

## SETHCO MIDAS

## PRECIOUS METAL

## RECOVERY SYSTEMS

REDESIGNED TO EXTRACT PRECIOUS METALS  
FROM PROCESSING RINSE WATERS

# CECO Mefiag

A Division of CECO Environmental

## *The System That Pays For Itself!*

### ***Designed to extract Gold, Palladium, Rhodium and other precious metals from processing rinse waters.***

Sethco's low cost ion exchange systems contain specially selected resin which will extract precious metal ions from processing rinse water. It makes no difference whether the precious metal is part of a positive or negative ion, or whether your plating solution is acid, alkaline or neutral, the MIDAS can recover up to 2 troy ounces of precious metal per pound of resin.

### **SETHCO MIDAS FEATURES:**

- Rugged non-metallic chamber construction.
- Choice of 5 sizes containing up to 50 pounds (22.5 kilos) of resin.
- Recovery of up to 100 troy ounces of precious metal.
- Ion exchange resin is securely held in a polypropylene bag for ease of handling.
- Choice of sealless, leakproof corrosion resistant pumps for in or out of tank use.
- Compact design takes little floor space.
- Completely automatic – needs no labor or supervision and is simple to operate.
- The practical Midas is so easy to maintain and so economical to purchase that the unit can quickly pay for itself.

### **MINI MIDAS SERIES**

Sethco's MINI MIDAS Systems are designed to recover up to 9 troy ounces of precious metal before resin replacement. Each system features a CPVC "screw top" chamber for fast resin replacement. Each system comes complete with pump and motor, MIDAS chamber, inlet and discharge hose and all accessories required to set up and operate the system. Resin should be ordered separately.

### **MAXI MIDAS SERIES**

Sethco's MAXI MIDAS Systems are ideal for large rinse tanks and are designed to recover up to 100 troy ounces of precious metal before resin replacement. Each rugged system comes complete with pump and motor, MIDAS chamber, inlet and discharge hoses and all accessories required to set up and operate the system. The MAXI MIDAS Systems are available with PVC Chambers for rinse tanks up to 140°F(60°C), or with CPVC Chambers for rinse tanks up to 180°F(82°C). Resin should be ordered separately.



### **EASY TO OPERATE:**

1. Just insert resin charge(s) in the chamber(s).
2. Close chamber(s) and turn on the pump.
3. The solution is pumped through the ion exchange resin charge continuously extracting metal ions from the rinse water.
4. When the resin is exhausted the charge is then removed from the MIDAS chamber and sent to your local refinery.
5. The chamber is then reloaded, closed and the recovery process is repeated with minimum interruption.

# Sethco MIDAS PRECIOUS METAL RECOVERY SYSTEMS

## SPECIFICATIONS, MINI MIDAS SERIES

| MIDAS SYSTEM | THEORETICAL MAXIMUM PRECIOUS METAL RECOVERY (TROY OZ.) | RESIN CHARGE LBS. | MIDAS RESIN CHAMBER | PUMP      | MOTOR HP |
|--------------|--|-------------------|---------------------|-----------|----------|
| ZDDR-01      | 3  | 1.5               | DR-310              | ZDX-1/12C | 1/20     |
| PMDR-01      |  |                   |                     | PM-510    | 1/3      |
| PMSPDR-01    |  |                   |                     | PMSP-510  |          |
| ZDDR-02      | 6  | 3.0               | DR-320              | ZDX-1/12C | 1/20     |
| PMDR-02      |  |                   |                     | PM-510    | 1/3      |
| PMSPDR-02    |  |                   |                     | PMSP-510  |          |
| ZDDR-03      | 9  | 4.5               | DR-330              | ZDX-1/12C | 1/20     |
| PMDR-03      |  |                   |                     | PM-510    | 1/3      |
| PMSPDR-03    |  |                   |                     | PMSP-510  |          |

