

MaxiSep - Oil/Water Separator

Basin Type, Carbon Steel Construction

- ✓ **Integral Oil & Sludge Storage**
- ✓ **Coalescing Media Optional**
- ✓ **Flow Rates from 15 to 600 GPM**
- ✓ **Designed According to API Criteria**
- ✓ **Design Accepts Conversion to a DAF**
- ✓ **Surface Skimmers and Bottom Augers Optional**



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THE PROBLEM

- ❖ Gross free oil in the wastestream.
- ❖ Cannot meet discharge regulations for oil and grease.
- ❖ Removal of free and dispersed oil droplets needed to protect downstream treatment equipment
- ❖ Need to reduce overall system operating cost by reducing oil pollutant load on downstream equipment

THE SOLUTION

Gravity Type - Rectangular Channel Basin Oil Water Separators, commonly referred to as API separators, are excellent at removing free, gross, highly viscous oil or similar distinct phase floatable and sinking products from wastewater.

The MaxiSep Separator is designed as a highly efficient treatment device suitable for protecting other downstream treatment equipment or processes.

Hydro-Flo Technologies MaxiSep - Basin Type Oil Water Separators are designed according to the latest API design manuals to ensure you of the best possible performance.

The optional sloped hopper bottom for sludge/solids settling is a full length, deep V bottom chamber designed to allow high volumes of settled solids to gather. A stainless steel bottom sludge auger can be added for solids dewatering and removal. The recovered oil product reservoir is conveniently located in the end of the separation chamber and has an adjustable stainless steel skimming weir assembly, or can be optionally fitted with a surface flight skimmer system.

Hydro-Flo Technologies Separators can handle a wide variety of harsh environments. Oil removal can be enhanced with five different oil coalescing media types and plate spacings.

Hydro-Flo Technologies also offers a complete selection of accessories and custom configurations to fit your application. The MaxiSep can also be configured for later conversion to dissolved air flotation. Freeze protection, special fittings, and special coatings are just some of the available options.

THE COMMITMENT

Solving your wastewater problem is our goal. Our extensive experience in designing and building high quality wastewater treatment equipment is at your disposal.

Our engineers and fabricators constantly strive to design and build the finest American made equipment available today! You are assured of equipment that will provide performance, efficiency, adaptability, and ease of operation.

Let our experience, know-how, and resources go to work for you. Application specific consultations are available at no cost or obligation.

Our oil water separators are designed and sized according to the most recent API criteria for design and operation of oil water separators. We use the calculations found in API Publication 421 - 1990, to expertly design and size your separator for reliable and predictable wastewater treatment performance.

TYPICAL APPLICATIONS

- v Petroleum Refinery
- v Railroad & Trucking Industry
- v Groundwater Remediation
- v Light & Heavy Manufacturing
- v Food Processing & Rendering
- v Chemical Processing Industries
- v Industrial Wastewater Treatment
- v Equipment Washpad Recycling

HYDRO-FLO
TECHNOLOGIES, INC.

The Art & Science Of Wastewater Treatment

STANDARD FEATURES

- ✦ A36 Carbon Steel Construction
- ✦ Extra Large Separation Chamber
- ✦ Integral Large Capacity Oil Reservoir
- ✦ Stainless Steel Adjustable Weirs
- ✦ 150# ANSI Flanged Fittings
- ✦ Vapor Tight Lid Assembly
- ✦ Convertable to Dissolved Air Flotation
- ✦ Easy to Install and Operate

ENGINEERED PERFORMANCE

Designed - Built - & Sized according to API Publication 421 and Stokes Law. Calculated performance based on oil specific gravity, viscosity, and flow rate assures reliable operation. Optional integral sloped bottom sludge chamber eliminates separator fouling due to solids accumulation. Integral large capacity oil reservoir and skimmer continuously remove oil.

RUGGED CONSTRUCTION

- ✦ A36 Carbon Steel 3/16" & 1/4"
- ✦ Internal Prepared to SSPC-SP10
- ✦ Internal 2 Coats Coal Tar Epoxy
- ✦ External Prepared to SSPC-SP6
- ✦ External 1 Coat Self Priming Epoxy

BUILT-IN QUALITY

Performance oriented surface area calculations are conducted for each separator to ensure reliability of operation. Over 40 manufacturing quality control points inspected. All separators leak tested and critical welds dye tested prior to shipping.

