HAGUE Quality Water International®

William R. Hague WATERMAX SIGNATURESERIES

MODEL SPECIFICATIONS CHART: CONDITIONERS

Iron (ppm)[5] ferrous-clear water Maximum ferrous iron reduction[6]	0	0	12[5]	0	12[5]	2-12[5,7]	15	5
Minimum pH (standard units)	7	7	7	7	7	7	7	6.3
Tannin (ppm)	0	0	0	0–2	0	0	0	0
Sulfur - SulfurStat (ppm)	0	0	0	0	0	0-5[7]	0	0
Maximum Chlorine (ppm)	0	3	0	0	0	0	0	0
Filtration-nominal rating (microns)	20	25	20	20	20	20	20	20
Media Amount Compartment #1[8]	1.5 lb	2.0 lb	1.5 lb	1.5 lb	Empty	Empty	Empty	Empty
Media Amount Compartment #2[8]	Empty	0.4 cu ft	0.6 cu ft	0.3 cu ft	6 lb	27 lb	0.4 cu ft	0.4 cu ft
Media Amount Compartment #3 Fine Mesh Cation Resin	1.06 cu ft	1.06 cu ft	1.06 cu ft	1.06 cu ft	1.06 cu ft	1.06 cu ft	1.06 cu ft	1.06 cu ft
Backwash Rate @ min. water pressure maximum flow to drain (gpm)	2.4[9]	3[9]	2.4[9]	2.4[9]	5[9]	Empty[9,10]	7[9]	7[9]
Brine Line Flow Control Refill (gpm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Water Pressure (min–max psi)	20–80	20–80	20–80	20–80	20–80	30–80	30–80	30–80
Flow Rate @ 15 psi drop-as tested by Hague (gpm)[11]	11.8	13	10.8	10.5	12.2	12.7	10.6	12.5
Pressure Drop in psi (bar) @ Service Flow Rate of 8 gpm	8.0	6.8	9.8	12	7.8	6.0	10	11
#1 Setting–Salt lb/grains removed	1.1 / 5,700	1.1 / 6,000	1.7 / 9,300	NA	1.1 / 5,700	NA	NA	NA
#2 Setting—Salt lb/grains removed	2.7 / 12,000	2.7 / 12,600	4.2 / 19,700	NA	2.7 / 12,000	NA	NA	2.7 / 11,900
#3 Setting—Salt lb/grains removed	6.2 / 23,400	6.2 / 24,600	9.6 / 38,300	8.5 / 23,100	6.2 / 23,400	6.2 / 24,600	6.2 / 23,100	6.2 / 23,100
#4 Setting—Salt lb/grains removed	9.3 / 30,600	9.3 / 32,100	14.4 / 50,100	10.7 / 30,300	9.3 / 30,600	9.3 / 32,100	9.3 / 30,300	9.3 / 30,300
#1 Salt Setting–Total length of regeneration (Minutes/gal)	25 / 21	25 / 23	36 / 26	NA	25 / 31	NA	NA	NA
#2 Salt Setting–Total length of regeneration (Minutes/gal)	28 / 22	28 / 24	39 / 28	NA	28 / 32	NA	NA	34 / 70
#3 Salt Setting–Total length of regeneration (Minutes/gal)	32 / 24	31 / 27	46 / 31	47 / 31	31 / 35	37 / 78	37 / 78	37 / 78
#4 Salt Setting–Total length of regeneration (Minutes/gal)	36 / 26	36 / 29	53 / 35	64 / 39	36 / 37	41 / 80	41 / 80	41 / 80
Shipping weight (lb)	135	152	168	152	140	167	160	180
Bacteriostatic-KDF® Process Media*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

For All Models:

Use clean white pellet, cube-style, or solar salt.
Drain Line (Minimum I.D.) 1/2-inch (1.3 cm)
Height–inches (cm) 38–1/4 (97)
Salt storage capacity–lb (kg) 200 (90)
Electrical rating: 115V, 60 cycle
Valve Inlet/Outlet–1 inch (Hook ups are 1 ¼-inch)
Water Temperature (Min-Max) 40°–120°F (4°–49°C)
Floor Space–inches (cm) 15 x 30 (38 x 76)
Brine & Rinse total–gpm (L/min) 0.75 (2.5)
Brine Draw–gpm (L/min) 0.25 (0.9)
Rinse–gpm (L/min) 0.5 (1.5)
Iron reduction to 0.3 ppm or less (Not certified by WQA and does not include City Water Units)
*EPA establishment # 95435-OH-1. Not certified by WQA.

