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DFE Sludge Recovery Unit



- The entire electrical system is engineered and certified to IECEx hazardous area standards which is currently the highest standard in the land. It is superior and more stringent than UL, FM or CSA certification and inspected by independent 3rd party electrical engineer verifying the same - a full electrical certification is provided as part of the system deliverables.
- Process is continuous
- Process capabilities vary depending on oil sludge being processed but typically you can expect rates of between 1 to 3 BBL per minute. Higher rates can be achieved utilising larger centrifuge equipment up to an estimated maximum of 8 BBL's. Larger processing systems could be engineered on request

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DFE Sludge Recovery Unit



Basic process description as follows:

- Sludge is pumped into the system via a twin pod basket filter to remove and rubbish and debris that may interfere with the system performance. This is a dual pod filter so while once side of the filter is being emptied the process continues through the second pod.
- The filtered sludge then falls into the 1st of 3 steam or immersion heated tanks and the sludge temperature is raised through a PLC control system.
- Once the fluid is at temperature a thinner or cutter is added to further reduce the viscosity of the oil sludge to maximise solid separation.
- The treated fluid is then pumped over a fine screen vibrating high G shaker to remove solids larger than 150 to 200 micron. The solids are captured in the appropriate receptacle
- The cleaned fluid then passes into a second tank where the elevated temperature is maintained
- The fluid is then pumped through a high G centrifuge centrifuge to remove solids down to approximately 2 to 5 micron and stored in the 3rd heated tank before pumping off to its next destination generally back into the refinery processing stream.

All of the above is carried out a single tank skid and is full alarmed to prevent overheating, overfilling.

