



MYCELX RE-GEN Unit

MYCELX Equipment

Specifications

Removal

Capabilities:

Up to 1,000 ppm inlet and 5-50 ppm outlet

Solids Handling

Capabilities:

Removal to 2 microns

Single Vessel

Flow Rate:

**Up to 1,000 GPM/
38,000 BPD Max**

Media Life:

Designed to last 12-24 months depending upon application

Applications:

- Onshore
- Offshore
- High Solids Removal



Level of Maintenance Required:

Backwash cycle is fifteen to twenty minutes with frequency dependent upon inlet loading conditions. Operator controlled or automated units.



MAC and Polisher at Halliburton NM Site

MEDIA USED WITHIN THE RE-GEN

MYCELX Patent Pending RE-GEN Media

The RE-GEN media polymer provides a weaker affinity for the oil, which can be released by the force of the backwash and pushes the droplets towards the top of the RE-GEN unit. The backwash removes oil by reversing the flow direction upwards, loosening the packed media and releasing both solids and oil droplets from the media.

MYCELX RE-GEN Unit

The secondary treatment, MYCELX RE-GEN, was designed to optimize the efficiency of the MYCELX Polishers through the use of a proprietary back washable media. For produced and process water applications, it provides an economically viable treatment option to remove oil and oily coated and suspended solids down to 2 microns.

MYCELX RE-GEN	Walnut Shell / Multi-Media
Oil and particle removal to 2 microns	Oil and particle removal to 10+ microns
Removes free, dispersed and fractions of emulsified oils	Removes free oil and some dispersed oil
Handles 50 - 1,000 ppm	Cannot handle fluctuations in oil loading



Insulated RE-GEN Unit
Left: Front View
Right: Back View



Absorbs Oil Without Absorbing Water



Key Benefits

- Removes oil, solids and oily coated solids in a single step.
- Ability to perform even with viscosity modifiers.
- Regenerable with long life cycle provides low operating cost.
- 1,000 gpm per vessel unless you do multiple trains or horizontal design.