TPL PHASE 3 COALESCING TYPE OIL/WATER SEPARATOR

The Phase 3 Oil/Water Separator provides optimum efficiency in gravity separation between two immiscible liquid fractions: water and oil. Traditionally, inclined and horizontal coalescing plates have been used to separate free oil from water, with a second stage needed for finer liquid/liquid separation.

Now a unique module has been engineered to produce two and three phase separations within a compact design that eliminates the need for a second stage of coalescing/separation.

The TPL Phase 3 Coalescing Media Pack contains structured polypropylene tubes as the coalescing media unitized in removable baskets within the Oil/Water Separator. The design of the separator provides uniform, non-clogging flow with excellent dispersed phase distribution and coalescing of oil, especially at lower liquid velocities.

The coalescing media tubes have a large oleophilic surface area that attracts oil droplets which coalesce to form larger oil droplets. According to Stoke's Law, these larger droplets will rise exponentially faster to the surface, providing a rapid increase in phase separation.

FEATURES:

- No pre-treatment
- High efficiency separation due to high surface area coalescing media
- No moving parts (On standard units)
- Easy cleaning
- Minimal maintenance
- All steel vessel construction
- Large solids settling area

Custom designed and fabricated Oil/Water Separators
SOLUTIONS TO LIQUID/LIQUID SEPARATION PROBLEMS

The Phase 3 Oil/Water Separator is fully customizable to suit your needs. GPM flow rates are achievable from 5 GPM to over 1,000 GPM. An optional surge tank can be provided to reduce turbulent flow coming to the separator due to the type of pump being used to feed it. Winterization options, level controls, integrated auxiliary oil collection tanks and pumps, sludge pump out systems, and alarms are available.

APPLICATIONS:

- Aviation
- Chemical Processing
- Machine Tools
- Metal Processing
- Oil Production
- Petrochemical
- Plastics

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### Flow Rate - Gallons Per Minute

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### Vessel Dimensions (Inches)

- Feed Inlet: 1 3/4
- Oil Inlet: 1 3/4
- Water Outlet: 2
- Solids Ports Cleanout: 4

### Fitting Sizes

### Operating Volume (Gallons)

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