

Oil, Gas & Petrochem Equipment®

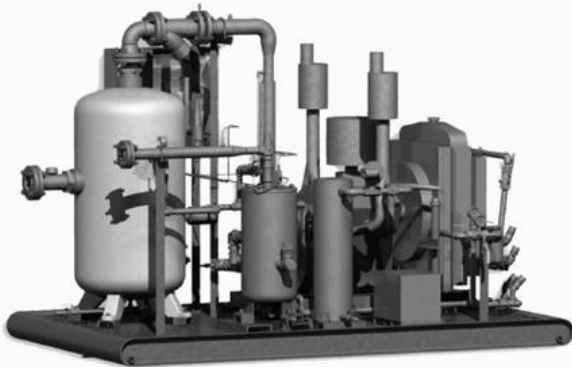
WHAT'S NEW in Oil Industry Onshore & Offshore Products and Services

PennWell®

Two new shale-play-applicable products, compliance support services introduced

Two new production products are unveiled specifically for high API gravity condensate and sour gas of Eagle Ford or other shale plays.

VRU Vapor Recovery Units capture valuable natural gas that would otherwise be vented or flared into the atmosphere. Pre-engineered, customizable packages feature PLC-based precision pressure regulation, automatic tank



pressure sensors, compressed vapors oxygen monitoring, and a compressor with variable-speed drive. Using compression to recover vapor from condensate and natural gas liquids storage tanks — stock VRUs are cited to recover between 22,000 and 400-mcf natural gas per day.

Designs comprise a direct-drive compressor, water-cooled engine, fuel-gas and water knockout tanks, oil coolers, plus precision pressure controller. They are mounted on a containment skid. Units can be outfitted with a rotary screw, piston, or scroll compressor, powered with either an electric or natural-gas-certified-to-EPA-standards engine.

H₂S Eliminator is also introduced to remove natural gas stream hydrogen sulfide. (PPE is required. All safety standards should be followed as not all contaminants may be removed during the treatment process). H₂SE is also designed to improve worker safety, extend client assets life, and meet hydrogen sulfide pipeline specifications.

This new product utilizes a triazene solution to remove H₂S from natural gas. Spent triazene solution can be safely disposed with produced water.

H₂SE comprises a structured packed contactor tower with stainless steel packing, solar-powered H₂S monitor, natural gas-powered pump, and such options as after-scrubber, heater, standby pump, and flash gas separator. Triazene solution circulation is controlled by the H₂S monitor to ensure pipeline specification is consistently met.

This products and services provider is also launching **Exterran Environmental Solutions** as a full range of emissions permitting and testing services.

To help ensure Federal and state regulations compliance, they offer environmental consulting, ultra-portable testing, mobile lab testing, leak detection, quantification and repair, engine compliance management software, and permitting services.

Additional VRU, H₂SE, and Exterran Environmental Solutions information is available free for the asking.

Exterran
16666 Northchase Drive
Houston TX 77060



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Special Report: Equipment, Products, Systems, Services

For Refining, Petrochem, Gas Processing

Secondary containment remote level, temperature monitor/alert

R.A.M.S. Remote Alert Monitoring System complies secondary containment. It monitors — and alerts high/low fluid or high/low temperature levels.

The self-contained design notifies almost immediately if a spill occurs to give you a head start to fix a problem and reduce environmental effect. It sends an alert text message and/or email to your contact list.

R.A.M.S. can be upgraded to monitor pressure alarms, compressor shutdowns, or tank levels too.

Unit Liner Company, Enviro-Guard Division

7901 North Kickapoo, Shawnee OK 74804

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Gas-treating sim-tool adds sour water stripper abilities

ProTreat Version 5.0 gas-treating process-simulation tool is newly released. It includes the option to add ammonia as a component whose absorption and stripping are calculated on the basis of mass transfer rates. This lets you model sour water strippers as well as determine the impact of ammonia as a contaminant in amine systems. The new ammonia package is cited as particularly useful for refinery and syngas design, optimization, and troubleshooting.

New, accurate Version 5.0 also includes enhanced reporting of stream data. This provides phase-specific compositions, thermodynamic, physical, and transport properties for use in generating heat exchanger curves or for other engineering tasks. Improved methane solubility predictions in MDEA, based on recent university research data, have also been incorporated.

Optimized Gas Treating Incorporated

12337 Jones Road, #432, Houston TX 77070

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Multi-applicable RTOs for oil, natural gas processing

RTO: Regenerative Thermal Oxidizers like this are designed to offer oil and natural gas processing application advantages: reduced CO₂ emissions, lower operating costs, and higher destruction efficiency.

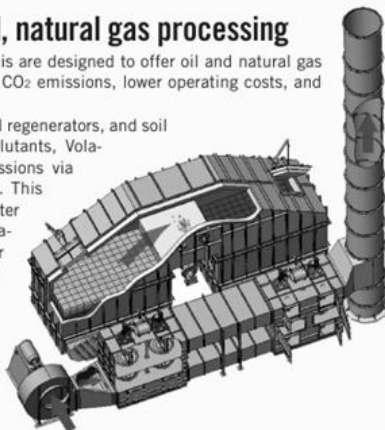
RTO serves amine stripper off-gases, glycol regenerators, and soil remediation. It destroys Hazardous Air Pollutants, Volatile Organic Compounds, and odorous emissions via high-temperature thermal oxidation process. This converts pollutants to carbon dioxide and water vapor. RTO and its process differ from catalytic, recuperative, and direct-fired oxidizer technologies. Destruction is achieved with little to no auxiliary fuel required once it is brought up to temperature.

