



Model  
OSF

**OSF**

Fiberglass Oil Water Separator  
Systems 1 - 50 GPM

**The OSF Series oil water separators are designed to remove oils and fuels from a wide variety of wastestreams where a variety of petroleum products mix with waterstreams.**

The OSF Series, fiberglass oil water separators are a gravity/coalescing design for removal of free and finely dispersed oil droplets from various wastestreams.

The use of our proprietary Flopak, cross-corrugated, oleophilic coalescing media provides predictable oil removal through impingement coalescence while allowing solids settling without plugging.

Performance: 10 mg/L 30 micron free, dispersed and non-emulsified oil droplets.

The OS fiberglass design is one of 8 different oil water separator designs from Pan America Environmental that can be used singularly or in combination with other treatment processes such as emulsion cracking, DAF & clarifier pretreatment.

Full, turnkey stationary or mobile systems can be provided with many options and custom configurations can be provided tailored to the particular project requirements or wastestream needs.

5 OSF separator sizes are offered.

**Features:**

- ◆ Fiberglass construction
- ◆ Flopak coalescing media
- ◆ Adjustable oil skimmer
- ◆ Solids V-hopper
- ◆ Influent diffuser
- ◆ Sealed/gasketed cover
- ◆ Quick remove cover hardware
- ◆ Oil reservoir
- ◆ Water weir
- ◆ High performance
- ◆ Compact, simple design

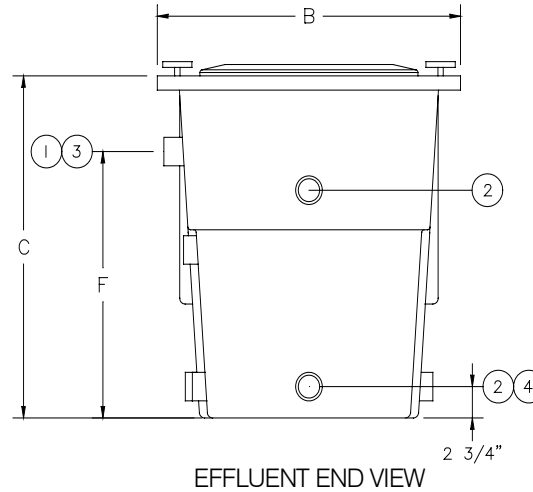
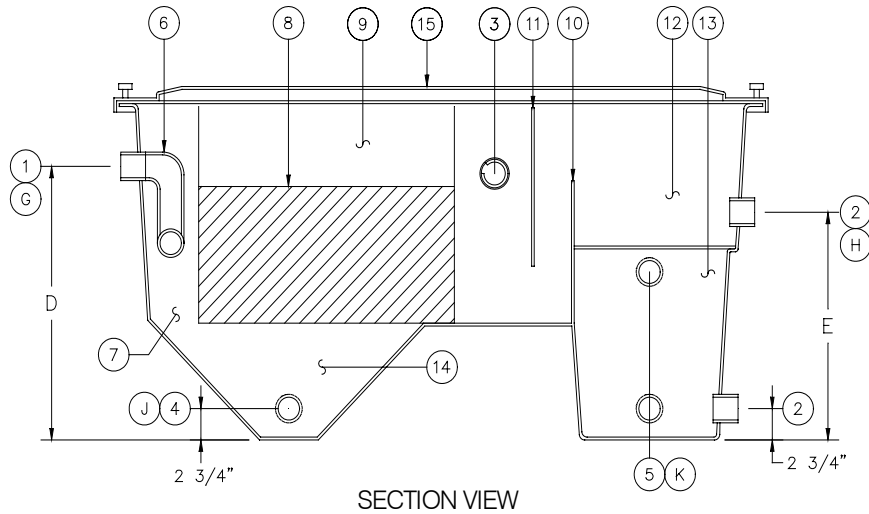
**Typical applications:**

- ◆ Groundwater remediation
- ◆ Mobile separation system
- ◆ DAF/Clarifier pretreatment
- ◆ Power plant water treatment
- ◆ Refinery process water
- ◆ Aircraft wash racks
- ◆ Retrofit existing systems
- ◆ Tank farm leakage treatment
- ◆ Vehicle washwater treatment
- ◆ R.O. Filter pre-treatment
- ◆ Oil spill recovery
- ◆ Trench water treatment
- ◆ Bilge water treatment
- ◆ Hydraulic fluid tank de-watering



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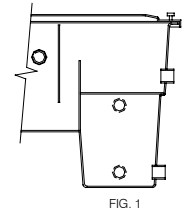
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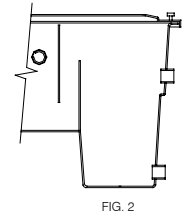
For larger flow rates see our OS Series steel separators

**Available Tank Configurations**

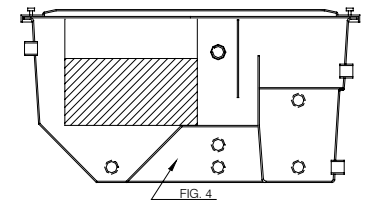
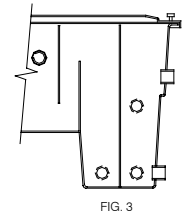
Standard tank configuration



Expanded effluent chamber



Vertically split effluent/oil chambers



Secondary oil or water reservoir

Model	Dimensions			Elevations			Fitting Sizes					Weight (Lbs)		Media Ft <sup>2</sup>	Tank Vol. Gal.	Effluent Vol. Gal.	Oil Vol. Gal.	Sludge Gal.	GPM
	A	B	C	D	E	F	G	H	I	J	K	Dry	Full						
OS2F	5'-2"	1'-5"	2'-7"	2'-0"	1'-8"	1'-11"	2"	2"	2"	2"	2"	120	483	136	25	4	8	7	5
OS4F	5'-2"	2'-5"	2'-7"	2'-0"	1'-8"	1'-11"	2"	2"	2"	2"	2"	145	980	272	51	10	25	13	10
OS8F	6'-0"	2'-5"	3'-7"	3'-0"	2'-4"	3'-0"	2"	2"	2"	2"	2"	190	1810	544	125	15	40	13	25
OS12F	6'-0"	3'-4"	3'-7"	3'-0"	2'-4"	3'-0"	3"	3"	3"	2"	2"	375	2795	816	180	25	60	25	35
OS16F	6'-0"	4'-4"	3'-7"	3'-0"	2'-4"	3'-0"	3"	3"	3"	2"	2"	460	3730	1088	240	35	80	37	50

Item	QTY	Description	Item	QTY	Description	Item	QTY	Description	Item	QTY	Description	Item	QTY	Description
1	1	Inlet	4	2	Sludge Out	7	1	Inlet Chamber	10	1	Water Weir	13	1	Oil Storage
2	2	Outlet	5	2	Oil Outlet	8	1	Flopak Media	11	1	Oil Baffle	14	1	Sludge Hopper
3	1	Oil Outlet	6	1	Inlet Diffuser	9	1	Sep. Chamber	12	1	Outlet Chamber	15	1	Cover



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## Oil Water Separator Options Descriptions

**Influent Feed System** Air operated, diaphragm pump with air controls or progressive cavity pump, sump level switches & Nema 4 control panel, base mounted, 115/230/460V power offered. Electric diaphragm pumps available.

**Effluent Pumpout** Centrifugal pump with level switches & Nema 4 control panel, base mounted, 115/230/460V power offered. OS Effluent chamber must be expanded to accommodate pumpout or provision of an external pumpout tank.

**Sludge Pumpout System** Air operated, diaphragm pump with air controls & Nema 4 control panel, auto on/off timer, base mounted, 115V/1ph/60Hz power req'd. Progressive cavity pump system also available. 1 - 100 GPM.

**Oil Pumpout System** Air operated, diaphragm pump with air controls, level switches & Nema 4 control panel, base mounted, 115V/1ph/60Hz power req'd. Electric gear or progressive pump systems available. 1 - 100 GPM (larger if required)

**Anchor Brackets** L-brackets are provided bonded to the tank for bolting the tank to your mounting surface.

**Freeze Protection** Immersion heaters mounted through tank wall. Each heater has an independent thermocouple well, 0-100 deg. F thermostat and Nema 1 (or optional Nema 4) housing. 230/460V/3ph/60Hz power req'd.

**Retpak Secondary Coalescer** High surface area, reticulated, secondary coalescing media for polishing flow after standard Flopak media.

**Oil Sight Glass** Two automatic, brass valves with tempered sight glass and protection rods mounted in oil reservoir. If glass is broken check ball stops outflow from reservoir.

**External Sight / Level Glass** An externally mounted clear PVC sight tube is provided with multi-point level switch for indication or pump control of oil or water. Switch is removable for cleaning and inspection.

**Elevation Stand** Epoxy coated steel stand or legs to elevate tank to desired level. Standard deck height is 30".

Full platforms & walkways with ladders or stairways can be designed where required or desired.

**High Temperature Design** Flopak coalescing media and any piping is constructed of a combination of CPVC &/or polypropylene (or other materials) for temperature resistance up to 200° F.

**Alternate Media Construction** Standard Flopak media is PVC. HPVC, polypropylene, glass-coupled polypropylene and 304/316 stainless media is available. Contact PAE to determine proper media type for your application. Media plate spacing is available in 1/2", 3/4" & 1.2".

**External Storage/Feed Tanks** A wide variety of tank volumes can be supplied for your water, product and sludge holding needs. Flat bottom and cone bottom designs constructed in polyethylene, fiberglass, steel & stainless steel can be provided.

**Effluent Filter Systems** Solids filter systems can be provided to remove filterable solids from the separator effluent. Contact Pan America to determine proper filtration needs for your application.

**AQAM Filter Systems** AQAM (Alkyl Quaternary Ammonium Montmorillonite) filter systems can be provided to remove trace hydrocarbons, sheens, DNAPLs, slightly soluble chlorinated hydrocarbons and high molecular weight organics from the separator effluent. Contact Pan America to determine proper filtration needs for your application. Can be used to protect and increase GAC lifespan.

**Carbon Filtration Systems (GAC)** GAC carbon filters can be provided to remove contaminants after the separator. Contact Pan America to determine proper system needs for your application.

**Emulsion Cracking Systems** Emulsion cracking systems can be provided to remove oil-in-water emulsions prior to the separator. Contact Pan America to determine proper system needs for your application.

**pH Adjustment Systems** pH adjustment systems can be provided to maintain pH levels prior to or after the separator. Contact Pan America to determine proper system needs for your application.

**System Containerization** OS separators with any options can be installed in a 20 or 40' shipping container(s) to simplify system provision and field implementation. System would include the complete mounting, piping and

wiring of the system in one or more container as required by the project.

**Trailer Mounting** OS separators can be mounted on a trailer for system mobilization. Trailer design generally includes corner leveling jacks, bubble levels, walkway, toolbox, electric or hydraulic brakes, piping and wiring of options.

**Field Skid Mounting** OS separator system can be mounted to a mobile skid with leveling for quick field mobilization.

**Skid Mounted System** OS separators can be combined with our other treatment equipment and options into a fully integrated, custom designed system completely mounted, plumbed and wired to a system skid. To simplify your need to do the wiring and plumbing on site, reducing your time frames and on site costs, we design around your requirements.

**Vent Scrubber** Separator vapors can be extracted and scrubbed prior to discharge to atmosphere to remove VOC content.

**Level Sensors** Level sensors can be provided to detect water and oil/fuels. One or more sensor points can be provided to perform various functions such as high level, low level, pump on/off based on liquid levels and level detection for DCS controls or other functions based on your needs.

**Class 1 Div 1 & 2** Systems can be designed for use in a class 1 div 1 or 2 environment. Controls, components and wiring are changed to meet the needs of these environments. Intrinsically safe relays are also used for level sensors.

**Oil Monitor** An oil detection system can be provided to monitor effluent oil content and provide various actions based on the oil alarm setpoint. Actions might include: audible/visual alarm, redirection of influent or effluent via actuated valve, shutdown of influent pump or your custom action.



[www.panamenv.com](http://www.panamenv.com)

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