



Modern Welding Company

Subsidiaries Nationwide

Fabricator of Quality Metal Products offering Coast to Coast Service

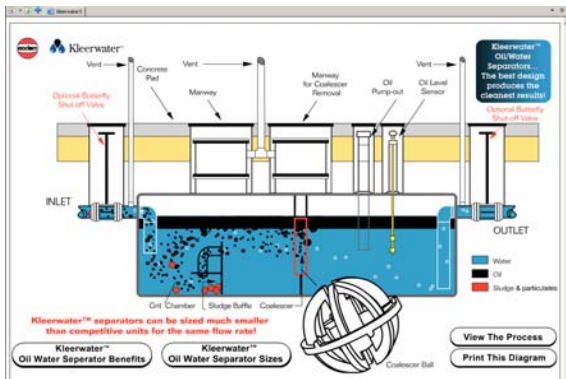
www.modweldco.com



Modern's Kleerwater™ High Efficiency Oil Water Separators Patent No. 5,229,015

Kleerwater™ Gravity Displacement Oil Water Separators

- Kleerwater™, oil water separators, maybe constructed in single or double wall tank designs. Double wall configurations have interstitial monitoring capabilities. Separator material of construction is carbon steel or in special applications, stainless steel.
- Tanks are built to Underwriters Laboratories UL-58 / UL-1746 construction standards. Kleerwater™ oil water separators are tested to Underwriters Laboratories, UL-2215 standards.
- Separators are designed to separator free-floating oils and greases with specific gravities between 0.7 and 0.94, from fresh water influents.
- Kleerwater™ separator design criteria is based on Stokes Law which defines the rates of rise of oil spheres in a liquid medium. Special coalescence media enhances the separators efficiency to obtain unmatched performance, down to 5 ppm. (See note 1 below)
- Kleerwater™ can handle larger continuous or intermittent influent flow rates. This allows for smaller separator system tanks. With smaller separation tanks, there is less spent on installation costs.
- Kleerwater separators are designed for no internal or confined space entry when performing routine maintenance. (see note 2 below)
- Kleerwater™ separators are available with electronic audible and visual alarms for preset notification of liquid levels in the separator.
- Kleerwater™ oil water separators are not for use in applications where cleaning detergents are involved. Solvents or highly dissolved solids, such as untreated sanitary sewers, should not be introduced into Kleerwater™ separators.



See working video at www.modweldco.com/Kleerwater_Oil_Water_Separators/kleerwater3.html



15,000 gallon Kleerwater Oil Water Separator used at D.F.W Airport

1 – Efficiencies are dependent on influent flow rates, concentrations and specific gravity of oil. Any one of these factors can affect the separators efficiencies of oil and water separation.
2 – Maximum 180 day maintenance inspection schedule must be implemented for this claim to be applicable. Follow published maintenance instructions as published by the Kleerwater™ oil water separator manufacturer.

Kleerwater™ separators will not separate chemical emulsions, dissolved hydrocarbons or volatile organic hydrocarbons.

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The Klerwater™ Advantage

Only with Klerwater™ Oil Water separators can you get these important advantages:

- ✓ **Highest quality of effluent**
 Klerwater™ Oil Water Separators are UL 2215 tested for effluent of 5 parts per million.
- ✓ **Highest flow rate for a given size of separator**

Klerwater™ versus the Competition										
	Rainfall	2"			3"			4"		
Coverage Area sq.ft.	Acres	req'd flow rate	Klerwater™ separator size	Typical Competitor separator size	req'd flow rate	Klerwater™ separator size	Typical Competitor separator size	req'd flow rate	Klerwater™ separator size	Typical Competitor separator size
500	0.01	10	150	350	16	150	350	21	150	350
1,000	0.02	21	150	350	31	285	550	42	550	550
5,000	0.11	104	550	2,000	156	1,000	2,000	208	2,000	3,000
10,000	0.23	208	2,000	3,000	312	2,000	4,000	416	3,000	5,000
30,000	0.69	624	4,000	7,000	936	5,000	10,000	1,248	8,000	15,000
50,000	1.14	1,040	6,000	12,000	1,560	8,000	20,000	2,080	12,000	30,000
100,000	2.29	2,080	12,000	30,000	3,120	20,000	40,000	4,160	25,000	50,000
150,000	3.43	3,120	20,000	40,000	4,680	25,000	50,000	6,240	35,000	two units
200,000	4.58	4,160	25,000	50,000	6,240	35,000	two units	8,320	45,000	two units
250,000	5.72	5,200	30,000	two units	7,800	40,000	two units	10,400	two units	two units

Sizes are in US gallons

- ✓ **Easy maintenance with NO confined space entry for normal cleaning**

When performing routine maintenance, the operator need only remove coalescer media bags that are soiled. No parallel plates or bulky coalescer packs that require tank entry to clean. Bags can be easily retrieved from grade through the manway. Soiled bags can then be power washed and returned to the separator.

Consider some of the other features of Klerwater™ advanced technology:

- ✓ Available in sizes from 150 to 50,000 gallons.
- ✓ Available in single and dual wall designs, cylindrical and rectangular, aboveground and underground.
- ✓ Underground separators offered with fiberglass or urethane coatings per UL1746 standards.
- ✓ Available from multiple fabrication facilities nationwide, assuring competitive pricing and freight rates.
- ✓ Simple, cost-effective electronic monitoring of oil levels and interstitial space

Contact our nearest fabrication subsidiary for your next oil water separator!

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Locations:	Newark, OH modern5@modweldco.com 740-344-9425	Houston, TX modern7@modweldco.com 713-675-4211	Fresno, CA modern10@modweldco.com 559-275-9353	Rhome, TX modern15@modweldco.com 817-636-2215
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Kleerwater™
Oil/Water Separator

COALESCER "BALL"

U.S. PATENT NO. 5,229,015

New Technological Breakthrough for the Oil/Water Separator Industry

Capacities:
150-20,000 gallons

Flowrates:
30-4,000 GPM

Designed for Your Business

- PETROLEUM MARKETING FACILITIES (Service Stations & Convenience Stores)
- PARKING LOTS / STRUCTURES
- VEHICLE REPAIR AND MAINTENANCE SHOPS
- BULK OIL TERMINALS & LOADING RACKS
- MATERIAL HANDLING FACILITIES
- AIRPORTS
- BUS TERMINALS
- RAILROAD YARDS
- REFINERIES, STEEL MILLS
- UTILITIES
- TRUCK STOPS
- PETRO CHEMICAL PLANTS
- MILITARY INSTALLATIONS
- TANK FARMS

EASY MAINTENANCE – NO ENTRY REQUIRED

Kleerwater™ Gravity Displacement Oil/Water Separator separates free-floating oils and greases from water mixtures. This design is based on Stokes law which defines the terminal velocity of oil spheres in a liquid medium.

Separators are manufactured in either single or double wall construction and rigidly adhere to Underwriters Laboratories UL-58, UL-142, UL-1746, and UL-2215 standards and specifications. Effluent output concentrations meet the strictest requirements of State and Federal mandates under the Resource Conservation and Recovery Act, and the Clean Water Act.

Kleerwater™

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