INTRODUCTION

ABOUT ECOSORB AND OMI INDUSTRIES
OMI Industries specializes in developing natural solutions to control industrial odors, based on our powerful chemistry, innovative technology, and proven expertise.

The line of Ecosorb® products and delivery equipment eliminate industrial odors without the use of harsh or hazardous ingredients, expensive emission control systems, or masking fragrances. For virtually every odor, every industry, every plant, factory, or facility, there is an Ecosorb odor removing solution.

CHEMISTRY
Ecosorb uses simple science — adsorption, absorption, gas solubility, reaction, and biodegradation — to harness the power of plant oils as natural odor removers. Our proprietary blends are developed in lab settings to tackle specific or broad-spectrum odors.

Ecosorb is strong enough to battle the toughest smells (from landfills to refineries to wastewater treatment facilities), yet safe for people and the environment. Its plant-based formula is non-toxic and does not rely on harmful chemicals to be effective.

TECHNOLOGY
Based on the environment and odor type, Ecosorb is available as water-based, gel, or additive formulas. The experienced engineers at OMI have designed and built a range of delivery systems, tested and proven to remove odors in many industries.

Odor & Gas Testing
On-site odor quantification and composition testing available with Nasal Ranger and Scentroid unit. In-house gas testing is also available using our expertly calibrated gas chromatography-mass spectrometer (GCMS).

Equipment
We manufacture and customize equipment to deliver Ecosorb, based on each application and its environment — weather, delivery method, output volume, and more. Ecosorb delivery systems fully integrate with your existing equipment and processes. Our engineers work with your team to install and maintain a complete odor solution. We also develop and build made-to-order solutions, tailored to your unique odor issues. All technologies allow for optional PLC controls, web-based/phone-based monitoring controls, and on-site warranty and service programs.

EXPERTISE
Over 30 years of field research and successful applications, OMI Industries has emerged as the world’s authority in natural odor elimination.

Detailed testing data proves Ecosorb works across a variety of industrial markets. The odor-destroying powers of Ecosorb are supported by research by independent labs, universities, and olfactometry researchers. Each has proven its safety and effectiveness — something that sets Ecosorb apart from other odor control products.

Independent firms, both in the U.S. and internationally, were used to ensure accurate, unbiased results. We also continually test Ecosorb products and develop new custom blends in our state-of-the-art Research & Development center to ensure consistency, effectiveness, and quality.

The experienced engineers at OMI work with each facility to create a total odor solution, tailored to your needs. Using our years of expertise in odor control, we match your odor problem to an existing Ecosorb blend. In some cases, a custom formula is needed to battle unique odor combinations. Chemists at OMI can determine the best mix of ingredients for each odor issue.
## TECHNOLOGY PROPOSAL

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Equipment Name &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ea.</td>
<td><strong>A1005xx00</strong>: 450 CFM, 5 HP, 19&quot;WG, High Static Pressure Vapor Phase System</td>
</tr>
<tr>
<td></td>
<td><strong>Horizontal Discharge</strong></td>
</tr>
<tr>
<td></td>
<td><strong>480 VAC, 3 Phase, 60 Hz. 8 amps</strong></td>
</tr>
<tr>
<td></td>
<td>Includes: 4.5 GPD FMI Pump, Oil less air compressor, 45 gallon product storage tank, totally enclosed with a Tower indicator light</td>
</tr>
<tr>
<td></td>
<td>1 x 8” to 8” Fernco Fitting to connect to discharge pipe.</td>
</tr>
<tr>
<td></td>
<td>Digital Multiple daily event timer.</td>
</tr>
<tr>
<td></td>
<td>This system is capable of an ECOSORB 606 output of 0.1 to 4.5 gallons per 24-hour period.</td>
</tr>
<tr>
<td></td>
<td><strong>The system does not require any water.</strong></td>
</tr>
<tr>
<td>1 ea</td>
<td><strong>AS8200AA##</strong>: Directional Wind Controller</td>
</tr>
</tbody>
</table>

