

## HEAVY METAL REMOVAL SYSTEMS (HMR)



Shown: HMR-NA-75-3FP-M-IM-1-N4-FL  
75 gallon reaction tank with metering pump shelves.

The Heavy Metal Removal system is a fully automated compact skid mounted treatment system that removes dissolved metals from process wastewater. The HMR automatically precipitates and filters dissolved metals before discharging the treated wastewater to the sewer. Discharged metals in solution will be below discharge limits. Removed metals are filtered in a dry cake for disposal.

Wastewater sample required for lab testing to properly size system. Contact sales for each specific application

### Specifications:

- pH range 1 - 13
- 75 to 500 gallon batch models available
- Inlet temperatures up to 140°F
- Skid mounted design, ready to install
- Factory-piped, wired and tested before shipment
- Indoor installation

### Standard Features

- UL Listed control panel
- NEMA 4 powder coated steel control panel
- PLC-based control system with color touchscreen HMI
- Fabricated polypropylene skid
- Polypropylene or Polyethylene cone bottom tanks
- Chemical feed metering pumps
- Filter press for solids dewatering with air operated feed pump
- Alarm integration to Building Management System
- Seismic tie-down brackets

### Optional Features

- Epoxy coated metal skids
- Heat exchanger systems available for concentrated wastes that generate excessive heat during treatment
- Extension legs and raised platforms for filter presses
- Post treatment pH adjustment
- Double containment for skid (includes leak detection)
- Discharge flow meter with totalizer
- Digital data logger for effluent pH and/or flow



Shown: HMR-NA-500-6FP-M-AB-4-N4-FP  
500 gallon reaction tank with a 6 ft<sup>3</sup> filter press, metering pump shelves, and post treatment pH adjustment.

ORDERING INFORMATION									
HMR	Heavy Metal Removal								
	<b>Holding Tank Volume (Choose One)</b>								
	-NA	No Holding Tank							
	-150	150 Gallons							
	-500	500 Gallons							
	-750	750 Gallons							
	-1000	1000 Gallons							
	<b>Reaction Tank Volume (Choose One)</b>								
	-75	75 Gallons							
	-250	250 Gallons							
	-350	350 Gallons							
	-500	500 Gallons							
	<b>Filtration Options (Choose One or Sizing Will be Specified After Sample Analysis)</b>								
	-3FP	Filter Press - 3 Cubic Foot							
	-6FP	Filter Press - 6 Cubic Foot							
	-10FP	Filter Press - 10 Cubic Foot							
	<b>Chemical Storage (Choose One)</b>								
	-T	Chemical Day Tank(s) 55 Gallon Capacity							
	-M	Metering Pump Shelf (Customer to Provide Drums or Totes)							
	<b>Control Option (Choose One)</b>								
	-IM	IDEC PLC with 7" Maple HMI							
	-AM	Allen-Bradley MicroLogix PLC with 7" Maple HMI							
	-AB	Allen-Bradley MicroLogix PLC with 10" PanelView Plus HMI							
	-AX	Allen-Bradley CompactLogix PLC with 10" PanelView Plus HMI							
	<b>Power Requirements (Choose One)</b>								
	-1	115 VAC / 1 / 60 Hz							
	-2A	208 VAC / 1 / 60 Hz							
	-2B	230 VAC / 1 / 60 Hz							
	-3A	208 VAC / 3 / 60 Hz							
	-3B	230 VAC / 3 / 60 Hz							
	-4	460 VAC / 3 / 60 Hz							
	<b>Enclosure Rating (Choose One)</b>								
	-N4	NEMA4 – Powder Coated Carbon Steel							
	-N4XS	NEMA4X – 304 Stainless Steel							
	<b>Options (Choose Any)</b>								
	-DC	Double Containment for Reaction Tanks; Includes Leak Switch and Drain Valve							
	-HX	Heat Exchanger For Concentrated Waste Treatment							
	-FP	Final pH Adjustment Pump Lift Station							
	-FL	Discharge Line Flow Meter							
	-DL	Data Logger (pH), Includes Flow W/ "FL" Option							
<b>Example Part Number</b>									
HMR	-150	-75	-3FP	-T	-IM	-1	-N4	-DC	HMR-150-75-3FP-T-IM-1-N4-DC
HMR	-750	-350	-6FP	-M	-AB	-4	-N4XS	-FL	HMR-750-350-6FP-M-AB-4-N4XS-FL

