

Hydramix is a combination of two proven efficient technologies into a single process for the removal of hydrocarbons from contaminated waters covering a broad spectrum of contaminating oil particle sizes, unrivalled in conventional oil separation technologies.

Hydramix process

The Hydramix process efficiently removes oil, fat and Grease from contaminated water through specific stages of the process, suited to the application to produce a 99.9 % hydrocarbon removal .

These basic stages being :

Stage 1 – Skimmers are utilized to remove free oil floating on the surface of the contaminated waste water .This being the most cost-effective method utilised in the separation and removal of oil , fat & grease .

- Skimmers remove free oil droplets > 100 micron

Stage 2 – The Hydro Cyclone Separator (Hydraspin) separates oil fat and grease and water with the Hydro cyclone initiating a spinning vortex to force the separation of the lighter Hydrocarbon contaminants

- Hydra spin process removes 95% of 100-10-micron oil droplets

Stage 3 –The Electro Coagulation Technology is able to remove the remaining hydrocarbon contaminants as well as break and separate any Emulsions contained with in the waste water

- The EC system removes 99,9% of 10 -2-micron oil droplets.



The Hydramix process can be tailored to treat client specific hydrocarbon contaminated waste waters .

TYPES OF OIL REMOVED

- Free Oil – Oil droplets < 150 micron.
- Emulsified Oil – Oil droplets < 150 and > 2 micron.
- Dissolved Oil – Oil droplets < 2 micron.
- Solids Coated with Oil – Heavy solids denser than water.

TYPICAL APPLICATIONS

- Produced water.
- Frac water.
- Brine filtration.
- Fire water protection.
- Heat exchanger protection.
- Secondary recovery treatment.
- Tertiary recovery and process.
- Cooling water.

MINING INDUSTRY

- Solvent extraction.
- Mining workshops.
- Wash bay systems.
- Oil storage tank farms .
- Bulk fuel storage facilities.
- Storm water run-off from contaminated areas.
- Process water treatment.
- Desanding. (oil sands)

ADVANTAGES

- Locally Manufactured process
- 30 years experience in Hydrocarbon separation
- Low Capital Cost
- Low maintenance cost
- Simple to operate and a reliable process
- Reduced moisture content solids production
- Easy Installation and expansion
- Small foot print
- Robust process



BENEFITS

- Easily accessible data generation anytime.
- Easy plant monitoring and control ability
- Faster treated water results production .
- Consistent compliant water generation
- Reduces need to store contaminated water .
- Low capital cost.
- Low Operational cost for monitoring programs.
- Versatile in treating varying hydrocarbon loadings

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