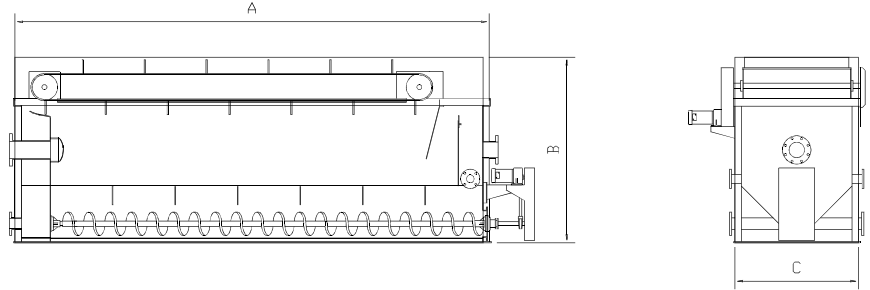
GENERAL SPECIFICATIONS

The separator is designed as a specially fabricated rectangular channel steel basin type oil water separator with adequate supporting structure.

The oil/water separation and oil skimming removal process are fully automatic requiring no moving parts. There is integral large capacity oil and sludge storage.

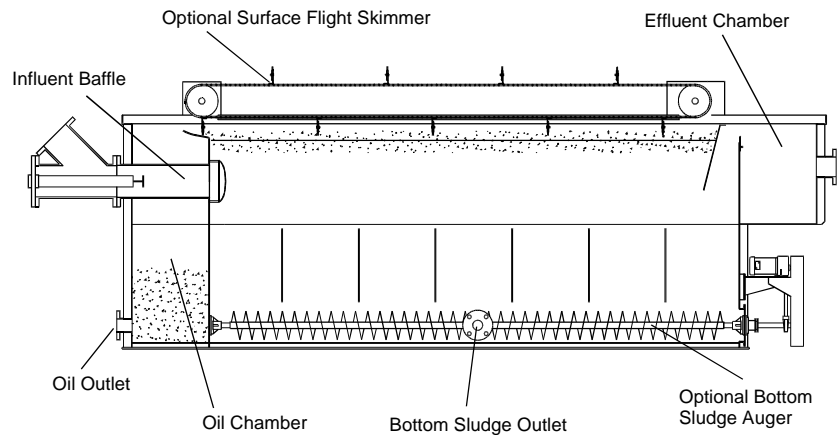
The design satisfies the requirements of API Publication 421 Feb. 1990 and Stokes Law.

MaxiSep Basin Type Oil/Water Separator Carbon Steel Construction



MODEL	A Long (Feet)	B High (Feet)	C Wide (Feet)	Inlet Fitting (Inches)	Outlet Fitting (Inches)	Typical Flow Rate Range GPM	Operating Weight (LBS.)
MS - 25	13	8	4	2	2	5-50	10,000
MS - 40	15	8	5	2	2	10-80	16,500
MS - 60	18	9	6	3	3	25-120	25,000
MS - 90	21	9	7	4	4	45-180	37,900
MS - 125	26	10	7	6	6	60-250	62,000
MS - 160	30	10	8	6	6	80-320	75,000
MS - 185	32	11	9	6	6	90-370	92,800
MS - 200	34	11	9	8	8	100-400	102,000
MS - 260	37	12	10	8	8	130-520	132,000
MS - 335	43	12	11	8	8	165-670	175,000
MS - 400	48	12	11	8	8	200-800	220,000
MS - 450	54	13	11	12	12	225-900	245,000
MS - 550	59	13	11	12	12	275-1100	265,000
MS - 610	64	13	12	12	12	305-1220	298,000

Dimensional and performance data are offered only as a guide and are not for construction. Specifications are subject to change. Optional configuration and sizing are available.



The following accessories & options are just a few of the more popular selections available from Hydro-Flo Technologies. If you have a specific option or configuration in mind, please call. Our marketing & engineering staff will be able to help you design the perfect oil/water separator for your application

Platforms & Walkways	Sloped Hopper Bottom Sludge Chamber
Freeze Protection Packages	Surface Flight Drag Skimmer
Special Fittings Configurations	Explosion Proof Configurations
All Stainless Steel Construction	DAF Conversion Packages
Special Internal And External Coatings	FRP - CPVC & Stainless Steel Coalescing Media
Pump Systems For Influent, Effluent, Oil & Sludge	1/2" - 3/4" - & 1-1/4" Coalescing Media Spacing

Represented By:

Visit us on the web. www.HydrofloTech.com