### Total Equipment Cost:

| 1500 ft. | 8”, 6”, and 4” (DN200) PVC SDR 35 Bell & Sleeve Glued or welded HDPE – minimum of 10’ of Vapor ducting required from VPS discharge to the first bend in the vapor piping. Shown in attached drawing. |
|          | Additionally |
|          | 1. 1 x 8” Fernco connection included |
|          | 2. 1 x 4” Cap |
|          | 3. Additional fittings and expansion joints will be needed. |
UTILITY REQUIREMENTS

UTILITY REQUIREMENTS OF 450 CFM VAPOR PHASE SYSTEM:
- Systems requires 480 VAC, 3 Phase, 60 Hz, 8.0 amp. Suggest a 15 amp Power Supply
- Customer will be responsible to provide utility source to the pump module.
- Customer will be responsible to install system and purchase PVC Vapor Line

SYSTEM LOCATION REQUIREMENTS FOR 450 CFM SYSTEM:
- This unit is totally enclosed and will be placed outside.
- System Weight and Dimensions for shipping (crated) are:
  - 57” L x 60”W x 52”H.
  - Weight is 962 lbs.

DUCTING REQUIREMENTS:
- Engineering calculations allow for a maximum of 800’ of 8” diameter ducting, 500’ of 6” ducting and 200’ of 4” ducting per this system layout. Systems are supplied with 8” to 8” inch diameter Fernco Fitting from blower outlet
- Total area of vapor port opening should be 12.71 square inches to reach optimum vapor velocity of 5,000 feet per minute.
- Evaporation Pond West and North Edge
  - Total 300 Vapor Ports, each ¼” diameter can be installed in this system approximately every 5’ oc

NOTES
- Please Allow 6 - 8 Weeks Lead Time.
- Prices shown do not include freight.
- All Prices are US Dollars
- All Prices are FOB Rising Sun, IN USA
- 50% down payment with order
- Balance and Freight Cost due prior to shipment.
- Pricing Good for 90 days
When odor control is needed, depending on the intensity of the odor, the Ecosorb 606 usage and the cost per hour will vary. Based on your application, I would suggest the starting set point be at 11.35 Lpd adjusting based on results.

<table>
<thead>
<tr>
<th>450CFM VPS 3.7 to 17.0 Lpd Range Settings (24 hour Operation)</th>
<th>Ecosorb 606 Liter per Hour</th>
<th>Ecosorb606 Cost per Liter (Min 2 drum price) Ex-Works</th>
<th>Total Cost Per Hour of Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.785 Lpd</td>
<td>0.158 Lph</td>
<td>$9.61</td>
<td>$1.52</td>
</tr>
<tr>
<td>7.570 Lpd</td>
<td>0.315 Lph</td>
<td>$9.61</td>
<td>$3.03</td>
</tr>
<tr>
<td>11.35 Lpd</td>
<td>0.473 Lph</td>
<td>$9.61</td>
<td>$4.54</td>
</tr>
<tr>
<td>17.03 Lpd</td>
<td>0.710 Lph</td>
<td>$9.61</td>
<td>$6.82</td>
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</tbody>
</table>
Systems requires 480 VAC, 3 Phase, 60 Hz, 8.0 amps. Suggest 15 amp Power Supply Only, No Water
APPLICATIONS

- Petrochemical Plants
- Foundries
- Food Processors
- Wastewater Treatment
- Agriculture
- Landfills
- Pulp & Paper
- Soil Remediation
- And More

To combat strong odors outdoors, the standard 450 Vapor Phase unit is fully encased in durable steel. The optional PLC model is open, for easy pairing with an Ecosorb® 55 gallon drum or 275 gallon tote, and includes color touch screen controls. Each unit delivers continuous dry vapor to eliminate airborne odors from any industrial source.

