

Pontoon Skimmers

Remove Light Liquids from Storage Tanks



Resist-All-Clad[®]



MADE IN USA

Mesa

ISO 9001:2000 *certified*

Skimmer assembly is made of stainless steel to hold up against corrosive products. (Carbon steel components available on request).

Intake fitting is equipped with a stainless steel vortex breaker to induce optimum flow as the fluid starts into the skimmer conduit. Intake can be raised or lowered during installation.

Stainless steel pontoons ensure proper flotation of entire assembly.

Tether system ensures that hose coils remain in position as installed. (Stainless steel or nylon tethers available).

Square guide pole (customer supplied) extends from the tank floor to the tank roof. Stainless steel guide rollers locate skimmer on guide pole.

Resist-All-Clad™

Resist-All-Clad Flexible Pipe is designed for continuous service (both externally and internally) in pure M.T.B.E., 100% aromatic hydrocarbons (Benzene and Toluene), pure alcohol, gasoline, jet fuels, crude oil, water and many other products.

Straight sections of piping (customer supplied) connect flexible pipe to shell nozzle.

Resist-All-Clad features a smooth internal fluidway (no corrugation) to ensure optimal liquid flow through the flexible pipe.

Multiple-coil design offers a controlled lay pattern that does not slide on the tank floor.

Angle stops (customer supplied) are welded to the square column at both the top and bottom to limit the travel of the Skimmer.

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Floating 150 lb. ANSI raised face flanges and nylon coated steel fittings.

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Mesa Skimmer systems are a proven solution for draining a light liquid product off the top of a heavier product in a cone or dome roof storage tank. The Skimmer floats on the top product (ex. oil over water) to collect the lighter of two non-mixable liquids into a vortex breaker. The liquid is then drained out of the tank through Mesa's Resist-All-Clad™ flexible pipe.

Skimmers are made of stainless steel to perform in the most corrosive product environments.

An intake fitting and vortex breaker ensure optimal flow as the fluid starts into the skimmer conduit. The Skimmer intake is adjustable to control the amount of liquid that is collected.

Resist-All-Clad flexible pipe features 100% aromatic resistance and includes a smooth internal fluidway for maximum liquid flow.

Draining the light fluid is controlled by using a valve at the shell nozzle. Pumps can also be used to draw the light fluid out of the tank.

Other Mesa hose assemblies and carbon steel Skimmer components are available on request.



Minimum Manway Size

All Skimmer components are designed to pass through a 20" or 24" manway.

Resist-All-Clad®

I.D.	WEIGHT PER COIL	MINIMUM WORKING BEND RADIUS	MAXIMUM WORKING PRESSURE	VACUUM RATING INCHES HG.	STANDARD TEMP. RANGE
2 in	42 lb	36 in	150 psi	29	- 40° F to 180° F
3 in	116 lb	48 in	150 psi	29	- 40° F to 180° F
4 in	207 lb	60 in	150 psi	29	- 40° F to 180° F

NOTE: All assemblies tested at 100 P.S.I.G. FOR ONE HOUR AND CERTIFIED (unless higher test pressure is requested by customer). * Consult factory for Minimum Shipping Bend Radius.



Northeast

4141 Airport Road
Cincinnati, OH 45226-1643
Phone: 513.321.4511
Fax: 513.321.8178

Southeast

9202 Meadow Vista Blvd.
Houston, TX 77064-2012
Phone: 281.469.8098
Fax: 281.469.9524

West

1726 South Magnolia Ave.
Monrovia, CA 91016-4595
Phone: 626.359.9361
Fax: 626.359.7985

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MR-SKIM-09

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Flow rates shown are calculated for water in a 40 ft diameter tank. Somewhat higher rates can be expected with lighter, lower viscosity fluids. Larger tanks will yield slightly lower flow rates and smaller tanks will yield slightly higher rates. Rates do not allow for any flow restriction outside of the tank shell. Higher skimming rates can be obtained by using a pump down stream from the skimming line.

Flow Rates

Resist-All-Glad®

ID x NUMBER OF COILS

	2" X 2	2" X 3	2" X 4	2" X 5	2" X 6	3" X 2	3" X 3	3" X 4	3" X 5	3" X 6	4" X 2	4" X 3	4" X 4	4" X 5
GALLONS PER MINUTE														
HEIGHT														
4 ft	39.8	36.8	34.3	32.3	30.6	103.7	94.9	88.1	82.5	77.9	199.6	180.9	166.6	155.2
6 ft	48.8	45	42	39.6	37.5	127	116.3	107.9	101	95.4	244.5	221.5	204	190.1
8 ft	56.3	52	48.5	45.7	43.3	146.7	134.3	124.5	116.7	110.1	282.3	255.8	235.6	219.5
10 ft	63	58.1	54.3	51.1	48.4	164	150.1	139.2	130.4	123.1	315.6	286	263.4	245.4
12 ft	69	63.7	59.4	56	53	179.7	164.4	152.5	142.9	134.9	345.8	313.3	288.5	268.9
14 ft	74.5	68	64.2	60.4	57.3	194.1	177.6	164.8	154.3	145.7	373.5	338.4	311.7	290.4
16 ft	79.7	73.5	68.6	64.6	61.2	207.4	189.9	176.1	165	155.8	399.3	361.8	333.2	310.5
18 ft	84.5	78	72.8	68.5	64.9	220	201.4	186.9	175	165.2	423.5	383.7	353.4	329.3
20 ft	89	82.2	76.8	72.2	68.4	231.9	212.3	198.9	184.5	174.1	446.4	404.5	372.5	347.1
22 ft	93.4	86.2	80.5	75.8	71.8	243.3	222.6	206.5	193.5	182.6	468.2	424.2	390.7	364
24 ft	97.6	90.1	84.1	79.1	75	254.1	232.5	215.7	202.1	190.7	489	443.1	408.1	380.2
26 ft	101.5	93.8	87.5	82.4	78	264.4	242	224.5	210.3	198.5	509	461.2	424.7	395.8
28 ft	105.4	97.3	90.8	85.5	81	274.4	251.2	233	218.3	206	528.2	478.6	440.8	410.7
30 ft	109	100.7	94	88.5	83.8	284.1	260	241.2	225.9	213.2	546.7	495.4	456.2	425.1
32 ft	112.7	104	97.1	91.4	86.6	293.4	268.5	249.1	233.3	220.2	564.6	511.6	471.2	439.1
34 ft	116	107.2	100.1	94.2	89.2	302.4	276.8	258.7	240.5	227	582	527.4	485.7	452.6
36 ft	119.5	110.3	103	96.9	91.8	311.2	284.8	264.2	247.5	233.6	598.9	542.7	499.8	465.7
40 ft	126	116.3	108.5	102.2	96.8	328	300.2	278.5	260.9	246.2	631.3	572	526.8	490.9
44 ft	132.1	122	113.8	107.2	101.5	344	314.9	292.1	273.6	258.2	662.1	600	552.5	514.8
48 ft	138	127.4	118.9	111.9	106	359.3	328.9	305.1	288.7	285.8	691.5	626.6	577.1	537.7



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