MWS DRYSOL

Energy Efficient Packaged Drying Solution for Sludge and Slurries

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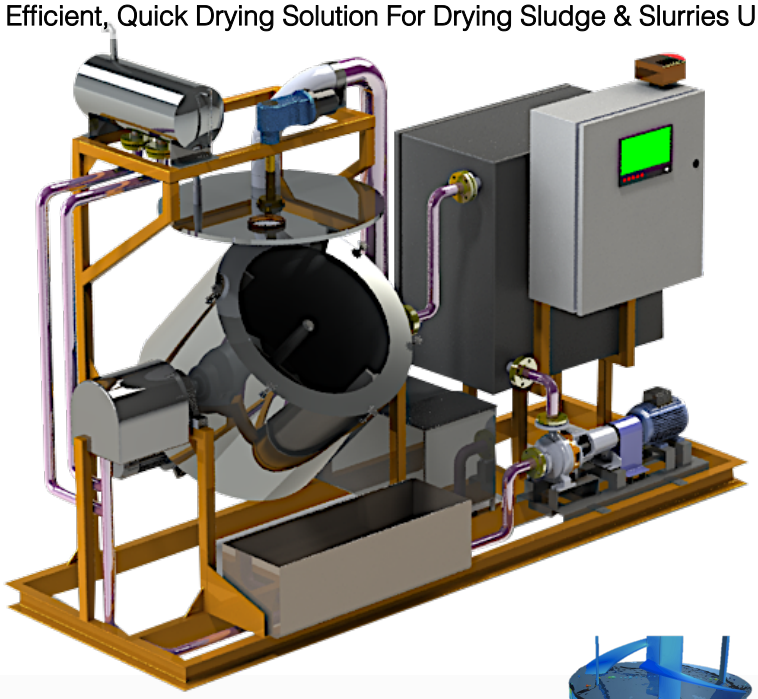
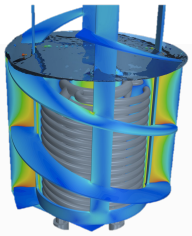
MWS DRYSOL
General Specifications

MWS DRYSOL –Energy Efficient, Quick Drying Solution For Drying Sludge & Slurries Upto 90% Dry Solids





- Skid-mounted packaged ready-to-use sludge dryer with small footprint
- Electric-closed loop thermic oil heat transfer for quickest drying
- Engineered drying vessel with optimal shape and heat transfer area
- High heated surface area in a small footprint
- Multi-axes agitator for low-rpm, high-torque homogenous drying of toughest sludge
- Integrated exhaust with condensing for water recovery & use
- Sprinkler-ring inside for self-cleaning of drying vessel from recovered condensate
- Auto-slurry feed and level control for optimal drying sequence
- Remotely accessible for batch data logging & preventive maintenance

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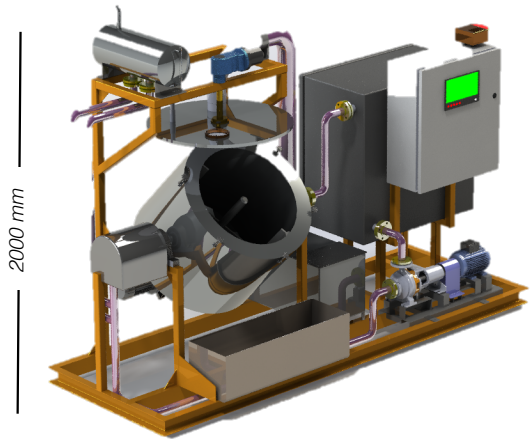
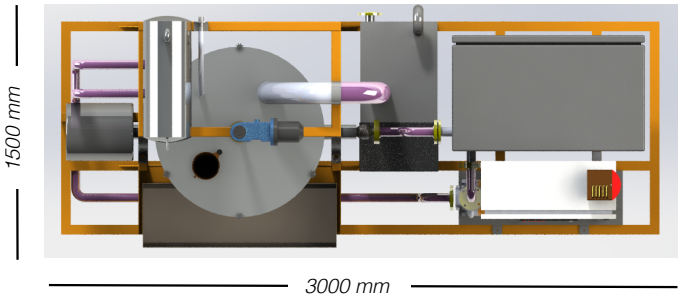
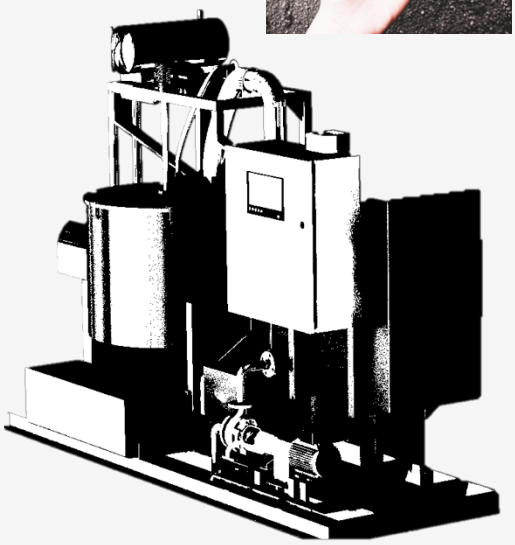




SS316 Chemical-Resistant Construction
Higher alloys available for more corrosive applications

Model No.	Wet Sludge (Kilograms Per Day)	Power Consumption (kWh Per Day)
DS200E	200	80
DS400E	400	130
DS600E	600	180
DS800E	800	250
DS1000E	1000	380
DS1500E	1500	400
DS2000E	2000	510

MWS DRYSOL is an advanced packaged sludge and slurry drying system powered by Artificial Intelligence (AI). The DRYSOL controller auto-detects the sludge/slurry conditions and calculates batch cycle drying time based on ambient conditions, target moisture and other parameters. The holding time, drying time, agitator speed and torque are all determined by an advanced self-learning algorithm to ensure most optimum drying.



