



Distributed by: Air-Met Scientific Pty Ltd Air-Met Sales/Service P: 1800 000 744 F: 1800 000 774

Air-Met Rental
P: 1300 137 067
E: hire@airmet.com.au
W: www.airmet.com.au



Hydrocarbon Recovery System

Geotech Single & Multi-Well Solar Sipper

The Geotech Solar Sipper is a solar powered remediation system, designed for remote applications where electrical power is either not available or not economically feasible. This uniquely flexible system can be configured for up to eight wells. The compact, easy to install features make this unit efficient to move and implement multiple wells.

The Solar Sipper uses a unique downwell pump to recover hydrocarbons through a floating oleophilic/hydrophobic intake filter. Once the pump canister is filled via the vacuum cycle, the pump reverses, pressurizes the system and pumps the recovered fluid to the surface and into a storage vessel.

The Geotech Solar Sipper can effectively extract fluids from depths to 180 feet below ground surface and recover viscous hydrocarbons such as 90 weight oil when our heavy oil skimmer is utilized.

EASE OF DEPLOYMENT

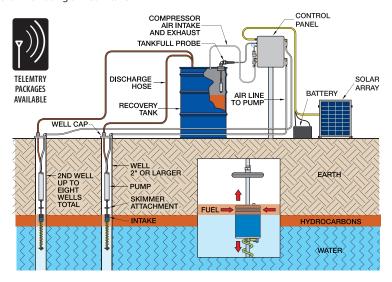
The Solar Sipper can reduce overall project costs and dramatically improve deployment:

- · Available in single or multi-well configurations
- Reduces the time and cost for a power line to be run to a site.
- Eliminates the need for electricians to do install work and permitting.
- The simple and safe low voltage system can be installed without special training or licensing and requires minimal experience.
- · No trenching or transformer equipment is required.
- Relocating equipment to follow a plume or to adjust to new site characterization information is fast and easy.

OPERATION

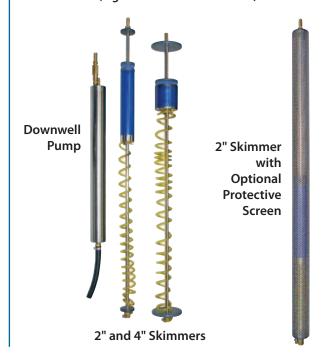
The Geotech Solar Sipper recovers floating hydrocarbons (LNAPL) from wells using a solar powered pressure/vacuum pump. The standard Skimmer features a unique product intake assembly that incorporates both a density float and an oleophilic/hydrophobic filter that differentiates between floating hydrocarbons and water. The skimmer floats just above the oil/water interface to collect and remove hydrocarbons from the well into an optional above ground storage tank.

The Geotech Solar Sipper is also available for recovery of sinking product (DNAPL) from wells when using a fixed intake.





Control Panel and Pressure/Vacuum Pump (eight-well controller shown)



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242
email: sales@geotechenv.com website: www.geotechenv.com

Hydrocarbon Recovery System



Geotech Single & Multi-Well Solar Sipper

DESIGN YOUR RECOVERY SYSTEM

Step 1: Control Panel

- ✓ Choose from 1 to 8 wells
 - NEMA 3R Enclosure
 - Tankfull Shut-Off Switch (³/₄" or 2" NPT bung-fitting)
 - Microprocessor Controlled 2-Line LCD Display with four scroll buttons
 - On/Off Switch
 - Pressure/Vacuum Pump
 - · Pressure/Vacuum Gauge

Step 2: Solar Accessories

- ✓ 100 watt solar panel(s) with adjustable mounting frame
- ✓ AGM Solar Batteries 104 AH, 12 Volt

AC powered versions are available



Step 3: Downwell Equipment

- ✓ Downwell Pump(s)
 - Standard
 - · With Conductivity Sensor
- ✓ Skimmer(s)
 - 2" or 4" Skimmer with 100 or 60 Mesh Intake
 - 2" or 4" Protective Screen
 - 4" Skimmer with Extended Travel
 - 4" Heavy Oil Skimmer
 - · 4" High Temperature/Heavy Oil Skimmer
 - 2" DNAPL Intake

Other Options:

- ✓ 2" or 4" Slip Fit Well Cap(s)
- Choose Length: Air and Discharge Tubing
- ✓ 55 Gallon Steel Product Drum(s)
- ✓ Dual-Wall Containment Product Recovery Tank(s)
- ✓ Lockable Weatherproof Enclosure
- ✓ Trailer for Mounting Mobile System
- Telemetry Packages

SPECIFICATIONS

Applications:	2" (50 mm) or larger recovery wells	
Recovery Rate:	.2 gallons (757 ml) per cycle	
Maximum Operating Depth:	180 feet (55m)	
Power Requirements:	12-15 Volts DC input @ up to 14.5 Amps 90~240 Watts continuous	
Maximum Pressure:	100 PSIG (7 bar)	
Maximum Vacuum:	20" Hg @ MSL (50mm Hg)	
Oil/Water Separation:	Oleophilic/hydrophobic mesh screen	
Controller: Operating Temperature Storage Temperature Range Humidity Size	32° to 104°F (0° to 40°C) -20° to 150°F (-29° to 66°C) 90% non-condensing (max) 10" D x 18" T x 16" W (25.4cm D x 45.7cm T x 40.6cm W)	
Approximate Weight Rating	34 lbs. (15.4 kg) single channel 49 lbs. (22. 2 kg) eight channel NEMA 3R	
Optional Solar Panel w/Frame: Rated Power Operating Voltage Maximum Voltage Operating Amperage Maximum Amperage Size Approximate Weight	100 Watts (standard unit) 17.4 Volts DC 21.5 Volts DC 4.88 Amps (standard unit) 5.8 Amps 41.2" H x 27.5" W (105 cm H x 70 cm W) 23.3 lbs. (10.5 kg)	
Optional Downwell Pump: Size Weight Materials	23.5" L x 1.75" OD (59.7cm L x 4.4cm OD) 4.5 lbs. (2.04 kg) 303 and 304 Stainless Steel, Flexible Rubber Tubing, PVC, Brass	
Optional Skimmer Assemblies: Effective Travel Range Size	,	4" Model 24" (61 cm) 35.5" L x 3.75" OD (90.2cm L x 9.5cm OD
Weight Operating Temperature	1.75 lbs. (.79 kg) 32° to 104°F (0° to 40°C	2.25 lbs. (1.02 kg)

Optional Tubing:

Storage Temperature

Air .17" ID (4.3mm ID) **Discharge** .375" ID (9.5mm ID)

-20° to 150°F (-29° to 66°C)

Polypropylene, Brass

304 Stainless Steel, Polyethylene, PVC,

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205 (303) 320-4764 • **(800) 833-7958** • FAX (303) 322-7242 email: sales@geotechenv.com website: www.geotechenv.com