H200-2” & H300-3” SERIES
WATER CONDITIONERS

For Commercial & 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®

The H200 & H300 is powerful, easy to use and packed with benefits

- Solid state microprocessor can control from one to four units allowing system add on capabilities as your needs grow.
- Regeneration may be initiated with a time clock, meter delayed or meter immediate.
- Up to nine fully programmable cycle times, that can be moved around and repeated in various orders for your particular application needs.
- Soft water brine refill reduces build up in brine tank from hardness and iron present in the raw water supply.
- Easy to use user screen shows Time of Day, Current Flow Rate, Total Gallons Processed and Volume/Days until Regeneration.
- Solid state microprocessor has a removable POD display allowing you to remote mount the POD on top-mounted systems for easy access.
- Economical built-in electronic meter on H200 Series requires no extra piping.
- H200 & H300 Standard System Design Options
  - Single Tank Systems
  - Twin, Triplex and Fourplex Alternating
  - Twin, Triplex and Fourplex Demand Recall
- Lead free brass body with NSF Approved Food Grade Electro-Deposited Epoxy Coating to protect internally and externally against corrosion.
- Corrosion free Noryl® backplate.
- Nema 3 Enclosure
- Optional Calendar Day Override from 1-28 days.
- 24-Volt output AC adapter is safe, comes with a 15-foot cord for easy installation.
- Reliable and proven DC drive from our family of H-Series Systems.
- Capacitor back-up with up to 24-hour power carry over.
- Optional System Control Board enables the addition of a third and fourth unit to be implemented into the system design. In addition the system board can be utilized for demand recall or to operate external devices like chemical feed pumps, booster pumps, and to lock out an R.O. system. The available two sets of normally open & normally closed auxiliary outputs can be activated after the start of a regeneration, after the start of a specified regeneration cycle, on a set number of gallons during service, on a set number of gallons during regeneration, on a set number of gallons during service & regeneration mode, while in standyby & regeneration mode with a multi-tank system, or if a unit would be in an Error Mode.
- Motorized Alternating Valve "MAV" Provides:
  - Twin Alternating
  - Provides for no Raw Water By-Pass during regeneration
  - Provides choices of treated or non-treated water for regeneration.
  - Separate source regeneration.

Removable POD Display

Motorized Alternating Valve "MAV"

H200 Physical Specifications

Mineral tank sizes shown are with polyglass tanks.

MODEL	PIPE SIZE (INCHES)	MINERAL TANK (INCHES)	RECOMMENDED BRINE TANK SIZE (INCHES)	RECOMMENDED BRINE TANK SALT STORAGE (LBS)	APPROXIMATE SHIPPING WEIGHT-TOP MOUNT SINGLE	APPROXIMATE SHIPPING WEIGHT-TOP MOUNT TWIN
H200-240	2	24 X 72	24 X 50	715	674	1325
H200-300-24	2	24 X 72	24 X 50	715	776	1529
H200-300-30	2	30 X 72	24 X 50	1,110	1059	2064
H200-450-30	2	30 X 72	30 X 50	2,030	1333	2593
H200-450-36	2	36 X 72	39 X 48	2,030	1393	2653
H200-600	2	36 X 72	39 X 48	1,640	1751	3426
H200-750	2	42 X 72	42 X 60	2,580	2535	4954
H200-900	2	42 X 72	50 X 60	4,130	2922	5750
H200-1200	2	48 X 72	50 X 60	4,130	3600	6900

H200 Capacity Ratings

MODEL	RESIN CU.FT.	RATED CAPACITY LOW SALT GRAINS/LBS	RATED CAPACITY MEDIUM SALT GRAINS/LBS	RATED CAPACITY HIGH SALT GRAINS/LBS	FLOW RATES (gpm) 15 PSI	FLOW RATES (gpm) 25 PSI	BKW GPM
H200-240	8	152,000/48	224,000/80	256,000/120	77	100	12
H200-300-24	10	190,000/60	280,000/100	320,000/150	75	97	12
H200-300-30	10	190,000/60	280,000/100	320,000/150	92	120	20
H200-450-30	15	285,000/90	420,000/150	480,000/225	88	113	20
H200-450-36	15	285,000/90	420,000/150	480,000/225	100	130	30
H200-600	20	380,000/120	560,000/200	640,000/300	97	126	30
H200-750	25	475,000/150	700,000/250	800,000/375	106	137	40
H200-900	30	570,000/180	840,000/300	960,000/450	104	130	40
H200-1200	40	760,000/240	1,120,000/400	1,280,000/600	105	135	50

1. Steel tank design configurations are also available up through 60” tank diameters. Consult factory for details.

OPERATING CONDITIONS

1. Water Pressure 30 - 100 psi.
2. Water temperature is not to exceed 110°F and the unit cannot be subject to freezing conditions. Consult factory for higher water temperature applications.
3. Limit of 2 ppm of Ferrous Iron. Add 3 grains per gallon of hardness for each ppm of iron present.
4. Flex connectors and vacuum breakers are required when using the PolyGlass Composite mineral tanks.
5. Backwash flow rates are calculated at 4 gpm per sq. ft. of bed area and rounded off based on 50ºF water temperature.
6. 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”.

H200 Series Top Mount Dimensions-Fiberglass Tanks

MODEL	SYSTEM HEIGHT	OUTLET HEIGHTS	INLET HEIGHTS	DRAIN HEIGHTS	MINERAL TANK	BRINE TANK
H200-300	89.4	86.7	83.1	85.4	24x72	24x50
H200-300-30	86.2	83.5	79.9	82.2	30x72	24x50
H200-450	86.2	83.5	79.9	82.2	30x72	30x50
H200-600	87.2	84.5	80.9	83.2	36x72	39x48
H200-750	104.5	101.8	98.2	100.5	42x72	42x60
H200-900	104.5	101.8	98.2	100.5	42x72	50x60
H200-1200	104.5	101.8	98.2	100.5	48x72	50x60

H200 Series Side Mount Dimensions-Fiberglass Tanks

MODEL	SYSTEM HEIGHT	OUTLET HEIGHTS	INLET HEIGHTS	DRAIN HEIGHTS	MINERAL TANK	BRINE TANK
H200-300-SM	95.6	54.6	51	53.3	24x72	24x50
H200-300-30-SM	94.6	54.6	51	53.3	30x72	24x50
H200-450-SM	94.6	54.6	51	53.3	30x72	30x50
H200-600-SM	95.3	54.6	51	53.3	36x72	39x48
H200-750-SM	100.9	54.6	51	53.3	42x72	42x60
H200-900-SM	100.9	54.6	51	53.3	42x72	50x60
H200-1200-SM	100.9	54.6	51	53.3	48x72	50x60

All dimensions ±2” and are subject to change without notice. Use as reference only. Call factory for optional tank & dimensional configurations.

See website www.hellenbrand.com for more detailed information and complete brochure. Product Improvement designs are subject to change without notice.

H300 Physical Specifications

MODEL	PIPE SIZE (INCHES)	MINERAL TANK (INCHES)	BRINE TANK		APPROXIMATE SHIPPING WEIGHT	
			SIZE (INCHES)	SALT STORAGE (LBS)	SINGLE	TWIN
H300-300	3	24x72	30x50	1110	800	1600
H300-300-30	3	30x72	30x50	1110	1070	2070
H300-450	3	30x72	39x48	2030	1340	2600
H300-600	3	36x72	39x48	1640	1760	3440
H300-750	3	42x72	42x60	2580	2540	4960
H300-900	3	42x72	50x60	4130	2930	5760
H300-1200	3	48x72	50x60	4130	3600	6900
H300-1500	3	54x72*	60x64	4000	N/A	N/A
H300-1950	3	60x72*	72x45	4800	N/A	N/A
H300-2100	3	63x86	72x54	4800	N/A	N/A

Mineral tank sizes shown are with polyglass tanks. (*denotes steel tanks)

H300 Capacity Ratings

MODEL	RESIN CU.FT.	RATED CAPACITY			FLOW RATES (gpm)		BKW GPM
		LOW SALT GRAINS/LBS	MEDIUM SALT GRAINS/LBS	HIGH SALT GRAINS/LBS	15 PSI	25 PSI	
H300-300	10	190,000/60	280,000/100	320,000/150	98	126	12
H300-300-30	10	190,000/60	280,000/100	320,000/150	158	205	20
H300-450	15	285,000/90	420,000/150	480,000/225	144	186	20
H300-600	20	380,000/120	560,000/200	640,000/300	172	222	30
H300-750	25	475,000/150	700,000/250	800,000/375	190	244	40
H300-900	30	570,000/180	840,000/300	960,000/450	180	238	40
H300-1200	40	760,000/240	1,120,000/400	1,280,000/600	194	251	50
H300-1500	50	950,000/300	1,400,000/500	1,600,000/750	200	260	90
H300-1950	65	1,235,000/390	1,820,000/650	2,080,000/975	205	260	110
H300-2100	70	1,330,000/420	1,960,000/700	2,240,000/1,050	210	270	110

All sizes are also available with steel tanks.

OPERATING CONDITIONS

1. Water Pressure 30 - 100 psi.
2. Water temperature is not to exceed 110°F & the unit cannot be subject to freezing conditions. Consult factory for higher water temperature applications.
3. Limit of 2 ppm of Ferrous Iron. Add 3 grains per gallon of hardness for each ppm of iron present.
4. Flex connectors and vacuum breakers are required when using the PolyGlass Composite mineral tanks.
5. Backwash flow rates are calculated at 4 gpm per sq. ft. of bed area and rounded off based on 50ºF water temperature.
6. 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”.

H300 Series Top Mount Dimensions-Fiberglass Tanks

MODEL	SYSTEM HEIGHT	OUTLET HEIGHTS	INLET HEIGHTS	DRAIN HEIGHTS	MINERAL TANK	BRINE TANK
H300-300	99.3	86.6	86.6	90.3	24x72	24x50
H300-300-30	96.1	83.4	83.4	87.1	30x72	30x50
H300-450	96.1	83.4	83.4	87.1	30x72	39x48
H300-600	97.1	84.4	84.4	99.8	36x72	39x48
H300-750	114.4	101.7	101.7	105.4	42x72	42x60
H300-900	114.4	101.7	101.7	105.4	48x72	50x60
H300-1200	114.4	101.7	101.7	105.4	48x72	50x60
H300-2100	118.5	105.8	105.8	109.5	63x86	72x54

Note: System height includes DLFC installed on the valve & 2" elbow. If DLFC is installed on the drain line, 4" can be taken off of the total system height.

H300 Series Side Mount Dimensions-Fiberglass Tanks

MODEL	SYSTEM HEIGHT	OUTLET HEIGHTS	INLET HEIGHTS	DRAIN HEIGHTS	MINERAL TANK	BRINE TANK
H300-300-SM	95.6	51	51	58	24x72	30x50
H300-300-30-SM	94.6	51	51	58	30x72	30x50
H300-450-SM	94.6	51	51	58	30x72	39x48
H300-600-SM	95.3	51	51	58	36x72	39x48
H300-750-SM	100.9	51	51	58	42x72	42x60
H300-900-SM	100.9	51	51	58	42x72	50x60
H300-1200-SM	100.9	51	51	58	48x72	50x60
H300-2100-SM	105.3	51	51	58	63x86	72x54

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Product Improvement designs are subject to change without notice.

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