

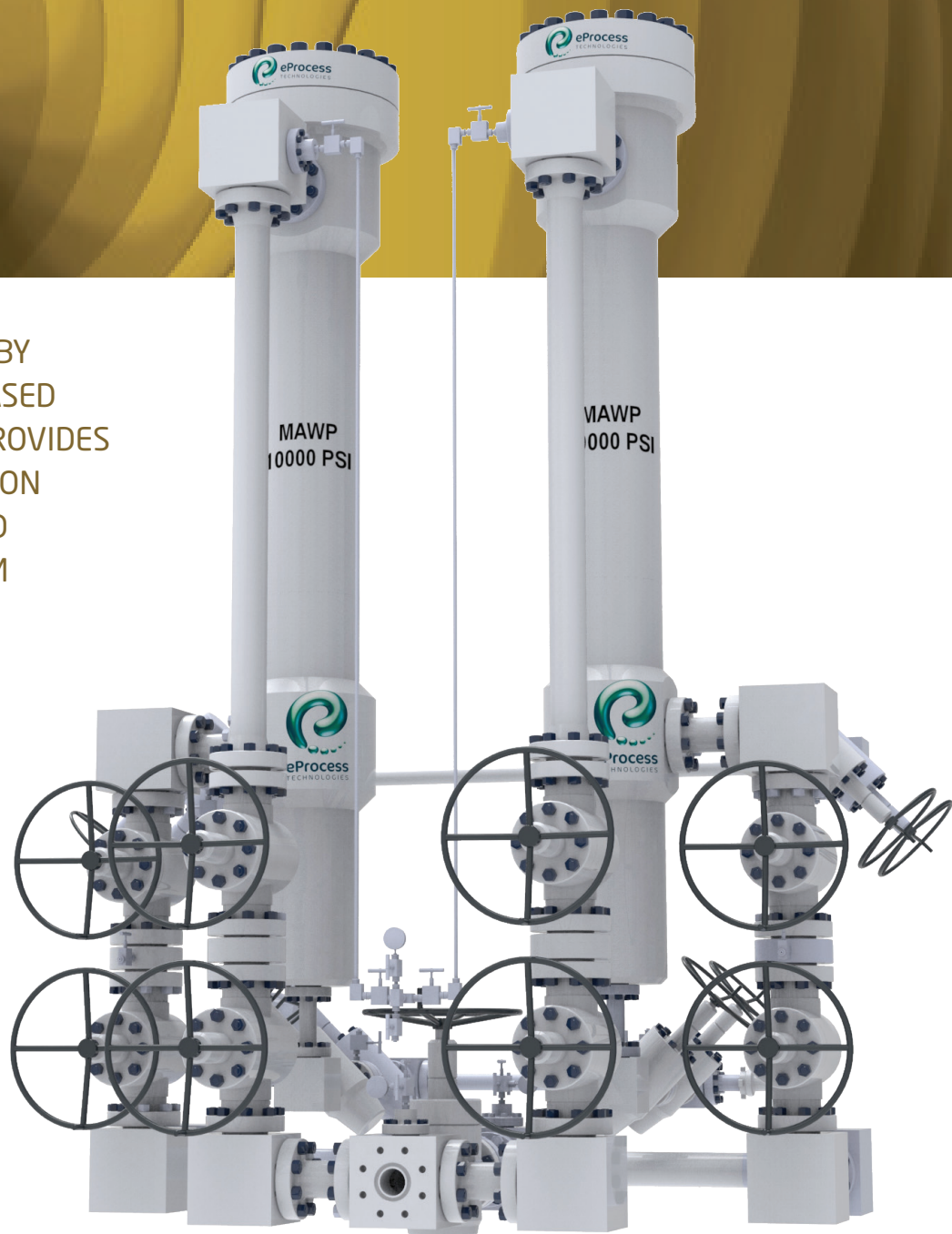
DUAL POT SAND FILTER

Solids Separation and Treatment

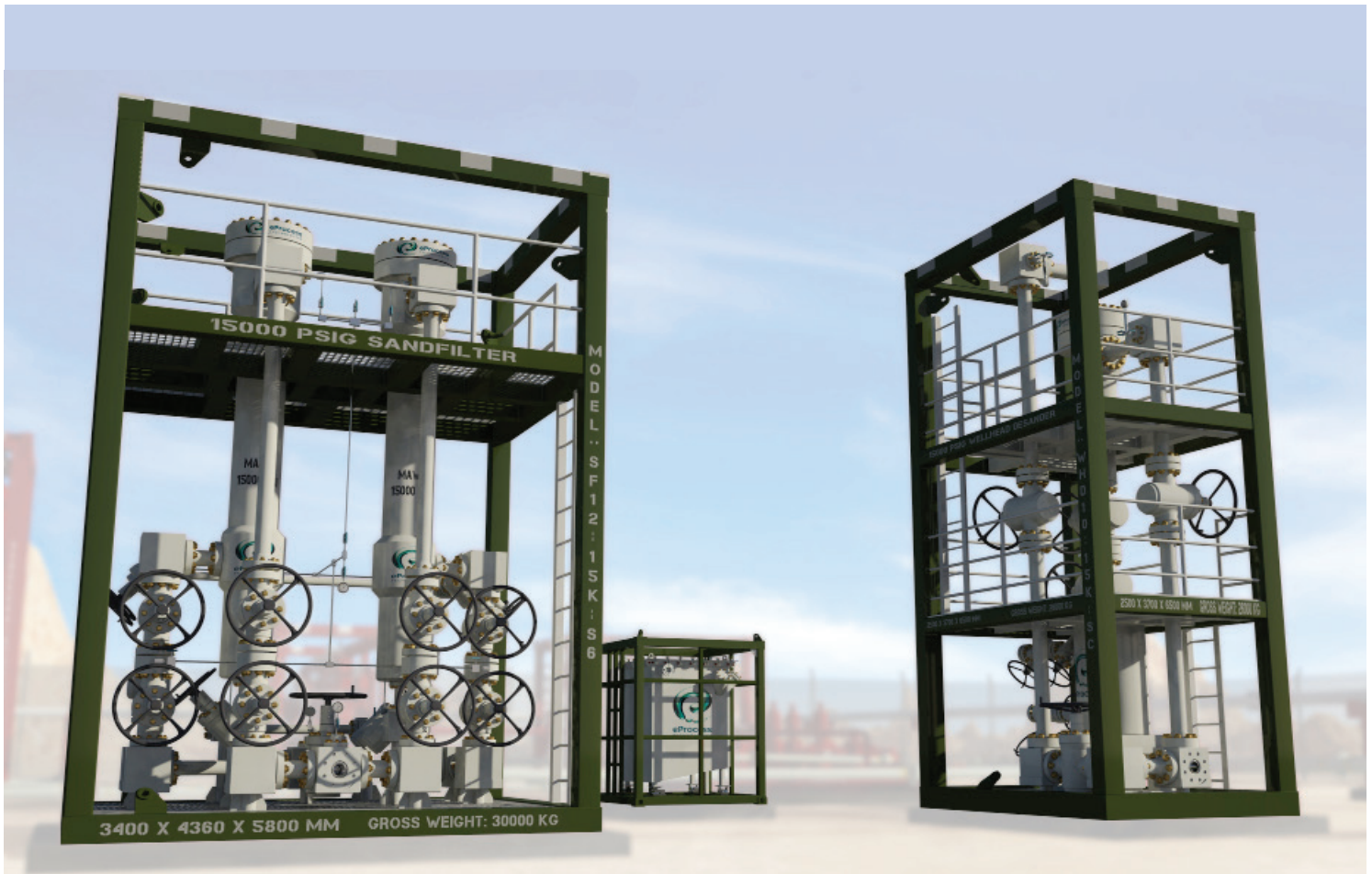
A DUAL POT SAND FILTER BY ePROCESS IS A SCREEN BASED PROCESS SYSTEM THAT PROVIDES A COST EFFECTIVE SOLUTION FOR THE SEPARATION AND REMOVAL OF SOLIDS FROM MULTI-PHASE FLUIDS.

eProcess Dual Pot Sand Filters are pressure drop independent, where solids laden multi-phase fluids pass through a screen causing the solids and fluids to separate. The solids accumulate and are stored in the hold up section of the filter vessel and when full, is isolated, and bypassed for solids removal.

The solids are then flushed from the system by a series of valves and pipework. Once all the solids are purged, the filter vessel is brought back into production.



DUAL POT SAND FILTER



Production of sand and solids from oil and gas wells is an ongoing issue for drilling activities and processing facilities. It is often caused by unconsolidated reservoirs, high production rates, or the failure of gravel packs and other sand control measures.

Detrimental effects of sand production include mechanical damage and erosion to chokes, flow lines, control valves, pumps and other equipment; decreased equipment capacity due to reduced residence time; partial blockage of pipelines, and high environmental discharge costs.

Solids handling is an increasingly important task, and an efficient process dealing with the problem needs to address the effective removal of all solids from multiphase flows, upstream or downstream of the choke.

APPLICATIONS

- Wellstream Sand removal;
- Well Test Cleanup;
- Coiled Tubing Cleanup;
- Underbalanced Drilling Operations.

BENEFITS

- No moving parts, low maintenance and reduced downtime result in significant capital and operating cost savings;
- Activates oil and gas wells previously shut-in due to excessive sand production;
- Eliminates solids erosion on downstream pipework, valves, chokes, and process vessels;
- Provides solids removal prior to oil contamination and eliminates sludge formation and other difficult solids accumulation problems.

OPERATIONS

- Pot Filters are available in many sizes; typically separating particles in the 200 microns range and larger;
- Operating pressure drop requirements vary from 1.0 to 60 psi, with the larger units handling solids volumes of up to 30%.