BENEFITS

- No added water required
- Simple to install, operate & maintain
- Smaller droplets, more absorption
- Flexible & efficient
- Reduced capital expense
- Requires no mixing or dilution
- Zero nozzle maintenance in the distribution system
<table>
<thead>
<tr>
<th>Technical</th>
<th>Model 450</th>
<th>Model 450 (PLC)</th>
</tr>
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<tbody>
<tr>
<td>Framing</td>
<td>Enclosed</td>
<td>Open with corner protectors</td>
</tr>
<tr>
<td>Power</td>
<td>480V, 3 Phase, 60Hz, 4.5 Amps</td>
<td>480V, 3 Phase, 60Hz, 6 Amps</td>
</tr>
<tr>
<td>Dimensions</td>
<td>42&quot; x 42&quot; x 36&quot;, 600lbs</td>
<td>44&quot; x 36&quot; x 68&quot;, 600lbs</td>
</tr>
<tr>
<td>Blower</td>
<td>3 HP standard blower</td>
<td>3 HP standard blower</td>
</tr>
<tr>
<td>Blower Specs</td>
<td>450 CFM @ 15 IWG Static Pressure</td>
<td>450 CFM @ 15 IWG Static Pressure</td>
</tr>
<tr>
<td>Blower Outlet Size</td>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls</td>
<td>Conventional</td>
<td>Allen Bradley PLC w/ color touch screen</td>
</tr>
<tr>
<td>Product Capacity</td>
<td>45 Gallon (on board tank)</td>
<td>55 Gallon (Drum) or 275 Gallon (Tote)</td>
</tr>
<tr>
<td>Liquid Delivery</td>
<td>0.1 - 4.5 GPD</td>
<td>1.0 - 4.5 GPD</td>
</tr>
<tr>
<td>Low Liquid Level</td>
<td>Monitoring + Shut off + Alert</td>
<td>Monitoring + Shut off + Alert</td>
</tr>
<tr>
<td>Priming</td>
<td>Push to prime</td>
<td>Auto prime</td>
</tr>
<tr>
<td>Intake</td>
<td>Filtered</td>
<td>Filtered + Clean Indicator</td>
</tr>
<tr>
<td>Monitoring</td>
<td></td>
<td>• Air &amp; Liquid Pressure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Motor Current &amp; Overload</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Liquid Flow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Running Time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Options</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Timer</td>
<td>Digital, Mechanical, Flip-flop</td>
<td>Included</td>
</tr>
<tr>
<td>Discharge Outlet Orientation</td>
<td>Rear Horizontal or Vertical</td>
<td>Rear Horizontal or Vertical</td>
</tr>
<tr>
<td>Extendable Intake</td>
<td>Side, Back, or Front</td>
<td>Side, Back, or Front</td>
</tr>
<tr>
<td>Remote Monitoring</td>
<td>With or W/O Auto Control</td>
<td>With or W/O Auto Control</td>
</tr>
<tr>
<td>Alternate Voltage</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Wind Direction Optimization</td>
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<td>✓</td>
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<tr>
<td>Plant Air Setup</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>High Pressure Static Version</td>
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<td>✓</td>
</tr>
<tr>
<td>Blower Motor Soft Start</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Freeze Protection Package</td>
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<td>✓</td>
</tr>
<tr>
<td>Explosion Proof Package</td>
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<td>✓</td>
</tr>
<tr>
<td>Sound Insulation Package</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Alternate Blower/Motor Size</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Valve Control</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Air Flow Indicator</td>
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<td>✓</td>
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</table>

### Static Pressure (IWG)

<table>
<thead>
<tr>
<th>Unit Model</th>
<th>Product Uptake (Max)</th>
<th>Actual Airflow Max (CFM) @FLA</th>
<th>@Rated CFM</th>
<th>@FLA</th>
<th>Unit Blower Outlet Pipe Size(in.)</th>
<th>Duct Pipe Dia. (in.)</th>
<th>Pressure Loss/100ft (IWG)*</th>
<th>Max. Duct Length (ft.)</th>
<th>Pressure Loss/100ft (IWG)*</th>
<th>Max Duct Length (FT) [TOTAL LENGTH]</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>4.5 PPD</td>
<td>800</td>
<td>14.8</td>
<td>11.6</td>
<td>6</td>
<td>6</td>
<td>20.0</td>
<td>10.0</td>
<td>10.0</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>4.0</td>
<td>450</td>
<td>1.5</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td>1.0</td>
<td>1200</td>
<td>0.35</td>
</tr>
</tbody>
</table>
Ecosorb® 606 is a broad spectrum odor neutralizer that can be diluted with water or used neat depending on application and delivery equipment. The product is commonly atomized into odorous process air, but can also be added to water tolerant resins, sludge, and the like to suppress the release of malodor. Given its effective strength, dilution with water ranges from roughly 1 part in 20 of water to 1 part in 400 of water and even higher. The product is a blend of plant oils, food grade surfactants, and purified water. It can be diluted with water and/or less polar solvents such as 2-propanol without expected reactions. When diluted with water, it forms a stable but weak emulsion. Whether used neat or if diluted with water, the product is safe to handle and can be disposed of down the drain.

