



Lead Removal System

The Lead Removal System allows you to meet the legal requirements for the removal of all contaminants including lead, nickel and cadmium in your lab's reclaim water. The unit filters out contaminants and returns clean, lead-free water for reuse in deblockers or to be safely poured down the drain. It offers a unique multiple filter system that will process the contaminated water at a rate of one gallon per minute.* An ATS lead sorbent filter does not leach lead even when subjected to the Federal TCLP leach procedure.

Features & Benefits

- Fully enclosed pump motor with glass-filled Celcon body, volute and impeller.
- Pump's stainless steel shaft is controlled by GFCI 115 Volt power switch for safety.
- Includes 60 minute timer.
- 7-gallon, stainless steel tank with splash guard cover.
- No chemicals required.



FRONT VIEW



BACK VIEW

Specifications:

Dimensions:	38" high x 22" wide x 20" deep
Tank Capacity:	7-gallon
Housing:	Stainless Steel

Lead Removal System Independent Test Results

Reclaim Water After Processing 2300 Lenses*	Before Lead Removal System	1st 4 Purifiers	After ATS	Federal Discharge Standards**
Cadmium	344 PPM***	1.0	0.05	0.30
Lead	181	1.1	≤0.1	0.25
Nickel	≤0.2	≤0.2	0.2	2.00

+ As the filters fill with contaminants, the processing volume will drop

* Tests were performed by an independent laboratory. Results available upon request.

** Federal municipal water discharge criteria is established as a guideline for municipalities. Municipal sewer discharge criteria may differ from federal standards. Check with your local sewer district for the most current information.

*** Measurements are in parts per million.





Lead Removal System Filters

The Lead Removal Systems (LRS) is a self-contained ready to use system right out of the box. Simply unpack the system and plug it into a 110 outlet. Two hinged lids are located on each side of the system which is attached to a seven (7) gallon stainless steel tank. Three filters are located in front of the system while the remaining two filters are in the rear of the system. The system is mounted on heavy-duty casters with a Red OSHA approved on/off switch located on front of the system. The drain valve located on the bottom of the stainless steel tank can be used as needed to remove any heavy concentrated sludge to prevent oxidation of your alloy.

Pour the water from the reclaim tank into the stainless steel tank. The water must be at room temperature. Simply turn on the system, and after one pass through all five (5) filters, the water is suitable for sewer discharge.

The flow through the filters at first will be approximately 1-2 gallons per minute. This will be reduced shortly after processing, which is normal. The life of the filter will depend on the cleanliness of your reclaim tank water and your alloy. Filters number one (1) and two (2) will clog up faster than filters three (3) and four (4). Filter number five (5) will last the longest and in fact is an insurance filter to ensure the water is suitable for sewer discharge.

Changing and replacing filters

To replace any of the five filters, simply turn off the power to the system and turn the desired filter vessel to release the dirty contaminated filter. Replace the desired filters with new fresh filters purchased from PSI.

Filter Part #	Description
LRS-10	Stage #1 - 10 micron
LRS-5	Stage #2 - 5 micron
LRS-3	Stage #3 - 3 micron
LRS-0.5	Stage #4 - 0.5 micron
LRS-0.5C	Stage #5 - 0.5 micron

