

# UNIPACK

## Cross-Fluted Coalescing Media

- Parallel corrugated plates
- Enhances the separation of oil and suspended solids
- Available in polypropylene, stainless steel, PVC, and HPVC
- Available in various sizes ( $\frac{1}{2}$ " spacing,  $\frac{3}{4}$ " spacing and  $1\frac{1}{4}$ " spacing)



Hydro Quip's UNIPACK coalescing media is a cross-fluted type media, consisting of parallel corrugated plates. It is specially designed to provide highly efficient liquid/liquid and liquid/solid separation due to its high surface area to volume ratio.

### DESIGN

The oil water separator shall contain oleophilic coalescing media arranged in a configuration that provides a minimum of 31–69 sq. ft. of oil coalescing surface and 7–17 sq. ft. of solids settling area per cubic foot of media. Plate spacing is available in  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and  $1\frac{1}{4}$ ".

### FLOW

Flow through the pack shall be sinusoidal to induce oil droplet impingement on the plate surfaces. Maintain laminar flow (i.e. Reynolds number of less than 500) at maximum design flow rate throughout plate packs including entrance and exit so as to prevent re-entrainment of oil(s) with water.

Coalesced oil shall flow unimpeded along the plate surface to the top of the separation chamber where it is automatically decanted.

### PLATES

The coalescing media plates shall be installed in a vertical position and be supplied in 1' x 1' x Length blocks for ease of installation and removal. Each plate shall have a series of angled ribs, which are sloped from the bottom of the separation chamber to the top at a 60° angle establishing a compound inclined surface.

Vertical slant rib plates can be spaced  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and  $1\frac{1}{4}$ " apart with the slanted ribs alternating

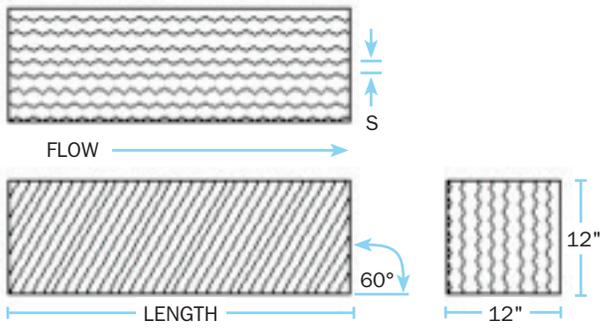
direction by 90°. This configuration induces the oil droplet impingement on the oil coalescing surface for maximum removal efficiency.

Separated oil flows to the top of the separation chamber on the underside of each rib while settled solids slide into the sludge chamber on the top surface of each rib.

### OPTIONAL FRAME ASSEMBLY

Stainless steel frame assembly can be provided for ease of removal.

## DIMENSIONAL INFORMATION



		Spacing (S)		
		1/2"	3/4"	1 1/4"
CA	Coalescing Area	69	48	31
SA	Settling Area	17	10	7
P	Plates per 12" Module	26	16	10



Whether an off-the-shelf unit or customized equipment, we'll help you determine the best solution for your application and site-specific needs.

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