1. Models 3MAQ, 3BEQ, 3MXQ, 2AMQ and 2APQ are certified by WQA for barium and radium reduction as verified and substantiated by test data. All other models are not certified by WQA and make no health claims.
2. Municipally supplied chlorinated water only.
3. Calcite will add additional hardness to water before softening.
4. Any hardness over 10 gpg (0.17 grams/liter) will increase the chance of calcium carbonate precipitation. As the hardness increases so does the chance of this precipitation. Must use citric acid to regenerate along with salt.
5. Regeneration every 96 hours is required when iron is present in the raw water supply unless noted otherwise. Use Salt Setting #3 or #4.
6. Iron reduction claims limited to 5 ppm in the state of Wisconsin.
7. Must have a minimum of 2 ppm iron and a minimum of 200 ppm TDS.
8. When adding media in the field, check for proper settings. (See Water Conditioner Specifications, above.)
9. Rate of flow must be verified at the end of 1/2-inch I.D. drain line.
10. This model has no backwash flow control button or retainer. Must have a minimum of 7 gpm @ 30 psi (26.5 L/min @ 2.1 bar) available for proper backwash.
11. For the purposes of plumbing appliance sizing, only the rated service flow rate and corresponding pressure loss may be used. Prolonged operation of a water softener at flow rates exceeding the tested service flow rate of 8 gpm (30.3 L/min) may compromise performance.

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MODEL SPECIFICATIONS CHART: **FILTERS**

Specification	1AAN	1AAE-BWO	1AAR-BWO	1AAS-BWO	1AAF-BWO
Capacity (ppm)	10,000	N/A	N/A	N/A	N/A
Sulfur H2S	5	N/A	N/A	N/A	N/A
Iron (ppm)	20	N/A	N/A	N/A	N/A
Minimum pH	7	N/A	N/A	5[1]	N/A
Media Type	Greensand Plus (N)	Activated Carbon (E)	Filter Ag (R)	Calcite/Corosex (S)	Multi-Grade (F)
Media amount (cu ft)	1.25	1	1.25	1.25	1
Continuous flow rate (gpm)	6	6	6	6	6
Peak flow rate (gpm)	10	10	10	10	12
Backwash rate (gpm)	7	5	5	7	7
Brine line flow control (gpm)	0.5	N/A	N/A	N/A	N/A
Water Pressure (psi)	30–80	30–80	30–80	30–80	30–80
Mode settings	1	1	1	1	1
Backwash #1 (minutes)	5	7	7	7	7
Brine/rinse (minutes)	45	0	0	0	0
Backwash #2 (minutes)	3	0	0	0	0
Salt (lb) 3 lb salt setting = 4 oz KMnO42	3	0	0	0	0
Regenerant Used	4 oz KMnO4	N/A	N/A	N/A	N/A
Flow rate at 25 psi (1.7 bar) drop (gpm)	16.7	21.4	21.5	20.4	19.4
Flow rate at 15 psi (1.0 bar) drop–gpm (gpm)	10.5	15.9	15.9	15.2	15.1
Service flow in (gpm) @ pressure drop3 in (psi)	4.5 @ 4.7	3.6 @ 1.1	4.5 @ 1.5	4.5 @ 1.8	3.6 @ 1.5
	• Reduces iron, iron algae, and bacteria. Reduces manganese. • Reduces up to 5 ppm Hydrogen Sulfide with the presence of 2 ppm iron. • For regeneration frequency, see 1AAN WaterMax® Filter Sizing Formula for this model.	• Reduces bad tastes, odors and will reduce most man-made pollutants. • Backwash every 3 days or as needed. *(Warning: Must not be backwashed for 24 hours after installation.)*	• Reduces suspended matter (turbidity) from water down to the 20–40 micron range. • Backwash every 3 days or as needed.	• Will raise the pH of most low pH water. • The mineral media must be replenished periodically to maintain optimum bed depth for effective correction. • Backwash every 2 days to prevent solidification of mineral media.	• Reduces suspended matter (turbidity) from water down to nominal 20 microns. • Backwash every 3 days or as needed.

1. The 1AAS-BWO will raise the pH of most, but not all low pH water. Some water requires chemical injection using a chemical feed pump.
2. Caution: Follow the instructions on the KMnO4 container.
3. For optimum water quality, do not exceed recommended service flow rate for filter media type

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