

HEAVY METAL REMOVAL SYSTEMS



Shown: HMR-150-75-3FP-M-P-1
150 gallon equalization tank, 75 gallon reaction tank, 3 ft³ filter press, metering pump shelf, 120 VAC PLC based control panel.



Shown: HMR-100-FB-M-P-1-HX
100 gallon reaction tank with heat exchanger, 2 filter bags, metering pump shelf, 120 VAC PLC based control panel.



Shown: HMR-1550-500-6FP-M-P-2
1550 gallon equalization tank, 500 gallon reaction tank, 6 ft³ filter press, metering pump shelf, 208 VAC PLC based control panel.

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

ORDERING INFORMATION

HMR

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