FEATURES
- True odor neutralizer
- Biodegradable and non-toxic
- Environmentally friendly
- No measurable flash point
- Scientifically proven

ADVANTAGES
- Absorbs, reacts, and removes odors without masking
- Usually no permits required
- Safe for employees and neighbors
- Safe for all environments
- It performs as advertised

PHYSICAL PROPERTIES

pH: ~6 (see note below)
Specific gravity: ~0.99
Boiling point: ~208°F
Appearance: milky white
Odor: slight citrus and floral

pH note: Ecosorb 606 is made with purified water therefore having little ionic activity. Common pH instruments that measure ionic activity can give false low readings in the pH 4 range.

HMIS CLASSIFICATION

Health: 0
Flammability: 0
Reactivity: 0
Protective equipment: B
ALL INGREDIENTS CAN BE FOUND LISTED ON THE FOLLOWING CHEMICAL SUBSTANCE INVENTORIES:
United States: TSCA
Canadian: DSL
European: EINECS
Australian: AICS

HANDLING AND PACKAGING
Ecosorb® 606 is shipped in HDPE containers. It is recommended that the product be stored, even if diluted, in HDPE, polypropylene or stainless steel containers. Storage containers should be kept tightly sealed, long term exposure to ambient air can affect the product and it will attract airborne particulates. During storage it should not be subjected to temperatures below 35°F or above 85°F. Allowing the product to freeze is especially damaging and will disrupt the emulsion. Extended exposure to higher temperatures may cause separation, but the emulsion can be restored through agitation or mixing. The product does not burn.

DISPOSAL AND CLEANUP
Wash with water or soap and water. The product is not hazardous to humans, animals, or the environment and can be disposed of by flushing to the drain.

CONTAINERS
Ecosorb 606 is available in the following sizes:
- 5 Gallon Pails
- 55 Gallon Drums
- 275 Gallon Containers
PRODUCT WARRANTY

Products manufactured by OMI Industries, Inc. bear the following limited warranty:
The seller warrants that the goods to be delivered will be of the kind and quality described in the proposal, purchase order, or contract and will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within one (1) year after the initial date of delivery, the seller shall, upon notification thereof and substantiation that the goods have been stored, installed, maintained, and operated in accordance with the seller’s operational manual and standard industry practice, correct such defect by suitable repair or replacement at the seller’s expense. This warranty is limited to repairing or replacing products which the manufacturer’s investigation shows were defective at the time of shipment by the manufacturer.

All products subject to this warranty shall be returned for examination, repair, or replacement freight prepaid to:

OMI Industries, Inc. (Equipment Division)
1300 Barbour Way
Rising Sun, IN 47040

This warranty is exclusive and is in lieu of any warranty or merchant ability, fitness for a particular purpose or other warranty of quality, whether expressed or implied, except of title and against patent infringement. Correction of non-conformities, in the manner and for the period of the time provided above, shall constitute fulfillment of all liabilities of the seller to the purchaser with respect to, or arising out of the good, whether based on contract negligence, strict tort or otherwise.

LIMITATION OF LIABILITIES

Repair or replacement of defective products as provided above is the sole and exclusive remedy provided hereunder and the seller shall not under any circumstances be liable for special or consequential damages such as, but not limited to, damage or loss of other property or equipment, loss of profits, or revenue, cost of capital, cost of purchased or replacement goods, or claims customers of the purchaser for service interruptions. The remedies of the purchaser set forth are exclusive and the liability of seller with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale delivery, resale, installation, or use of any goods covered by or furnished under this contract whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liabilities based. This is the only warranty on any OMI Industries product. No other writing, or description, in the literature shall be construed as a warranty.

