

ENERcorp
SAND SOLUTIONS

Sand Filters / Sand Cyclones / Sand Flowback



ENERCOP OFFERS:

- A fleet of recently built equipment, fabricated in-house and incorporating the latest in sand filtration & well-testing technology;
- Diameters and configurations suitable for various well rates, sand concentrations & more;
- Build-to-suit option;
- A dedicated rental team & experienced managers;
- 24-7 on-call service for installations & field maintenance;
- Training in safe and effective operation, including proper cleanout procedures;
- Flexible terms, including rent-to-own;
- Locations in Northern AB, BC, West & South Texas, Louisiana, North Dakota, Pennsylvania, West Virginia, Ohio, and New Mexico.

ENERCOP CAN BE THERE, FAST.

TRYING TO BRING ON EARLY PRODUCTION, BUT WANT TO AVOID OVER-CAPITALIZING WELL SITES?

Opt for a short-term rental of a high-capacity system to handle flush production, followed by purchase of right-sized equipment for permanent installation.

Have you made an asset purchase and need to bring acquired facilities up to your company's standards?

EnerCorp can be there.





ENERCORP'S FACILITIES

ENERCORP'S FACILITIES ARE STRATEGICALLY SITUATED AND CONFIGURED FOR SUCCESS:

Producing high-quality products incorporating leading-edge technologies, sophisticated design and meticulous quality assurance.

WHATEVER YOUR CHALLENGE, WE HAVE A SOLUTION.

I have very sour wells and a high concentration of H₂S.

A: Add a closed loop blow down to any of our solutions.

Limited capex is available this year.

A: Do a long term rent to own contract.

I don't see a solution in your portfolio that has the right footprint for my leases.

A: We'll custom engineer and build the solution for you.

We don't want to clean out our sand filter manually.

A: Add a EnerCorp blow-down vessel and reduce/eliminate your maintenance time for cleaning.

My requirement for sand management is short term.

A: EnerCorp offers competitive month to month rental contracts that can't be beat.

We're tired of sand carry over from our current "desanders."

A: EnerCorp's patented solutions are true sand filters which capture all the sand. We guarantee it.

We want to build a pad-style or plant desander.

A: We will custom engineer and build a unit that can handle any flowrate.

My operators don't know when to clean out the "desanders."

A: Use our automation and sand monitoring systems to alert your operators of sand build up.

SAND FILTER: DUAL & TRIPLE HORIZONTAL

LEADING FILTRATION PERFORMANCE

Our patented sand filter systems offer unmatched industry- leading filtration performance and a comprehensive line-up.

EnerCorp filters are suitable for service in North America’s highest pressure, highest rate unconventional wells, truly capturing all of your sand.



SAND FILTER DUAL HORIZONTAL & TRIPLE HORIZONTAL

Application: 100% sand capture with high flowrates.

KEY SPECIFICATIONS

Max Pressure

5,000 psi

Max Temperature

400°F

Configurations

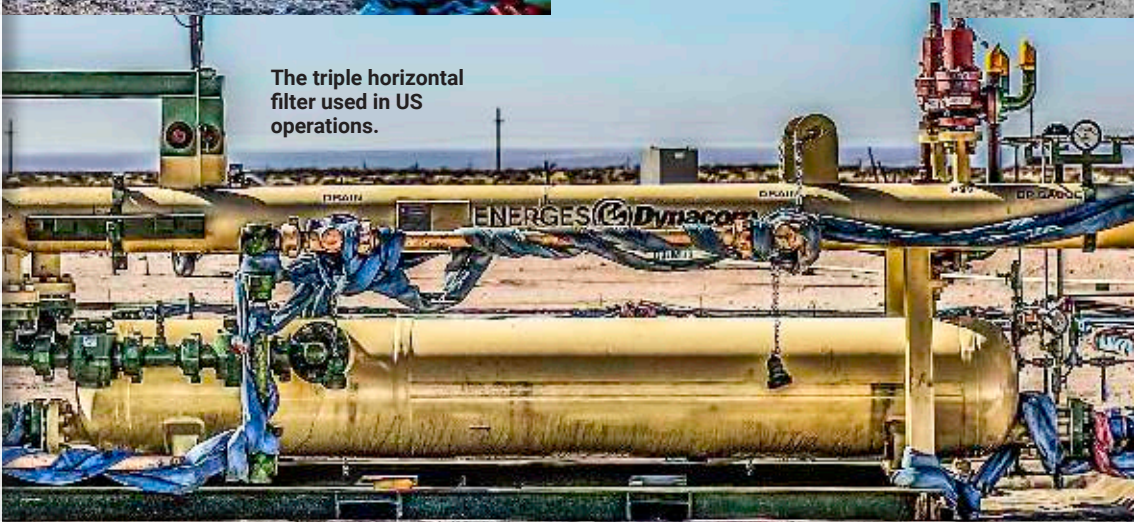
Single hz., dual hz., triple hz., hydrate breaker and blow-down vessel where required.

