

Continuous Flow: Yes No

OIL/WATER SEPARATOR Design/Sizing Questionnaire Rainwater Runoff

Intended use: Containment Solutions, Inc. Oil/Water Separators are designed to separate free floating oil, grease, and settleable solids from oil/water discharge in a wide variety of applications. The source of the inlet shall be gravity flow. Refer to Containment Solutions if other than gravity flow is required.

Company Name:				Telephone No.	:			
Address:				- Fax No.:				
				Project Name:				
City:				Project Location: System Requirement: Single Wall Double Wall (Wet/Dry Monitoring)				
State:								
Zip:								
Sales Rep:				Required Oil/G	rease Discharge (Quality:		
						(ppm)		
Type of Applicat	ion (check	all that apply	/):					
Storm Water		Washc	lown	Mainte	enance Facility/Flo	or Drains		
Conter/Describe								
Flow Conditions								
A Water								
Storm Water	Runoff Anr	lications Only						
Area to be	Drained (Sc	n Et).						
Maximum F	Pate of Rair	nfall (IN/HR) -	see chart.					
Maximum F	low Rate* /	(GPM) - 1150 a	ttached work	shoot.				
Water Tem	noraturo (°	(O W) use a $(O W)$ = if other the	n ambient:					
B Inlet Oil	perature (i) - ii otilei tile	an ambient.					
Source/Typ	0.		Specific G	avity Pange:	(500.2	ttached chart)		
Inlet Oil Cor	contrations	c (other than sr		tions)	(366 a			
Iniet Oil Col	ICENTIATIONS	s (other than sp	nii concentra		(FFM).			
Storage/Spill								
Oil storage ca	apacity requ	uirement for sy	/stem:	gallons	. (leave blank if r	none).		
Oil spill capa	city require	ment for syste	m:	_gallons. (leave	e blank if none).			
Contaminants								
Solids: (Type	, Concentra	ation)						
Is there	e or will the	re be a trap, g	rit chamber o	or interceptor pre	eceding the Oil/Wa	ater Separator?		
	🗆 Yes	□ No						
Detergents:	🗆 Yes	🗅 No	Туре:					
Operating Paran	neters							
Burial Depth:			(ft)					
Distance Tan	k Top to Dis	charge Pipe E	lbow:		(ft)			



This information was provided by the National Weather Service. For detailed information on rainfall in your area, contact your local weather information service.

Storm Water Runoff:

I. Calculate the storm water drainage area that will direct flow through the oil/water separator. It is important to note that diverting drainage away from the oil/water separator that would not have the potential for oil/grease contamination, such as roof drainage, can significantly reduce the flow and thus reduce the required size of the oil/water separator. Check Federal, State and Local requirements.

Length (ft.) _____ x Width (ft.) _____ = ____ Sq. Ft.*

 Determine from the enclosed U.S.A. Rainfall Intensity Map the rainfall amount for your installation location. The enclosed chart is based on National Weather Service 5 year / I hour duration. State or local regulations vary and may specify alternate guidelines.

_____in./hr. **

- 3. Refer to #1 and #2 above and calculate the flow rate as follows:
 Sq. ft.* x Rainfall in./hr.** x .0104 = Flow Rate (GPM***).
 ______ x .0104 = _____ (GPM)
- 4. From the Containment Solutions Oil/Water Separator specification chart, under the "Flow Rate" column, choose the Oil/Water Separator with a flow rate that is equal to or slightly higher than the flow rate calculated in #3 (***).

Model		

- 5. Determine if there is a need for emergency spill containment. Check Federal, State and Local requirements. If a hydrocarbon spill potential exists, Oil/Water Separator spill capacity requirements may be determined by:
 - A. Multiplying pump flow rate(s) (GPM) times the number of minutes it would take to shut off flow in the event of an equipment failure. Record number of gallons in "A" below.
 - B. Determining the largest volume of spill that could result in a product release due to equipment or human failure. Record number of gallons in "B" below.

А	 gallons
В	 gallons
Add A and B	 gallons of spill capacity required.

- 6. From the Containment Solutions Oil/Water Separator specification chart, under the "Spill Capacity" column, choose the Oil/Water Separator with a spill capacity that is equal to or slightly higher than the spill capacity calculated in #5 above. Model ______.
- 7. The Oil/Water Separator to be used is the larger of those determined in #4 and #6.

SPECIFIC GRAVITY OF SELECTED OILS

0.79	-	0.85
0.81	-	0.92
0.82	-	0.95
0.88	-	0.97
0.91	-	0.99
0.91	-	0.99
0.91	-	1.06
0.93	-	1.07
0.82	-	0.95
0.87		
0.89		
0.90		
ations		
o.93		
o.93		
0.93 0.74	-	0.85
0.93 0.74 < 0.72	- 2	0.85
0.93 0.74 < 0.72 0.88	- 2 -	0.85 0.89
0.93 0.74 < 0.72 0.88	- 2 -	0.85 0.89
0.93 0.74 < 0.72 0.88 0.88	- 2 -	0.85 0.89 0.92
ations 0.93 0.74 < 0.72 0.88 0.88 Turbin	- 2 - - 0 es	0.85 0.89 0.92
0.93 0.74 < 0.72 0.88 0.88 Turbin 0.87	- 2 - - 0 es	0.85 0.89 0.92
ations 0.93 0.74 < 0.72 0.88 0.88 0.88 Turbin 0.87 0.87	- 2 - - 0 es	0.85 0.89 0.92
	0.79 0.81 0.82 0.88 0.91 0.91 0.93 0.82 0.87 0.89 0.90	0.79 - 0.81 - 0.82 - 0.91 - 0.91 - 0.91 - 0.93 - 0.82 - 0.82 -



5150 Jefferson Chemical Road Conroe, Texas 77301-6834 Tel: 936-756-7731 Fax: 936-756-7766 Website: www.containmentsolutions.com

While Containment Solutions has taken every precaution as to the accuracy of content and data presented herein; Containment Solutions cannot be held responsible for the individual interpretation of the data presented; any loss or damage to any property whatsoever; injury or death to any persons whatsoever, or any claims, demands, actions, complaints, proceedings, judgment, losses, damages, compensation, liabilities, costs or charges, however arising from the unauthorized undirected use of this handbook or the data it contains.