520	14040
5	8450	8775	9100	9425	9750	10075	10400	10725	11050	11375	11700	12025	12350	13000	13650	14300	14950	15600	16250	16900	17550
6	10140	10530	10920	11310	11700	12150	12480	12870	13260	13650	14040	14430	14820	15600	16380	17160	17940	18720	19500	20280	21060
7	11830	12285	12740	13195	13650	14105	14560	15015	15470	15925	16380	16835	17290	18200	19110	20020	20930	21840	22750	23660	24570
8	13520	14040	14560	15080	15600	16120	16640	17160	17680	18200	18720	19240	19760	20800	21840	22880	23920	24960	26000	27040	28080
9	15210	15795	16380	16965	17550	18135	18720	19305	19890	20475	21060	21645	22230	23400	24570	25740	26910	28080	29250	30420	31590
10	16900	17550	18200	18850	19500	20150	20800	21450	22100	22750	23400	24050	24700	26000	27300	28600	29900	31200	32500	33800	35100

NUMBER IN FAMILY

		GRAINS PER GALLON																			
		56	58	60	62	64	66	68	70	72	76	80	84	88	92	96	100	105	110	115	120
1	3640	3770	3900	4030	4160	4290	4420	4550	4680	4940	5200	5460	5720	5980	6240	6500	6825	7150	7475	7800	
2	7280	7540	7800	8060	8320	8580	8840	9100	9360	9880	10400	10920	11440	11960	12480	13000	13650	14300	14950	15600	
3	10920	11310	11700	12090	12480	12870	13260	13650	14040	14820	15600	16380	17160	17940	18720	19500	20475	21450	22425	23400	
4	14560	15080	15600	16200	16640	17160	17680	18200	18720	19760	20800	21840	22880	23920	24960	26000	27300	28600	29900	31200	
5	18200	18850	19500	20150	20800	21450	22100	22750	23400	24700	26000	27300	28600	29900	31200	32500	34125	35750	37375	39000	
6	21840	22620	23400	24180	24960	25740	26520	27300	28080	29640	31200	32760	34320	35880	37440	39000	40950	42900	44850	46800	
7	25480	26390	27300	28210	29120	30030	30940	31850	32760	34580	36400	38220	40040	41860	43680	45500	47775	50050	52325	54600	
8	29120	30160	31200	32400	33280	34320	35360	36400	37440	39520	41600	43680	45760	47840	49920	52000	54600	57200	59800	62400	
9	32760	33930	35100	36270	37440	38610	39780	40950	42120	44460	46800	49140	51480	53820	56160	68500	61425	64350	67275	70200	
10	36400	37700	39000	40300	41600	42900	44200	45500	46800	49400	52000	54600	57200	59800	62400	65000	68250	71500	74750	78000	

Regeneration Frequency and Salt Setting

Frequency of regeneration - every day, every other day, every third day or every sixth day.
 Multiply days between regeneration by daily grain total to find correct salt setting.

CHART 3

UNIT	Salt Settings -- Grains To Recover Per Regeneration																					
	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000	16000	18000	20000	22000	24000	26000	28000	30000	34000			
2 AV or 2FL	3lbs.	3	3½	4	4½	5	5½	6	6½													
3 AV or 3 FL	3lbs.	3	3½	4	4½	5	5½	6	6½	6	6½	7	7½	8								
4 AV or 4 FL					4	4½	5	5½	6	6½	7	7½	8	8½	9	10						
5 AV or 5 FL										6	6½	7	7½	8	8½	9	9½	10	10	12		
9 AV or 9 FL																	9	9½	9½	10		
UNIT	38000	42000	46000	50000	54000	58000	62000	66000	70000	74000	78000	82000										
9 AV or 9FL	11	12	14	16	18	22	25	28														
12 AV or 12FL	11	12	13	15	16	18	20	22	24	26	28	30										

Models 9 AV and 12 AV will provide up to 40 lbs. of salt setting

NOTE:

These settings will handle 1 to 2 parts iron. For additional iron add 3 grains to hardness for each part of iron. Never exceed more than ¾ unit total capacity per regeneration.

EXAMPLE:

Hardness 30 grains per gal., 5 in family. Go to "Hardness Column" 30 and down to "Family of 5" in Chart 1. Total is 9750 grains per day. See Chart 2. Match the shaded color, the desired unit is a 4 AV or 4 FL. Chart 3 shows that every other day regeneration (9750 x 2 = 19500) at 8 lbs. of salt is most economical.