Chamber Diameters

Custom-manufactured to meet flow parameters

H2S-Capable

Yes



SAND FILTER Dual Horizontal | Triple Horizontal

Depend on EnerCorp’s industry-leading sand filtration equipment to get all the sand out of your hydrocarbon production stream.

Our range of configurations and sizes enables us to serve any production stream and commodity mix across North America. That includes the highest-pressure, highest-rate unconventional wells operating at up to 5,000 psi and 400°F.



TRIPLE HORIZONTAL SAND FILTER

The Triple H provides operators the ability to always filter through continuous flow without bypassing or shutting in the well.

The clean out features are efficient and seamless for operations and give E&P’s the peace of mind that no sand will cary past our device to their production facilities.

WE ARE SAND FILTRATION SPECIALISTS.

EnerCorp’s unique approach to desanding includes:

- Patented technology;
- Multiple functional innovations;
- Thoroughly engineered and field-proven designs;
- High-quality in-house manufacturing; and
- User-friendly automation.

Sand filtration is critical for protecting the physical integrity of your surface infrastructure.

Uncontrolled sand flow can wash out a control or ESD valve within minutes, while chronic sand carry-over gradually erodes downstream equipment. The risks are serious – including explosion and fire – and the potential costs are high.

THROUGH DIFFERENT FILTER SIZING, ENERCORP ACHIEVES SAND REMOVAL EFFICIENCY AS LOW AS 50 MICRONS

This is a performance leap over traditional sand separators or “desanders”, which consist purely of velocity knockout and allow fines and slugs to pass through. And yet EnerCorp’s superior solution is less costly than competing products.



SAND CYCLONE: DUAL CYCLONIC

HIGH-EFFICIENT SAND CAPTURE IN HIGH FLOW RATES WITH PARAFFINS, IRON SULPHIDES, ASPHALTENES AND HYDRATES.

EnerCorp's high-efficient dual cyclone provides great sand management for production and initial flow back with high volumes.

SAND CYCLONE DUAL CYCLONIC

KEY SPECIFICATIONS

- Max Pressure**
15,000 psi
- Max Temperature**
400°F
- Chamber Diameters**
Custom-manufactured to meet flow parameters
- H2S-Capable**
Yes

Dual cyclonic
with 15,000 psi
max. pressure.

SAND CYCLONE Dual Cyclonic

EnerCorp's dual cyclone technology is innovative and patented.

The best in the O&G industry:

- Innovative and patented designs;
- Process is dual cyclone technology – cyclonic inserts are interchangeable;
- Cyclonic inserts sized for your specific well flow data;
- Iron sulphides, paraffins, wax is kept in cyclonic suspension inside the vessel – no internal parts to plug off or pull for cleaning



ENERCORP'S CYCLONE CAN BE LINKED WITH SAND MONITORING SOFTWARE AND IMPLEMENTED INTO PRODUCERS' SCADA.

Our Scale and UT system allows operators to know when the cyclone is filling, full and when to clean it out with a simple dump operation.

EnerCorp is the leader in sand management and in conjunction with strategic partners has developed the most efficient two-stage cyclone in the market.

