HEAVY METAL REMOVAL SYSTEMS

The Heavy Metal Removal system (HMR) is a compact skid mounted treatment system that is designed for removing dissolved metals from process waste water. The HMR automatically precipitates and filters dissolved metals before discharging the treated waste water to the sewer. Discharged metals in solution will be below discharge limits. Removed metals are bound up in a dry cake for disposal.

Specifications:
- Treatment Capacity
  - pH range 1—13
  - 75 to 500 gallon batch models available
  - Skid mounted design, ready to install
  - Indoor installation
  - Factory piped, wired and tested before shipment

Standard Features
- UL Listed control panel
- Micro PLC based batch control system
- NEMA 4 powder coated steel control panel
- Fabricated polypropylene tanks and skid
- 120 VAC 1 Phase, 230/460 VAC 3 Phase
- Dry contacts for common alarm and influent permissive signals
- Seismic tie down brackets

Optional Features
- PLC with touch screen batch control system
- Acidic waste only systems
- Caustic waste only systems
- Heat exchanger systems available for concentrated waste that generates excessive heat during treatment
- Filter press models come with filter press discharge pump lift station and optional final pH adjustment
- Double containment for reaction tanks (includes leak detection)
- Leak switch for chemical tank double containment (with drain valve)
- Discharge full line magnetic flow meter with totalizer
- Inkjet strip chart recorder for discharge pH and or flow
- Digital data logger for discharge pH and or flow
- Front USB port for CompactFlash™ cards up to 2 Gigabytes

Specifications subject to change without notice
### Ordering Information

<table>
<thead>
<tr>
<th>HMR</th>
<th>Holding Tank Size (Choose One)</th>
<th>Reaction Tank Size (Choose One)</th>
<th>Filtration Options (Choose One)</th>
<th>Chemical Storage (Choose One)</th>
<th>Control Option</th>
<th>Power Requirements (Choose One)</th>
<th>Options (Choose Any)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-150 150 Gallons</td>
<td>-75 75 Gallons</td>
<td>-FB Filter Bags (Qty 2, 75 gallon model only)</td>
<td>-T Chemical Day Tank(s) 55 Gallon Capacity</td>
<td>-P PLC Based Control Panel</td>
<td>-1 115 VAC 1 pH 60 Hz</td>
<td>-DC Double Containment for Reaction Tanks, includes Leak Switch and Drain Valve</td>
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<tr>
<td></td>
<td>-300 300 Gallons</td>
<td>-150 150 Gallons</td>
<td>-3FP Filter Press - 3 Cubic Foot</td>
<td>-M Metering Pump Shelf (Customer to Provide Drums or Totes)</td>
<td></td>
<td>-2 230 VAC 3 pH 60 Hz</td>
<td>-HX Heat exchanger for concentrated waste treatment</td>
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<tr>
<td></td>
<td>-750 750 Gallons</td>
<td>-300 300 Gallons</td>
<td>-6FP Filter Press - 6 Cubic Foot</td>
<td></td>
<td></td>
<td>-3 460 VAC 3 pH 60 Hz</td>
<td>-LK Leak Switch for Chemical Tanks, with Drain Valve</td>
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<tr>
<td></td>
<td>-1000 1000 Gallons</td>
<td>-500 500 Gallons</td>
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<td></td>
<td></td>
<td></td>
<td>-FL Discharge Line Flow Meter</td>
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<td>-CR Chart Recorder (pH), Includes Flow if the “FL” Option is Selected</td>
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<td>-DL Data Logger (pH), Includes Flow if the “FL” Option is Selected</td>
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</tbody>
</table>

### Example Part Numbers

- HMR -150 -75 -FB -T -P -1
- HMR -750 -300 -6FP -M -P -3 -DC -LK -OC-FL-CR-DL