SIZING CHART FOR AUTOTROL MP DEMAND UNITS

Water Hardness -- Grains Per Gallon

Important -- Add 3 Or 4 Grains Hardness For Each Ppm Iron

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
1	MP20	MP20	MP20	MP20	MP20	MP20	MP20	MP20	MP20	MP24	MP24	MP24	MP28	MP28	MP28	MP32	MP32	MP32	MP32	MP32	MP32
2	MP20	MP20	MP20	MP20	MP24	MP24	MP28	MP32	MP32	MP40	MP40	MP40	MP40	MP48	MP48	MP48	MP48	MP48	MP48	MP56	MP56
3	MP20	MP20	MP20	MP24	MP28	MP32	MP40	MP40	MP40	MP48	MP48	MP48	MP56	MP56	MP56	MP90	MP90	MP90	MP90	MP90	MP90
4	MP20	MP20	MP24	MP28	MP32	MP40	MP48	MP48	MP48	MP56	MP56	MP56	MP90	MP90	MP90	MP120	MP120	MP120	MP120	MP120	MP120
5	MP20	MP20	MP28	MP32	MP40	MP48	MP48	MP56	MP56	MP90	MP90	MP90	MP90	MP120	MP120	MP120	MP120	MP120	X	X	X
6	MP20	MP20	MP32	MP40	MP48	MP48	MP56	MP56	MP90	MP90	MP120	MP120	MP120	MP120	X	X	X	X	X	X	X
7	MP20	MP24	MP32	MP48	MP48	MP56	MP90	MP90	MP120	MP120	MP120	X	X	X	X	X	X	X	X	X	X
8	MP20	MP24	MP40	MP48	MP56	MP90	MP90	MP120	MP120	X	X	X	X	X	X	X	X	X	X	X	X
9	MP20	MP28	MP40	MP48	MP56	MP90	MP120	MP120	MP120	X	X	X	X	X	X	X	X	X	X	X	X
10	MP20	MP32	MP40	MP56	MP90	MP90	MP120	MP120	X	X	X	X	X	X	X	X	X	X	X	X	X

NUMBER IN FAMILY

Choose the nearest grains of hardness from top line (plus 3 to 4 grains for each part iron.) See left column for family size to determine suggested model. Chart is based on total house on soft water.

MP Demand Units come with capacity and salt set, only the hardness has to be set. By this MP sizing chart the MP units will regenerate every third or fourth day or even less often.

SIZING CHART FOR FLECK METERED UNITS

Water Hardness -- Grains Per Gallon

Important -- Add 3 Or 4 Grains Hardness For Each Ppm Iron

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
1	2FLM	2FLM	2FLM	2FLM	2FLM	2FLM	2FLM	2FLM	2FLM	3FLM	3FLM	3FLM	3FLM	3FLM	3FLM	4FLM	4FLM	4FLM	4FLM	4FLM
2	2FLM	2FLM	2FLM	2FLM	3FLM	3FLM	3FLM	3FLM	4FLM	4FLM	5FLM	5FLM	5FLM	5FLM	5FLM	5FLM	5FLM	5FLM	6FLM	6FLM
3	2FLM	2FLM	2FLM	3FLM	3FLM	4FLM	4FLM	4FLM	5FLM	5FLM	5FLM	6FLM	6FLM	6FLM	6FLM	9FLM	9FLM	9FLM	9FLM	9FLM
4	2FLM	2FLM	3FLM	3FLM	4FLM	5FLM	5FLM	5FLM	6FLM	6FLM	6FLM	6FLM	9FLM	9FLM	9FLM	12FLM	12FLM	12FLM	12FLM	12FLM
5	2FLM	2FLM	3FLM	4FLM	5FLM	5FLM	5FLM	6FLM	6FLM	9FLM	9FLM	9FLM	9FLM	12FLM	12FLM	12FLM	12FLM	X	X	X
6	2FLM	2FLM	4FLM	4FLM	5FLM	5FLM	6FLM	6FLM	9FLM	12FLM	12FLM	12FLM	12FLM	X	X	X	X	X	X	X
7	2FLM	3FLM	4FLM	5FLM	5FLM	6FLM	9FLM	9FLM	12FLM	12FLM	X	X	X	X	X	X	X	X	X	X
8	2FLM	3FLM	4FLM	5FLM	6FLM	6FLM	9FLM	9FLM	12FLM	12FLM	X	X	X	X	X	X	X	X	X	X
9	2FLM	3FLM	5FLM	5FLM	6FLM	9FLM	12FLM	12FLM	12FLM	X	X	X	X	X	X	X	X	X	X	X
10	2FLM	4FLM	5FLM	6FLM	9FLM	9FLM	12FLM	12FLM	X	X	X	X	X	X	X	X	X	X	X	X

NUMBER IN FAMILY

Recommend Fleck 9000 twin alternating system for large families and very hard water.