Our dual cyclonic sand separators are equipped with early warning detection and monitoring systems, which provide completions & production engineers with the most accurate well performance data available. Provides operators real time information to optimize blow-down schedules.

SAND HYBRID: SCREEN + CYCLONE

OUR HYBRID SOLUTION CAN BE PACKAGED AS ONE TOTAL SAND MANAGEMENT SYSTEM, WHICH NO COMPANY HAS DONE BEFORE.

- EnerCorp’s hybrid solution allows producers to use one product for multiple flow conditions.
- EnerCorp is the leader in sand management and has the ability to manufacture a filtration and cyclone skid in one vessel, then use it as a filter or a cyclone.
- EnerCorp’s manufacturing capabilities allow previous vertical filter clients to retrofit existing units into cyclone units as changes in flow conditions arise.

SAND HYBRID SCREEN + CYCLONE

High efficient cyclone desanding for wells with paraffins, asphaltenes and hydrates. Patented filter screen for 100% sand filtration when needed.

KEY SPECIFICATIONS

Max Pressure

5,000 psi

Max Temperature

400°F

Chamber Diameters

Custom-manufactured to meet flow parameters

H2S-Capable

Yes



Sand hybrid
combo units
on pad.

Sand Filter

- Provides both knock-out and true filtration
- Can be combined with blow-down vessel
- Removes all the sand
- Eliminates both short term / acute risks of gradual erosion
- Can be paired with automation for dumping, well control and differential pressure shut down



Cyclone

- Innovative and patented design
- Process is dual cyclone technology – cyclonic inserts are interchangeable
- Cyclonic inserts sized for your specific well flow data
- Iron sulphides, paraffins, wax is kept in cyclonic suspension inside the vessel, no internal parts to plug off or pull for cleaning.



SAND FLOWBACK: TEST SEPARATORS

ENERCOP'S TEST SEPARATORS DELIVER THE BEST-IN-CLASS FLUID AND SAND SEPARATION.

The EnerCorp Sand Flowback Test Separator range is designed to cover all of the scenarios that customers may encounter while flowing high volumes of fluid and sand. EnerCorp Separators are uniquely designed and equipped with state of the art instrumentation, as well as conventional instrumentation, to elevate efficiency, safety, and versatility.

ENERCOP SEPARATORS ARE DESIGNED TO ELEVATE EFFICIENCY, SAFETY, AND VERSATILITY

ENERCOP'S PRESSURE CONTROL MANIFOLDS ARE DESIGNED TO DELIVER

EnerCorp's heavy-duty, double barrier (double block and bleed) choke systems provides safety and operational efficiency when working with the dangers of high pressure.



SECURE CONTROL

SEPARATION INNOVATION

Sand Flowback Test Separators range from 650 psi – 1440 psi and are 4-phase with solids handling components on inlet for knockout & easy, effective solids flushing. All separators are equipped with dedicated Hi/Lo level ports for process safety instrumentation and automation. Enhanced separation equipment employing hydrocyclone technology to enhance solid, liquid, gas separation and demulsification.

QUICK RESPONSE MOBILITY

Applications:

- Sand Retention During Flowback
- Production Well Testing
- Early Production Facilities
- Arctic Environments
- H2S Environments



KEY SPECIFICATIONS

- Enhanced Process Safety Systems
- Remote Surveillance Ready
- Strainers on All Meters
- Closed System Relief
- Triple Relief Devices
- Level Switch Protection
- Over-sized Drains
- Vortex Breakers
- Easy Clean Sight Glass
- Incorporates 1/8" Corrosion Allowance
- Vessel is ASME Section VIII Div 1
- NACE MR 0175 Construction
- Low Emission Instrumentation
- Ample Sampling Points

Sand flowback test separators.

HEAD OFFICES



USA

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The Woodlands, TX 77386
Phone: 1-800-654-6026



CANADA

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THE LEADER IN INNOVATIVE DESANDING SOLUTIONS

EnerCorp guarantees to capture and clean
up your 100 Mesh Frac Sand with 99%
efficient Wellhead Desanding Devices.

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Innovative Desanding Solutions