

IMHC-Series

Impression Series® Heavy Commercial Water Conditioners

Water-Right's Impression Series® Heavy Commercial Water Conditioners are engineered to be highly effective in commercial applications. The IMHC-Series equipment offers capacities between 60,000 and 600,000 grains and flow rates to 119 GPM. This series also provides excellent iron, manganese and pH correction. The IMHC-Series features a microprocessor-based controller and meter. LCD display simplifies system programming and operation.

Features

- Flow rates up to 119 GPM per unit
- Capacity up to 600K grains
- Steel or fiberglass construction

Options

- Multi-tank configurations
- Electronic meter/time clock configurations available
- Sanitizing feature
- No raw water bypass
- Choice of media for hardness, iron, manganese, and pH correction
- Larger brine tanks, safety floats and salt grids available
- ASME approved tanks

Ideal for:

- Car Washes
- Nursing Homes
- Cooling Towers
- Hotels/Motels
- Apartments
- Light Industrial Applications
- Schools
- Boiler Feeds



Optional electronic package allows for various regeneration sequences.

CONTROL VALVE

The IMHC-Series valve achieves optimum performance using a teflon-coated, lead-free, solid brass piston and corrosion-resistant spacers and seals. This piston design offers long-term operation with minimal maintenance. Tight tolerances and precision machining optimize piston performance, even in challenging environments.

REGENERATION CONTROL

The electronic meter-initiated controller is fully adjustable and easy to operate. The IMHC-Series controller operates all steps of regeneration for single or multiple configurations. Its unique modular design allows for easy troubleshooting, maintenance and service.

MEDIA TANK

Choice of fiberglass or steel media tanks. Non-corrosive fiberglass tanks are rated for 150 psi operating pressures and environments up to 120° F. Standard steel tanks are epoxy-lined and rated for 100 psi operating pressures. Steel tanks are primed and painted for a protective finish. All tanks are NSF approved.

SOFTENING MEDIA

All Water-Right water conditioners are offered with three different media options capable of handling all softening needs, from the simple to the most challenging water conditions. The media options include:

- **Resin** — a high capacity sulfonated polystyrene media capable of handling common hard water conditions.
- **Crystal-Right CR100™** — silica crystal media highly effective in reducing hardness, iron, manganese and raising pH levels of slightly acidic water.
- **Crystal-Right CR200™** — silica crystal media highly effective in reducing hardness, iron and manganese in a single process.

BRINE TANK

This durable brine tank is made of high-density polyethylene to resist corrosion and puncture. Larger tanks are available. Safety floats standard in all brine tanks. Salt grids are optional.

CHLORINE REGENERATION

Eliminate iron and sulfur bacteria within the media bed with an automated, in-line chlorine generator or chemical feed pump. Available only on Crystal-Right media systems.

System Specifications

	Model Number	Type of Media	Pipe Size	Maximum Capacity/ Lbs of Salt	Medium Capacity/ Lbs of Salt	Minimum Capacity/ Lbs of Salt	Iron & Mang. Capacity ¹	pH Capacity ²	Flow Rate ³		Mineral Quantity (Cu. Ft.)	Backwash Rate ⁴ (GPM)
									Continuous @ 15 PSI Pressure Drop	Peak @ 25 PSI Pressure Drop		
IMHCR	1465	Resin	2"	90,000/45	78,000/27	60,000/18	1	7	39	50	3	5
	1665	Resin	2"	120,000/60	104,000/36	80,000/24	1	7	47	60	4	6
	1865	Resin	2"	150,000/75	130,000/45	100,000/30	1	7	53	69	5	8
	2162	Resin	2"	210,000/105	182,000/63	140,000/42	1	7	66	85	7	12
	2472	Resin	2"	300,000/150	260,000/90	200,000/60	1	7	73	94	10	15
	3072	Resin	2"	450,000/225	390,000/135	300,000/90	1	7	84	109	15	25
IMHCT	1465	CR-100	2"	52,000/30	47,000/22	40,000/13	10	6	39	50	3.5	9
	1665	CR-100	2"	67,000/39	60,000/29	51,000/17	10	6	47	60	4.5	12
	1865	CR-100	2"	81,000/47	74,000/35	62,000/20	10	6	53	69	5.5	15
	2162	CR-100	2"	104,000/60	94,000/45	79,000/26	10	6	66	85	7	20
	2472	CR-100	2"	148,000/85	134,000/64	113,000/37	10	6	73	94	10	25
	3072	CR-100	2"	222,000/128	201,000/96	170,000/56	10	6	84	109	15	40
IMHC2	1465	CR-200	2"	84,000/37	68,000/22	40,000/13	10	7	39	50	3.5	7
	1665	CR-200	2"	108,000/48	87,000/29	51,000/17	10	7	47	60	4.5	9
	1865	CR-200	2"	132,000/58	106,000/35	62,000/20	10	7	53	69	5.5	12
	2162	CR-200	2"	168,000/74	135,000/45	79,000/26	10	7	66	85	7	15
	2472	CR-200	2"	240,000/106	193,000/64	113,000/37	10	7	73	94	10	20
	3072	CR-200	2"	360,000/159	290,000/96	170,000/56	10	7	84	109	15	35
	3672	CR-200	2"	480,000/212	386,000/128	226,000/74	10	7	93	119	20	50

Notes: Resin capacities based on industry standards. CR-100 and CR-200 interpolated from the ASC Series Water Conditioners.
 1 On waters that are pre-chlorinated or where other pre-oxidation occurs, iron or manganese can precipitate too small to be filtered.
 2 The pH of the influent water must be at least the specified number above. pH correction is dependent upon flow rate.
 3 Quality of water may vary depending upon flow rate and water conditions. Please consult factory.
 4 Backwash rates may change depending on temperature of water.

System Dimensions and Weight

	Model Number	Tank Sizes		Installed Dimensions ¹			Shipping Weight ²
		Softener	Brine Tank	Length	Width	Height	
IMHC	1465	14" x 65"	18" x 40"	34"	19"	78"	310 lbs
	1665	16" x 65"	24" x 41"	41"	25"	78"	385 lbs
	1865	18" x 65"	24" x 41"	43"	25"	79"	510 lbs
	2162	21" x 62"	24" x 50"	47"	25"	79"	670 lbs
	2472	24" x 72"	30" x 50"	56"	32"	88"	930 lbs
	3072	30" x 72"	39" x 48"	70"	40"	105"	1370 lbs
	3672	36" x 72"	39" x 48"	77"	40"	106"	1500 lbs

¹ Height and width based on fiberglass tanks and top mount control valve.
 Please consult with factory for dimensions with steel tanks or side mounted controllers.
² Shipping weight is dry.



Your local water treatment professional: