



HD Q-PAC Revolutionary Coalescing Media

- Meets EPA Method 1664 and European Standard EN- 858
- For the separation of 20 micron oil with little suspended solids present
- Only available in polypropylene
- 132 ft² per 1ft³ of surface area
- Meets a discharge limit of 5ppm



Different from traditional corrugated and inclined plate coalescing media, HD Q-PAC offers the highest effective coalescing surface of any media on the marketplace. With all rounded elements, the entire surface area is available to support oil droplet coalescence. This eliminates the need for second-stage polishing to achieve oil removal.

SPECIFICATIONS

The oil water separator's separation chamber shall contain HD Q-PAC coalescing media, having a minimum of 132 ft²/ft³ (423 m²/m³) of effective coalescing surface.

Much of the surface shall be in the form of parallel rods that can be oriented perpendicular to the horizontal or longitudinal axis of the separator, creating an angle of repose of 90° to facilitate the removal of solids that might otherwise obstruct passageways and increase velocities to the point of discharging an unacceptable effluent. The rods shall be spaced

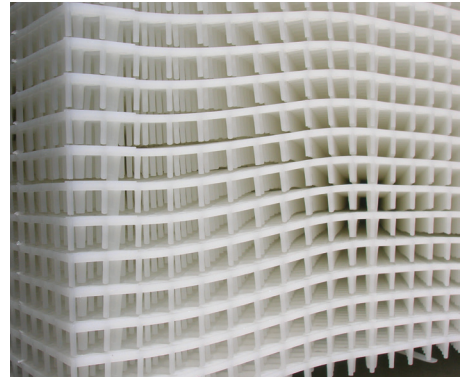
3/16" apart for removal of at least 99.9% of free oil droplets 20 microns or greater in size. Laminar flow, with a Reynolds Number of less than 500 at maximum flow rate, shall be maintained throughout the separator packed bed including exit and entrance so as to prevent any re-entrainment of oils with the water.

Flow through the polypropylene coalescing media shall be crossflow perpendicular to the vertical media elements such that all 132 ft²/ft³ of coalescing media is available for contact with rising free oils.

None of the coalescing surfaces shall be pointing upward so as not to be available for contact with the rising oil droplets in the crossflowing oily water.

The media shall have a minimum of 87% void volume to facilitate removal of sludge and dirt particles as they fall off the vertical elements and settle in the sludge collection compartment of the oil water separator.

When installed in a crossflow oil water separator, the media shall meet US EPA Method 1664 Revision A and also European Standard EN 858-1 for oil water separators.



Physical Data

Material:	Polypropylene
Specific Surface Area:	132 ft ² /ft ³ (433 m ² /m ³)
Bulk Density:	7.5 lb/ft ³ (120 kg/m ³)
Void Fraction:	87%
Smallest Grid Opening:	0.16" x 0.16"
Standard Module Size:	12" x 12" x 12" (305mm x 305mm x 305mm)
Operating Flow Rates:	1–12 gpm/ft ² (530 L/m ² -min)
Temperature Limit:	200°F (93°C)

EN 858-1 TEST

HD Q-PAC fulfills the European Union's EN 858-1 Test Method for Class I Coalescing Separators

EN 858-1 Test Procedure

Light Liquid:	density 0.85 g/cm ³ *
Water Quality:	potable or purified surface water
Solubility of Light Liquid:	nil, unsaponifiable
Water Turn Over:	minimum of four volumes of test unit
Liquid Flux:	25–40 m ³ /hr-m ² (10–15 gpm/ft ²)
Maximum Residual Light Liquid:	5 mg/L**

Results using HD Q-PAC at Danish Institute of Technology

Depth HD Q-PAC:	610 mm (24 inches)
Inlet Oil Concentration:	4250 mg/L
Liquid Flux:	31.1 m ³ /hr-m ² (12.7 gpm/ft ²)
Outlet Oil Concentration:	0.98 mg/L***
Oil Droplets > 20μ:	none observed

* Fuel oil, per ISO 8217, designation ISO-F-DMA

** Hydrocarbon content analysis with prescribed Infrared Spectroscopy procedure.

*** Average of five repetitions, data range 0.9–1.1 mg/L



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

TEL: 508-399-5771

FAX: 508-399-5352

108 Pond St, Seekonk, MA 02703

hqisales@hydroquipinc.com

www.hydroquipinc.com