

# 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 <sup>1</sup>	pH Capacity <sup>2</sup>	Flow Rate <sup>3</sup>		Mineral Quantity (Cu. Ft.)	Backwash Rate <sup>4</sup> (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 <sup>1</sup>			Shipping Weight <sup>2</sup>
		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

<sup>1</sup> 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.  
<sup>2</sup> Shipping weight is dry.



Your local water treatment professional: