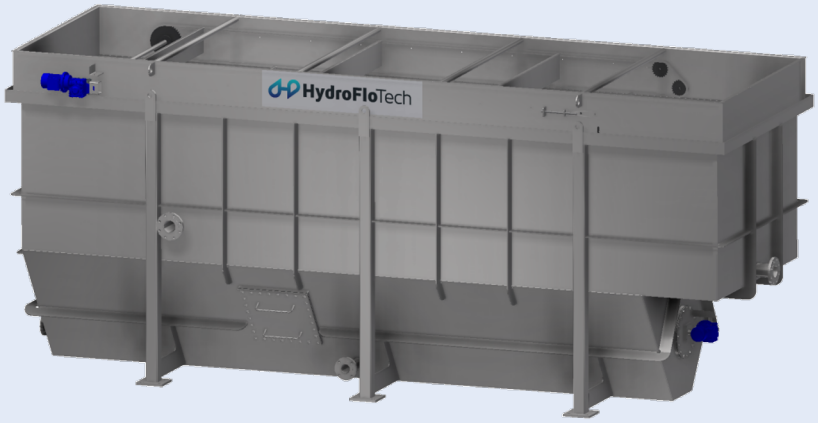
HydroFloTech

MaxiSep™ Oil Water Separator



Highlights

- Flow rates up to 750+ GPM
- <10 PPM FOG effluent
- Finest separator available
- Adaptable to any three-phase application
- Integral Oil & Sludge chambers
- Optional sludge auger
- Optional drag skimmer
- Upgradable to a DAF
- Media packages available

Standard Features

- Influent flow dispersion manifold
- API type optimal design (1.2.5) separation chamber
- A36 carbon steel construction
- Sludge collection chamber
- Oil reservoir / retention baffle specifically designed to enhance the performance of the DynaPac media (optional)
- Adjustable Weir System
- Proprietary DynaPac™ hi density coalescing media

Options

- ❑ Modification of configuration to fit your facility
- ❑ Sludge auger thickener and surface drag skimmer
- ❑ Secondary containment with interstitial monitoring
- ❑ Removable lid sections (Optional vapor tight)
- ❑ Freeze protection
- ❑ Pump packages: Influent, Effluent and Oil/Sludge
- ❑ Stainless steel 304 / 316L available
- ❑ Can easily be converted to DAF

MaxiSep™ API TYPE OIL WATER SEPARATOR STANDARD PRODUCT DATA SHEET

MaxiSep™ MODEL #	MEDIA IN FEET		SEPARATION CHAMBER IN FEET			FLOW RATE (GPM)			DIMENSION IN FEET		
SEPARATION CHAMBER SURFACE AREA	LENGTH	CUBIC FEET	H	W	L	MIN FLOW RATE @ 1' / MINUTE	STD FLOW RATE @ 2' / MINUTE	MAX FLOW RATE @ 3' / MINUTE	W	H	L
5	1	1	0.50	1.00	5	3	7	11	2.00	3.75	10.50
20	6	12	1.00	2.00	10	14	29	44	3.00	4.75	15.50
31	9	27	1.25	2.50	13	23	46	70	3.50	5.25	18.00
38	10	37	1.38	2.75	14	28	56	84	3.75	5.50	19.25
45	11	50	1.50	3.00	15	33	67	100	4.00	5.75	20.50
53	12	65	1.63	3.25	16	39	79	118	4.25	6.00	21.75
61	14	83	1.75	3.50	18	45	91	137	4.50	6.25	23.00
70	15	104	1.88	3.75	19	52	105	157	4.75	6.50	24.25
80	16	128	2.00	4.00	20	59	119	179	5.00	6.75	25.50
90	17	156	2.13	4.25	21	67	135	202	5.25	7.00	26.75
101	19	187	2.25	4.50	23	75	151	227	5.50	7.25	28.00
113	20	223	2.38	4.75	24	84	168	253	5.75	6.50	29.25
125	21	263	2.50	5.00	25	93	187	280	6.00	7.75	30.50
138	22	307	2.63	5.25	26	103	206	309	6.25	8.00	31.75
151	24	355	2.75	5.50	28	113	226	339	6.50	8.25	33.00
165	25	409	2.88	5.75	29	123	247	370	6.75	8.50	34.25
180	26	468	3.00	6.00	30	134	269	403	7.00	8.75	35.50
195	27	532	3.13	6.25	31	146	292	438	7.25	9.00	36.75
211	29	602	3.25	6.50	33	158	316	474	7.50	9.25	38.00
228	30	678	3.38	6.75	34	170	340	511	7.75	9.50	39.25
245	31	760	3.50	7.00	35	183	366	549	8.00	9.75	40.50
263	32	848	3.63	7.25	36	196	393	589	8.25	10.00	41.75
281	34	942	3.75	7.50	38	210	420	631	8.50	10.25	43.00
320	35	1,152	4.00	8.00	40	239	478	718	9.00	10.75	45.50

MaxiSep™ API Type Oil Water Separator – Sample Projects

System Description

- MS-090 OWS with a 1,400 gallon separation chamber (90 sq. ft. surface area)
- Constructed of carbon steel with heavy-duty industrial coatings
- Surface Drag Flight Skimmer
- Passive vapor retention lid assembly

Project Description

This 250 gpm OWS is installed at a petroleum pipeline storage terminal in northwestern Indiana, owned by one of the nation's largest independent pipeline companies. The OWS is a key component in the company's large interstate pipeline operation, particularly in northwest Indiana and the Midwest, enabling deliveries of heating oil and gasoline.

System Description

- MS-90 OWS with a 1,400 gallon separation chamber (90 sq. ft. surface area)
- 304 Stainless Steel construction with lid assembly to include 3 inspection hatches
- Surface drag flight skimmer and a bottom sludge thickener / auger
- Adjustable weirs, liquid level float switches, and Local Control Panel
- Freeze protection via heating pads / Insulating blankets
- Equipped with future DAF (Dissolved Air Flotation) expansion capabilities

Project Description

100 gpm OWS installed at JFK Airport in New York at the West Side Wastewater Treatment Plant. Part of two separate treatment systems located at the East and West sides of the property that are essentially duplicates of one another. The OWS separates petroleum product consisting of Jet A-1 Fuel, as well as other groundwater contaminants. Other major components at the Treatment Plants are Dual-Cell Multi-Media Sand Filters with air scour systems.

System Description

- MS-200 OWS with separation chamber providing 200 sq. ft. surface area
- Carbon steel with heavy-duty industrial coatings, to include high temperature internal coating suitable for sustained 160º F water
- Surface drag flight skimmer, bottom sludge thickener / auger, local controls
- Equipped with future DAF (Dissolved Air Flotation) expansion capabilities

Project Description

Installed as part of a Wastewater Treatment Plant upgrade at Procter & Gamble's Iowa City, IA facility. This MaxiSep OWS is a key component in the treatment of their industrial wastewater. The plant has been Procter & Gamble's largest North American beauty products factory.

System Description

- Two (2) MS-48 OWS with 516 gal. separation chambers (70 cu. ft. area)
- Constructed of carbon steel with heavy-duty industrial coatings
- 48 cu. ft. of DynaPac PVC coalescing media. Removable for cleaning.
- Removable lid assemblies with two access hatches each
- Convertible to Dissolved Air Flotation System (DAF)
- Platforms and railings are between and connecting the two OWS.

Project Description

These two Separators are in use at the Nuclear Power Training facilities in Goose Creek, SC. The two (2) Separators are each sized for 20 gpm minimum flow rates. Grease and oil concentrations in the effluent are not to exceed 70 mg/L (each contaminant). This performance requirement is for the daily maximum as well as 30-day averages and is met on a consistent basis.