Products manufactured by another entity (other than OMI Industries), bear the following limited warranty: Seller warrants that the goods manufactured by others will conform to the description herein stated. No other warranty expressed or implied is made, and warranty of the manufacturer is hereby assigned and transferred to the buyer. Furthermore, except for the manufacturer’s warranty, if any, the products sold hereunder are sold as is. OMI Industries is not liable for any incidental or consequential damages in connection with these products.
ATTACHMENT E – EVAPORATIVE SPRAYER UNIT DETAILS
OVERVIEW

The SMI® 420F Evaporator is a floating unit, designed for effective operation in small areas, especially sites containing large particles or highly corrosive water. The 420F Evaporator is durable, simple to use and easy to maintain – a reliable way to manage excess water.

FEATURES

Floating unit supported by plastic pontoons containing closed-cell PU foam

Low plume height for shorter drift distance, allowing longer operation in swirling or changing winds

Heavy industrial construction, including stainless control panel, motor enclosure, manifold and fan blade, increasing durability and life span

Vibration sensor included to shut down motor before catastrophic failure due to residue or ice build-up

Stainless steel submersible pump attached to floating frame

BENEFITS

Low Buildup: the SMI® 420F Evaporator is designed with a minimal amount of top surface area to control the build-up of residue or ice, helping to reduce clean up and maintenance!

High Performance: High-speed fan blade rotation creates an optimum water droplet distribution for evaporation. Annual evaporation rates up to 70% have been achieved with the 420F, and averages are typically between 25% and 60%. Evaporation rates depend on many factors, including ambient temperature, relative humidity, water make-up and wind conditions.

Easy Maintenance: The machine is designed for easy cleaning and maintenance. It requires no weekly bearing lubrication, as it is lubricated for the life of the motor.

Minimal Clogging: The SMI® 420F Evaporator can pass particles up to 3/16 inch (4.7 mm) in diameter, which reduces the need for pre-filtering, filter cleaning and the hassles of clogged nozzles.

Extreme Duty: This design has evolved from 10 years of experience in industrial and extreme outdoor applications. Polyethylene pontoons are filled with closed-cell polyurethane foam, ensuring buoyancy even after any accidental puncturing of the plastic outer shell. Critical components are manufactured from stainless steel for extended life in harsh environments.
SPECIFICATIONS

Fan and Head Assembly
- Stainless steel 20 inch diameter 12 blade patented fan
- Stainless steel enclosure protects fan motor and enhances cooling
- Vibration sensor for motor shut down due to fan imbalance

Floats and Platform
- Galvanized steel frame structure using stainless steel fasteners
- 4 polyethylene UV stabilized pontoons
- Pontoons filled with closed-cell polyurethane foam

Water System
- 2.0 HP stainless steel submersible pump
- Pump options: 460V / 60HZ, or 400V / 50HZ, or 575V / 60HZ
- Stainless steel spray manifold, designed to provide up to 25GPM flow
- Ball Valve to regulate flow to spray manifold for changing weather conditions on manual units; VFD on automated equipment

Electrical
- 25 HP Premium efficiency fan motor
- Fan motor rotates at 3600 RPM at 480 or 575 volts, 3 phase, 60 cycle power or 2900 RPM at 400 volts 50 cycle power
- Stainless steel control panel with start and stop buttons
- 200 feet (61 M) electrical power cord

Warranty
- 6 month warranty on all parts and workmanship

Options
- For acidic or high alkaline water applications, stainless steel construction and acid-resistant coating
- Y-line manual flush filter for dirtier water
- Automation, to shut down and start-up evaporator due to wind speed and direction, temperature and humidity

SMI Evaporative Solutions
1512 North Rockwell Dr.
Midland, MI 48642
+1 989 631 6091
+1 800 248 6600
evapor.com
# 8FT Galvanized Panel Shelter ASM

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>QTY.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>425200-1</td>
<td>8FT Wide Shelter Frame</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>425100-1</td>
<td>Shelter Leg</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>425300-1</td>
<td>8 FT Shelter Roof</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>425100-2</td>
<td>Shelter Roof Brace</td>
</tr>
</tbody>
</table>

**8FT GALVANIZED PANEL SHELTER ASM**

**WEIGHT:** 2898.23 LB/ KG

**SCALE:** 1:25  SHEET 1 OF 3