

Hellenbrand[®]

HVN Series



Manufacturers of Pre-Engineered and Custom Designed Water Treatment Systems for Commercial and Industrial Applications

Apartment Buildings
Boiler Water Treatment
Car Washes
Commercial Buildings
Condominiums
Factories
Hospitals

Laundries
Mobile Home Parks
Motels and Hotels
Nursing and Rest Homes
Office Buildings
Restaurants
Schools

Hellenbrand, Inc.

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HVN Series Softeners

Pre-Engineered Products

Standard System Designs

- 20" – 72" diameter
- Hardness removal capacities up to 3,000,000 grains per tank.
- Flow rates up to 780 gpm.
- PLC, electronic or electro-mechanical control options.
- Single, twin and multiple tank system designs.

HVN Softener System Designs

System Designs	Single	Twin	Tri-Plex	Four-Plex
Time Clock	X	X	X	X
Variable Reserve	X	X	X	X
Parallel, Individual Meters		X	X	X
Demand Recall		X	X	X
Alternating, One Meter		X		
Alternating, Individual Meters		X	X	X



HVN Series Softeners

Custom Systems

Equipment Options:

- Finish painted, epoxy lined and primed, epoxy exterior or galvanized steel vessels.
- Non-Code or ASME code vessels.
- 100 psig w.p., 125 psig w.p. or 150 psig w.p.
- Cast iron or noryl® Y-Pattern diaphragm or cast iron butterfly valves.
- Galvanized, PVC, copper, stainless steel, or black carbon steel-face piping.
- Various metering design options.
- Skid mounting (full interconnecting piping and pre-wired) on multiple tank systems.
- A wide variety of operational modes and control options.
- Brine reclaim.
- Reclaim of regeneration water for re-use elsewhere.

Job Site Assistance and/or Supervision Options:

- Oversee media loading.
- Oversee installation.
- Start-up.
- Owner training.



HVN Softener Model Specifications Steel Tank - Diaphragm Valve Nest – 150,000 - 900,000 Grain Units

MODEL NO.	EXCHANGE CAPACITY		QTY	RECOMMENDED		SERVICE FLOW		FLOW	FLOW	MAX FLOW	PSID	MINERAL	BWF	BRINE MAKER DATA			SIZE
	HVN-	MAXIMUM		MINIMUM	CONTINUOUS		PEAK		GPM	GPM	GPM @	MAX RATED		TANK SIZE	RATE	SALT	
	grains	grains	cu.ft.	GPM	PSI-D	GPM	PSI-D	@15 PSID	@25 PSID	RATED CAP	FLOW	inches	gpm	lbs	max	min	inches
150-1	150,000	100,000	5	22	12	32	23	25	33	30	21	20 x 54	10.0	450	75	30	24 x 40
150-1 1/4	150,000	100,000	5	30	9	50	19	42	59	30	9	20 x 54	10.0	450	75	30	24 x 40
150-1 1/2	150,000	100,000	5	30	7	50	16	48	67	30	7	20 x 54	10.0	450	75	30	24 x 40
150-2	150,000	100,000	5	30	5	50	11	64	91	30	5	20 x 54	10.0	450	75	30	24 x 40
210-1 1/4	210,000	140,000	7	37	10	56	20	47	64	42	13	24 x 54	15.0	610	105	42	24 x 54
210-1 1/2	210,000	140,000	7	42	10	70	22	55	76	42	10	24 x 54	15.0	610	105	42	24 x 54
210-2	210,000	140,000	7	42	6	70	12	81	114	42	6	24 x 54	15.0	610	105	42	24 x 54
210-2 1/2	210,000	140,000	7	42	5	70	10	95	135	42	5	24 x 54	15.0	610	105	42	24 x 54
300-1 1/2	300,000	200,000	10	51	11	76	22	61	82	60	15	30 x 54	20.0	850	150	60	30 x 48
300-2	300,000	200,000	10	60	7	100	15	100	138	60	7	30 x 54	20.0	850	150	60	30 x 48
300-2 1/2	300,000	200,000	10	60	5	100	10	128	179	60	5	30 x 54	20.0	850	150	60	30 x 48
300-3	300,000	200,000	10	60	4	100	8	150	213	60	4	30 x 54	20.0	850	150	60	30 x 48
450-1 1/2	450,000	300,000	15	51	12	76	23	58	79	90	31	30 x 60	20.0	950	225	90	30 x 60
450-2	450,000	300,000	15	84	13	126	24	92	131	90	14	30 x 60	20.0	950	225	90	30 x 60
450-2 1/2	450,000	300,000	15	90	11	150	22	116	167	90	11	30 x 60	20.0	950	225	90	30 x 60
450-3	450,000	300,000	15	90	9	150	17	134	196	90	9	30 x 60	20.0	950	225	90	30 x 60
600-1 1/2	600,000	400,000	20	51	11	76	22	61	83	120	47	36 x 60	30.0	1250	300	120	39 x 48
600-2	600,000	400,000	20	84	11	126	20	104	144	120	19	36 x 60	30.0	1250	300	120	39 x 48
600-2 1/2	600,000	400,000	20	119	12	179	22	139	197	120	12	36 x 60	30.0	1250	300	120	39 x 48
600-3	600,000	400,000	20	120	9	200	18	172	249	120	9	36 x 60	30.0	1250	300	120	39 x 48
750-2	750,000	500,000	25	84	12	126	21	100	141	150	28	36 x 72	30.0	1630	375	150	39 x 60
750-2 1/2	750,000	500,000	25	119	13	179	23	132	190	150	18	36 x 72	30.0	1630	375	150	39 x 60
750-3	750,000	500,000	25	150	14	250	27	161	237	150	14	36 x 72	30.0	1630	375	150	39 x 60
900-2	900,000	600,000	30	84	10	126	19	110	151	180	33	42 x 60	45.0	1840	450	180	42 x 60
900-2 1/2	900,000	600,000	30	119	10	179	19	153	214	180	19	42 x 60	45.0	1840	450	180	42 x 60
900-3	900,000	600,000	30	180	13	277	24	199	286	180	13	42 x 60	45.0	1840	450	180	42 x 60