Salient features include:

- Auto-lid lifting, vessel tilting and sludge discharge
- Micro safety switch to lockout during batch cycle for safety
- Programmable temperature and cycle timer digital display
- High density insulation to ensure drying efficiency >95%
- Self-discharge and self-cleaning by exhaust condensate
- Low-rpm, high-torque mixing system for homogeneous drying

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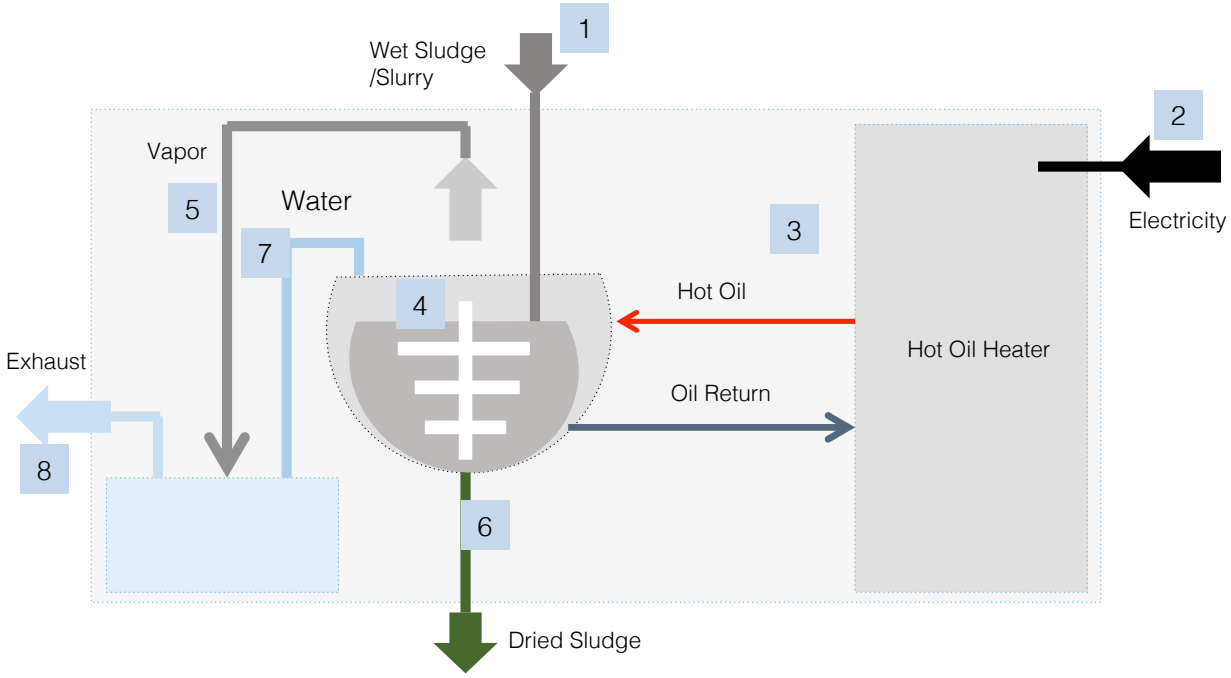
MWS DRYSOL
Operating Principle

MWS DRYSOL is used for dewatering concentrated slurries and sludge to a dry land-fillable condition. The systems is electrically heated and powered by Artificial Intelligence (AI) to ensure most optimal drying



1. The mechanically dewatered sludge or slurry is directly fed into the MWS DRYSOL dryer. The DrySol controller measures temperature and moisture of sludge and determines batch time
2. Electricity is used to heat thermic oil to temperature at more than 95% efficiency as per duty cycle determined by DRYSOL controller
3. Heated thermic oil is pumped into the drier vessel to heat the inside surface by conduction at a flow and temperature determined by DRYSOL controller. Oil has no physical contact with sludge
4. Agitator moves to ensure homogenous heating transfer and vaporization as per duty-cycle and RPM determined by DRYSOL controller based on slurry consistency and target moisture
5. High heat transfer leads to instant vaporization; water vapors are vented through exhaust line and collected to condense in collection tank
6. Upon completion of batch time, the heating stops and dried sludge of desired moisture is automatically discharged in a sludge tray by tilting of vessel and agitator movement
7. Vessel is then cleaned using the water condensed from the vapor and agitator and cleaning water is discharged into drain
8. The exhaust air is fed into the exhaust air treatment

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