PAN AMERICA ENVIRONMENTAL, INC.

Oil Separation Media

Coalescing Media Systems
Flow rates 5 through 250,000 GPM

Pan America's coalescing media systems feature a variety of media types to provide high performance oils and fuels separation in compact, high surface area designs used in cross-flow applications.

The Coalescing Media models are:
- Flopak
- HDQ Pak
- Retpak
- TPi Plate Pack
- CPI pack

Our corrugated cross-fluted coalescing medias are designed to remove non-emulsified, free & dispersed oils and fuels from water.

Flopak & HDQ Pak are a standard choice for high performance oil water separators and are offered for replacement or retrofitting of existing separator tanks as well as new tanks to improve performance and increase flow rates.
Our media meets EPA Method 1664 Revision A and European Standard EN 858-1 (99.99% removal of free oil)

Typical, regular performance is in the 3-10 mg/L 20-or-30-micron droplet range depending on waste stream characteristics.
Removal efficiencies have been <1 mg/L and as low as non-detect.

Pan America Environmental can provide review of your existing tank to replace existing media or engineer the fitting of Flopak into a tank for the first time via modifications to optimize tank design for the best oil separation environment

Retpak Media

Our Retpak secondary coalescing media can be provided to give a high-density surface area in a small cubic area by itself, in addition to your existing media or in conjunction with Flopak to increase smaller droplet capture.

Features Include:

- Cross-corrugated surface design
- High surface area per Ft3
- Long lasting plastic & metal construction
- Solids settling/clearing design
- Numerous droplet impact sites
- Numerous changes of flow direction
- Space efficient design
- HDQ grid design

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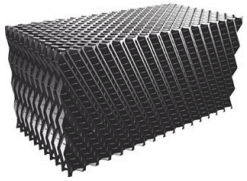

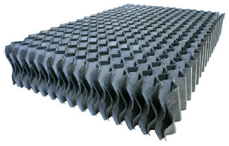

Model	FP-PV	FP-PP	FP-GCP	FP-SS	HDQ Pak	TPi	RetPak
Material	PVC	Polypropylene	Glass Coupled PP	304/316 SS	Polypropylene	FRP/SS/Galv	Urethane Polyester/Ether
Design	Corrugated	Corrugated	Corrugated	Corrugated	Grid	Corrugated Plate	Reticulated Foam
Plate Spacing	1/4", 1/2", 3/4", 1.2"	1/2" / 3/4"	3/4"	1/2", 3/4"	1/4"	1/2", 3/4", 1", 1.5", 2"	10 ppi
Corrugation angle	60°	60°	60°	60°		45° / 55° / 60°	N/A
Ft2 per Ft3	113/ 69 / 48 / 31	69 / 48 / 31	48	69 / 48	132		175
Ft2 /Ft3 projected						Based on angle	
Temp Max °F/C	140° / 60°	185° / 85°	200° / 93°	No Limit	200° / 93°	190° / 88°	200°
Dimensions							
Length (Ft)	2', 3', 4', 5', 6'	2', 3', 4', 5', 6'	3'	2', 4', 6'	1'	4'-5"	6"
Width (Ft)	1'	1'	2'	1'	1'	3'-8"	48"
Height (Ft)	1'	1'	0.5'	1'	1'	3'	120"
Notes	2'L & 4'L stocked in 1/2" and 3/4"	2'L & 4'L stocked in 1/2" and 3/4"	Custom order	Custom order	From stock	Includes SS frame Dims variable	Dims customizable Ether stocked

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Solids and Coalescing Media

One of the most common problems for all corrugated coalescing media are solids. The closer the media surfaces are to each other the greater the likelihood of coating or plugging.

Different solids pose different issues

Solids type and concentration can be a problem. To limit the possible plugging issues, we size the media plate spacing to the solids. The Flopak media is offered in ½", ¾" and 1.2" plate spacing.

We take into consideration the following when reviewing for solids:

Solids type, particle size & characteristics:
- Clay
- Sand/gravel
- Soil (dirt)
- Free or oxidized calcium/iron
- Oily/dirt combinations/potential viscosity & "stickiness" characteristics
- Crude oils: Paraffinic, asphaltic & mixed base

Loading (concentration)
- Light (50-100 mg/L)
- Moderate (100-300 mg/L)
- Heavy (300 + mg/L)

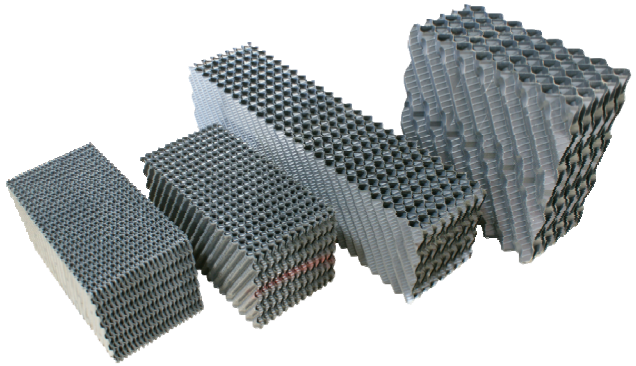
If the solids type(s), size and concentration are excessive or are known to be troublesome pretreatment may be required to reduce the loading prior to the oil water separator.

The pretreatment can consist of screening, grit chambers, settling basin/chamber, filtration or other technologies that fit the application best.

High solids can coat, accumulate and eventually plug the media plate spaces.

Our corrugated TPi wave plate packs are an excellent choice for high solids & oils applications.

TPi Plate Pack



Flopak Media

Flopak Media 1.2" plate spacing

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