



## 860 Pan Handler Waste Management System

The Pan Handler is designed for the efficient disposal of waste solids created in the generating, fining, polishing and edging processes.\* Wastewaters are processed by separating out the solids and filtering the remaining effluent to a clarity that is generally acceptable to federal, state and local water ordinances.\*\* These solids are then removed in a semi-dry state, so they can be disposed of through regular means. Using PSI's Pan Handler will not only help you meet wastewater disposal requirements but will save you money by keeping sewer lines open reducing cleaning costs. For septic tank users it also saves on emptying.



### Features & Benefits

- Portable collection tank on solid steel swivel casters for easy collection of wastewater.
- Two-unit system, one portable tank and one stationary with pump, holds up to 35 gallons of water.
- No hard plumbing is required but a permanent sewage connection can be made.

### Specifications:

**Dimensions:**

Portable receiving tank 24" L x 24" W x 28" H  
Stationary processing unit 24" L x 24" W x 28" H

Tank capacity: Up to 35 gallons

Filter for liquids: 5 micron string wound filter

Filter for solids: Cotton filter bag

Sludge pump: Belt driven, 1/3 hp

### Cad-Con

If you are using alloy, it is important for you to make sure that the cadmium and lead in your waste water are disposed of properly. Cad-Con is an inexpensive and easy to use treatment that provides a sealant on the cadmium and lead particles to make them inactive and safe for solid disposal. Cad-Con is added to waste water and left to settle so the particles separate from the water. Using a Pan Handler makes this process simple.



Cad-Con: 8 lbs. - 1000; 1 lb. - 1001

Liquid pump: 2 Amps, 115V, 60 Hz, 360 gallons/hour  
Electrical requirements: 115V, single phase power  
Plumbing requirements: Water with a sink or sewage connection  
System options: Additional portable receiving tank (860-01T)  
Shipping weight: 286 lbs./130kg

\* When used in conjunction with Cad Con 1000, the Pan Handler can safely dispose of alloy reclaim water, fining water and polish slurry.

\*\* Due to the potential variation of conditions under which this product might be used and the disparity in regulations among states and local authorities, compliance is never guaranteed. Compliance must be demonstrated through periodic sampling and testing at a qualified laboratory and evaluation of results by a qualified environmental professional.

**To Order Call 800-237-8154 or Fax 800-330-3800**



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# Optical Lab Cleans Up

After the local wastewater treatment facility threatened to increase its water and sewer bill by as much as 15 times, this lab had to clean up its act fast and remove the solids from its effluent. Lab owner **Marvin K. Calahan** has all the details.

In the first week of July, two representatives of our local wastewater treatment facility visited us. After introducing themselves, they produced a glass jar filled with what could best be described as "nasty looking stuff." They told me that they had traced this product back through the sewer lines to our location. They asked me if I knew what it was. It was very apparent that the "stuff" was a mixture of polish, wastewater from our surface fining, and a few other miscellaneous goodies that had found their way down the drain. I was also

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informed that a sample of the "stuff" had been sent for laboratory testing and that the purpose of this visit was to enlighten us as to the results of that testing.

The good news was that there were no hazardous materials present. The bad news was that the "stuff" showed a total suspended solids (TSS) rating of 2,492 and a biological oxygen demand (BOD) rating of 1,920.

Technical jargon aside, these ratings were extremely high and would result in a reclassification of our wastewater and an exponential increase in our water and sewer bill by 10 to 15 times (not percent, times!).

At this point my visitors had my full attention. I immediately requested and was granted a six-week reprieve to attempt to reduce both our TSS and BOD ratings. My new acquaintances then departed but not before committing to a return visit in the not-so-distant future. Needless to say, the thought of becoming such a large financial contributor to our water treatment system was less than appealing. Within minutes I was on the phone with Practical Systems Inc. (PSI), gathering information. PSI recommended two units. I was impressed with what I found and promptly ordered both units.

## Filtration Saves Thousands of Gallons

To reduce the large amount of solids we were sending down the drain, PSI suggested using the 860 Pan Handler to separate our solids and liquids. The Pan Handler is a two-tank system that has a portable tank that drains wastewater from blockers, generators, edgers, and fining and polishing lines. Pan Handler Additive, a settling agent, and CadCon, a cadmium and lead sta-

bilizing treatment (used with alloy blocking), are then added to aid in settling. The wastewater is left to settle for four to eight hours



The 860 Pan Handler (top) separates solids and liquids, while the 993-2T (bottom) filters and recycles water used in surface fining.

or overnight and is then pumped into the second, stationary tank and through a five-micron string filter and out the drain. The remaining solids are pumped through the stationary tank and into a cloth filter bag and left to dry. Once dry, the bag is tied and disposed of with the other solid wastes from the lab.

To reduce our water usage, PSI recommended the 993-2T Filtration System for filtering and recycling the water used in our surface fining. This system is hooked up to the drain line from our finers. The water is pumped into the two-tank system, where it set-

les, is filtered and chilled before being pumped back into the cylinder machines. This system saves thousands of gallons of water daily. We could also use the system for coolant from our generators or edgers.

Within only three weeks both units had been shipped across the country, were installed, and were producing clean wastewater for disposal. I notified the wastewater disposal plant of our progress. Our wastewater was monitored for a full week,



and by the second week in August we had the results of our efforts. Our previous BOD of 1,920 had been lowered to 459, and our TSS had decreased from our initial rating of 2,492 to only 114. We are very pleased with both new ratings. Our efforts have allowed us to keep our water and sewer expenditures in check and are helping us to do our part in developing more environmentally friendly disposal processes. ■

Marvin K. Calahan is President of Vision Craft, Inc., Yakima, WA.