

# QUESTIONS OR TO ORDER CALL 818-998-3500 FAX 818-998-4939

### EMAIL sales@wastechengineering.com

# - Sigma TM -Model VDT Vacuum Distillation System for waste reduction



#### Applications

- Eliminate waste hauling of contaminated water
- Reduce waste water volume
- Produce distilled water for recycling
- Eliminate combustion byproducts
- Recover metals and other insoluble solids
- Recover of materials sensitive to heat
- Closed loop solution for water reuse systems
- Zero Discharge opportunity when waste is recycled

## **Complete Waste Reduction**

#### **Process Highlights**

- Standard models for 300 to 2000 gallons per day waste systems
- Low temperature distillation eliminates permitting problems

- Operates at all outside temperatures
- Atmospherically sealed so there is no opportunity for an accidental discharge
- May be located inside with remote heat ejector option.
- Fast startup for on demand treatment
- Heat pump design makes most efficient use of energy
- Robust process deals with large range of contaminants

#### **Standard Features**

- Automated system
- Allen Bradley PLC and HMI
- Completely self-contained heat and cooling
- Electrically powered, no other utilities required
  Continuous process such with various output
- Continuous process cycle with various output volumes
- Programmable concentration level
  - Complete NEMA 4X control panel
    - PLC control
    - Automatic chemical dispensing
    - Manual pump controls
    - Operational alarms

#### Options

- Stainless Steel sanitary "Tri-Clover" connections
- Fully networkable Allen Bradley PLC
- Secondary containment for the entire skid
- Vacuum chamber illumination
- Filtration options for the incoming waste
- Automatic antifoam
- Various communication options for remote monitoring
- Remote mounted control panel also available
- Transfer pump stations where needed
- Storage and holding tanks
- Remote tank level sensors for auto control.

#### **Operational Guidelines**

- Fully automatic operation
- Requires less than two hours per week of maintenance
- Can handle influent quality changes
- Will recover 92-97% distillate
- Produces solid waste at approx 20% concentration
- Operational temperature is approximately 100°F
- Can be operated by non-technical staff

#### Materials of Construction

- Tanks are Stainless Steel
- Wetted piping is copper, PVC and CPVC
- Skids are powder coated steel
- Std control panel powder coated steel
- Pumps are Stainless Steel

#### Utility

480VAC, 3-Phase, 60HZ

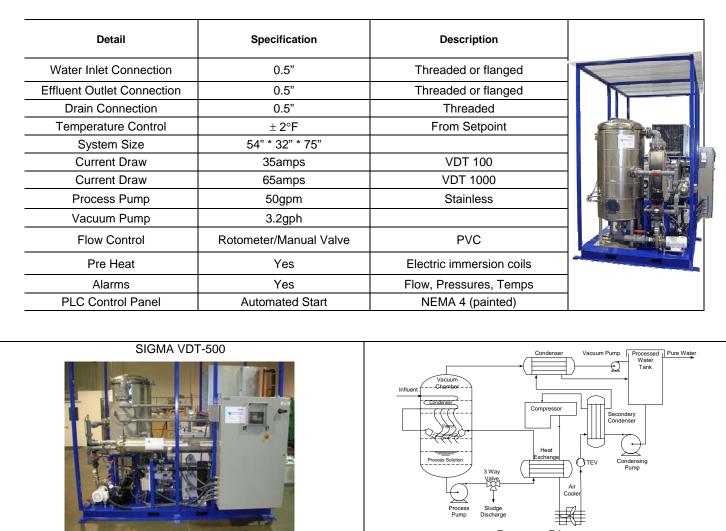
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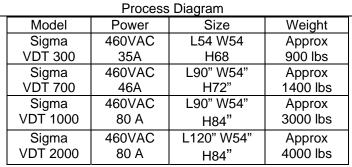
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CONTROLS & ENGINEERING, INC.



Control Panel with AB Touch screen HMI





Models Available