HVN Softener Model Specifications Steel Tank - Diaphragm Valve Nest – 1.2 - 3 Million Grain Units

MODEL NO.	EXCHANGE CAPACITY		QUANTITY	SERVICE FLOW RATES				MINERAL	IN/OUT	BWF	BRINE MAKER DATA				SHIPPING
	HVN-	MAXIMUM		MINIMUM	OF RESIN	CONTINUOUS	PEAK				TANK SIZE	PIPE SIZE	RATE	SALT	
AUTOMATIC	grains	grains	cu.ft.	GPM	PSI-D	GPM	PSI-D	inches	inches	gpm	lbs	max	min	inches	lbs
1200-2 1/2	1,200,000	800,000	40	150	15	200	25	48 X 72	2-1/2"	60	2200	600	240	50 X 60	5850
1200-3	1,200,000	800,000	40	215	15	303	25	48 X 72	3"	60	2200	600	240	50 X 60	5900
1200-4	1,200,000	800,000	40	310	15	445	25	48 X 72	4"	60	2200	600	240	50 X 60	6000
1500-2 1/2	1,500,000	1,000,000	50	170	15	220	25	54 X 72	2-1/2"	70	4000	700	300	60 X 64	7200
1500-3	1,500,000	1,000,000	50	225	15	307	25	54 X 72	3"	70	4000	700	300	60 X 64	7050
1500-4	1,500,000	1,000,000	50	340	15	495	25	54 X 72	4"	70	4000	700	300	60 X 64	7300
1950-2 1/2	1,950,000	1,300,000	65	170	14	220	24	60 X 72	2-1/2"	90	4800	975	390	72 X 54	8450
1950-3	1,950,000	1,300,000	65	235	15	325	25	60 X 72	3"	90	4800	975	390	72 X 54	8500
1950-4	1,950,000	1,300,000	65	445	15	650	25	60 X 72	4"	90	4800	975	390	72 X 54	8600
2400-2 1/2	2,400,000	1,600,000	80	170	13	220	23	66 X 72	2-1/2"	110	5800	1200	480	72 X 64	10450
2400-3	2,400,000	1,600,000	80	245	15	340	25	66 X 72	3"	110	5800	1200	480	72 X 64	10500
2400-4	2,400,000	1,600,000	80	480	15	690	25	66 X 72	4"	110	5800	1200	480	72 X 64	10600
2400-6	2,400,000	1,600,000	80	515	15	750	25	66 X 72	6"	110	5800	1200	480	72 X 64	10900
3000-2 1/2	3,000,000	2,000,000	100	170	12	220	22	72 X 72	2-1/2"	130	7500	1500	600	90 X 54	12850
3000-3	3,000,000	2,000,000	100	255	15	355	25	72 X 72	3"	130	7500	1500	600	90 X 54	12900
3000-4	3,000,000	2,000,000	100	500	15	720	25	72 X 72	4"	130	7500	1500	600	90 X 54	13000
3000-6	3,000,000	2,000,000	100	540	15	780	25	72 X 72	6"	130	7500	1500	600	90 X 54	13300

Product improvement designs are subject to change without notice.

Refer to Hellenbrand Bulletin 2050 "Flow Rates and Soft Water Quality (Hardness Leakage) if your application requires that levels of hardness leakage do not exceed "x".



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