Complete RTO information is yours free.

Anguil Environmental Systems Inc.

8855 North 55th Street, Milwaukee WI 53223

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Multi, four-gas detectors are portable, new

Simultaneously monitor and display up to four hazardous gas conditions with new **PS200 portable multi-gas detectors** like these.

Lightweight and durable, they use catalytic bead sensor technology to monitor and detect a wide range of combustible gases. They employ electrochemical sensor technology to monitor and detect carbon monoxide, hydrogen sulfide, and oxygen deficiency.

Weighing under 8 oz., the instruments are housed in a sturdy, water-resistant, dust-proof case for use in harsh environments and confined spaces.

Operator interface and calibration are intuitive and easy by toggling between one-button functions. PS200's high-visibility LCD screen continuously displays battery life, real-time gas concentration in parts-per-million, and oxygen by percentage. Maximum and minimum gas concentrations for each sensor can also be programmed and monitored. Full PS200 details are yours free.

Detcon, an Industrial Safety Technologies company
3200 Research Forest Drive, A-1, The Woodlands TX 77382

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Insertion mist eliminators quickly help reduce carryover

MistFix insertion mist eliminators offer quick and economical carry-over reduction.

In separation vessels you don't want to cut into — to replace the mist eliminator, or where you need to reduce carryover in an existing vessel without a mist eliminator — MistFix is designed to be the solution.

Simply insert this cylindrical unit into the discharge nozzle. Carryover of liquid-rich vapors can be quickly and significantly reduced. MistFix also provides added surface area and increased separating efficiency.

Insert design eliminates the need to cut, weld, and re-pipe a vessel when not feasible. The need to re-certify to ASME is also eliminated.

Additional MistFix specifics are yours free.

AMISTCO Separation Products

23221 Highway 6, Alvin TX 77511

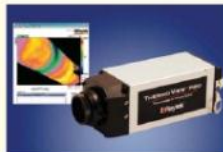
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Coming next month:
NATURAL GAS products,
equipment, services report.
December OG&PE

New enhanced process imager with software

New enhanced **ThermoView Pi20 process imager with DataTemp Pi (DTPi) software** is on the market.



Rugged and easy to operate, the thermal imaging configuration includes two additional cameras, new enclosure, plus C++ software development kit. This combination allows thermal imaging in a wide range of industrial environments.

ThermoView Pi20 is designed for automated monitoring and control of continuous or stationary targets. As a fixed-mount process imager it delivers an automated view of your process. Plant operators can shorten process startup times and lower production line change-over costs, it's said. Paired with the intuitive DTPi software, it minimizes the long learning curve associated with many process imaging systems.

Additional imager, software specifics are yours free.

Raytek

Box 1820, Santa Cruz CA 95061-1820

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ATEX-rated mass flow and pressure devices

An **ATEX approved -X option** is now offered on this line of **mass flow meters, mass flow controllers, and pressure equipment**.



The option is for use in environments where ignitable gases are present. It also makes for easy integration into a wide range of hazardous settings or applications — without sacrificing functionality.

The mass flow devices have 30 user-selectable gas calibrations installed for 20 gases and 10 gas mixes. They also include a NIST traceable calibration and certificate. Complete -X option details are yours free.

Alicat Scientific

7641 North Business Park Drive, Tucson AZ 85743

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Large storage tank fuel recirculating systems

FRS 660-50-UL Automatic Fuel Recirculating Systems are on the market to automatically circulate and clean stored fuel at 50 gpm on a preprogrammed schedule.

The new designs are cited as "ideal for larger fuel storage tanks and also available in a multi-tank version." Housed in a NEMA 4 key-lockable cabinet, they're equipped with alarms to alert pump failure, purifier high water level, system high pressure, and flow switch. As with all this manufacturer's fuel recirculation designs, FRS 660-50-UL uses patented fuel purification technology: no filters or moving parts. They remove 99.9% of water; 98% of normal solid or particulate contaminants found in all diesel fuel.

RCI Technologies Incorporated

462 Borrego Court, Suite D, San Dimas CA 91773

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Scaffolding, access firm forms insulation team, opens facility in Pasadena Texas

An **Insulation Solutions team** has been formed by this scaffolding and access company. It will be based out of a new Pasadena, Texas facility.

The team will provide a variety of insulation services related to heat conservation, cryogenic, personnel protection, sound reduction, steam tracing, blanket fabrication, and Corrosion Under Insulation — along with painting, fireproofing, and refractory services. Complete insulation solutions data are yours free.

Safway Services LLC

N19 W24200 Riverwood Drive, Waukesha WI 53188

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Pedestal-mounted hazardous area lights offered

Magnalight EPL-PM-2X400MH-100 pedestal lights produce 72,000-lumens to illuminate 50,000-sq ft with brilliant white light.

The metal halide designs comprise an easily deployed package. They're easy to carry and set up, plus rated for wet areas and approved for Class 1 Div. 2 hazardous locations.

Models are designed to provide protection in workspace atmospheres where flammable gases and vapors may be present.

They comprise lamp housings of powder coated nonsparking aluminum, 100-ft of SOOW abrasive and oil-resistant cord, and wet area approval rating. The pedestal base provides a secure platform for easy light placement.

The floodlights are light enough for workers to take them up scaffolds or other elevated areas for tank cleaning and preparation, says the manufacturer. Also available are optional configurations to operate with 220 and 480-v ac.

Larson Electronics

9419 East US Highway 175, Kemp TX 75143

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