## SPECIFICATIONS, MAXI MIDAS SERIES

| MIDAS SYSTEM  |                | THEORETICAL MAXIMUM PRECIOUS RECOVERY (TROY OZ.) | RESIN-CHARGE (LBS.)   | MIDAS RESIN CHAMBER                            | PUMP        | MOTOR HP |
|---------------|----------------|--|-----------------------|--|-------------|----------|
| W/PVC CHAMBER | W/CPVC CHAMBER |  |                       |  |             |          |
| ZDVR-12.5B    | ZDDR-12.5B     | 25   | 12.5                  | VR-624B (PVC)<br>or<br>DR-624B (CPVC)          | ZDX-1/3C    | 1/5      |
| PMVR-12.5B    | PMDR-12.5B     |  |                       |  | PM-510      | 1/3      |
| PMSPVR-12.5B  | PMSPDR-12.5B   |  |                       |  | PMSP-510    | 1/3      |
| ZDVR-25B      | ZDDR-25B       | 50   | Two 12.5 Lb. Charges  | VR-636B (PVC)<br>or<br>DR-636B (CPVC)          | ZDX-1/3C    | 1/5      |
| PMVR-25B      | PMDR-25B       |  |                       |  | PM-510      | 1/3      |
| PMSPVR-25B    | PMSPDR-25B     |  |                       |  | PMSP-510    | 1/3      |
| ZDVR-50B      | ZDDR-50B       | 100  | Four 12.5 Lb. Charges | Two VR-636B or<br>Two DR-636B<br>(In parallel) | ZDX-1/2B    | 1/4      |
| PMVR-50B      | PMDR-50B       |  |                       |  | PM-1040NT   | 3/4      |
| PMSPVR-50B    | PMSPDR-50B     |  |                       |  | PMSP-1040NT | 3/4      |

## SPECIFICATIONS, MIDAS CHAMBERS

| MODEL                                   | RESIN CHARGE | RECOVERY (TROY OZ.)† | WEIGHT (Without Resin) | HEIGHT in. | DIAMETER in. | BASE in.          | INLET  | OUTLET |
|---|--------------|----------------------|------------------------|------------|--------------|-------------------|--------|--------|
| DR-310                                  | 1.5 lbs.     | 3                    | 6 lbs.                 | 17 1/2"    | 4 7/8"       | 4 1/2" x 4 1/2"   | 3/4"   | 3/4"   |
| DR-320                                  | 3 lbs.       | 6                    | 7 1/4 lbs.             | 28"        |              |                   |        |        |
| DR-330                                  | 4.5 lbs.     | 9                    | 8 1/2 lbs.             | 38"        |              |                   |        |        |
| VR-624B/DR-624B                         | 12.5 lb.     | 25                   | 22 lbs.                | 32"        | 9"           | 10 1/2" x 11 1/4" | 1 1/2" | 3/8"   |
| VR-636B/DR-636B                         | 25 lb.       | 50                   | 28 lbs.                | 49"        |              |                   |        |        |
| <b>TWIN CHAMBERS</b><br>VR-636B/DR-636B | 25 lb.*      | 100                  | 66 lbs.                | 52"        | —            | 20" x 24"         | 1 1/2" | 3/8"   |

\*Each Chamber † Theoretical Maximum

**WARRANTY:** One year warranty against defective parts and workmanship. See Form TC-01 for full warranty details. Always be specific about your application in order that proper materials may be furnished. Let Sethco or an authorized distributor know: liquids being handled, gallons, temperature and pH. The standard warranty does not apply when equipment is used contrary to factory recommendations. Since the policy of Sethco is one of continual improvement, we reserve the right to change design or materials at any time, without giving notice or creating any obligations to previous or future customers.

## PUMPS

(Available separately or with pump)  
**Leakproof Pumps Available To Meet Your In-Tank or Out-of Tank Requirements**



## MAGNETIC DRIVE PUMPS PM SERIES

Self Priming or End Suction life time coated ceramic magnets are sealless and cannot leak or aerate. An almost frictionless ceramic shaft provides longer pump life and vibration-free service. These pumps are fabricated from glass filled polypropylene which has superior mechanical properties and excellent corrosion resistance.

Visit Sethco's website [www.sethco.com](http://www.sethco.com) for full details.



## IN-TANK PUMPS ZDX SERIES

The Sethco ZDX pumps are self-priming, have no seals, no bearings and no wearing parts. The can even run dry without damage to the pump. Opposing twin-impeller design feature (Sethco patented) provides high volume flow and eliminates leakage and aeration. All liquid contact parts are high strength corrosion resistant, lightweight CPVC, capable of handling the roughest of solutions. Pump can be mounted in tank or out of tank.

Visit Sethco's website [www.sethco.com](http://www.sethco.com) for full details.

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