



Skimmers > HDPE

Model 1200

The Model 1200 Floating Skimmer provides an effective non-metallic solution to skimming product from the surface of tank contents, regardless of the overall tank level.

Design

The Model 1200 consists of a custom made HDPE pontoon with siphon and hose assembly slung underneath. The pontoon floats on the liquid while ensuring the siphon is fully submerged just under the surface. To guide the skimmer, the pontoon features two pairs of guide holes through the web for guide cables. Using float guide cables keeps the apparatus from floating around horizontally inside the tank, while still allowing full vertical travel. The siphon inlets, set below the liquid level, draw product in to the skimmer and direct it through a flexible hose to the tank outlet connection. Hose outlet connections are nominally 2 NPT, but can be fit to most any kind of pipe or flange connection.

Construction

The pontoon and siphon are made from polyethylene; the pontoon from the same red LLDPE resin as our popular level indicating floats, and the siphon from black HDPE. The hose is a flexible 2.5" ID PVC tube with a hard PVC helix for rigidity and abrasion resistance, and is connected to the siphon and outlet connection with stainless steel hose clamps. Hose connections and flanges are carbon steel, standard.

Flexibility

Because the Model 1200 is a floating skim, it follows the liquid level, ensuring that the product it draws off is always from the top of the liquid column. The flexible hose used on the Model 1200 not only allows unimpeded travel of the skimmer pontoon, but provides flexibility in placement of the skimmer in relation to the desired hose outlet tank connection. For Model 1200 skimmers using float guide cables, stops are available to limit the vertical travel of the skimmer, eliminating interference with heaters, or other in-tank equipment.



Above: Skimmer Pontoon (red) with siphon and hose hanging below; shown with float guide cables passing through the guide holes in the web.

Below: Skimmer Pontoon



Ordering Information

- 1.) Specify Model 1200 Skimmer
- 2.) Specify Required Hose Length (see Hose sizing on back page)
- 3.) Specify Outlet connection size and material.
- 4.) Specify Float Guide Kit if required, and supply tank height.

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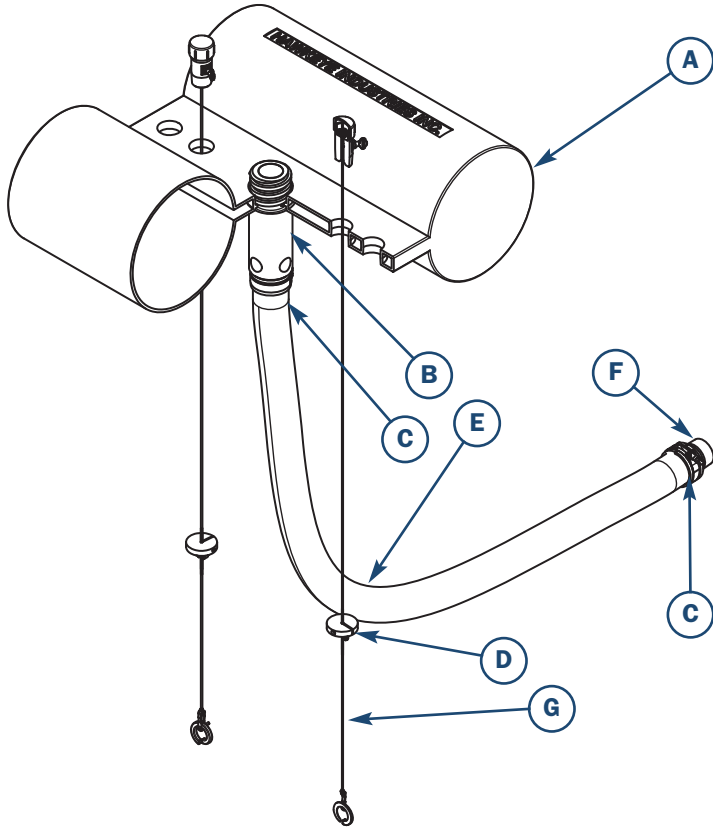
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Specifications

Skimmer Style	Float
Process Connection	2 NPT, Standard
Process Temperature	-40 °C to 65 °C
Ambient Temperature	-40 °C to 65 °C

System Parts



These items are included in the Model 1200 System.

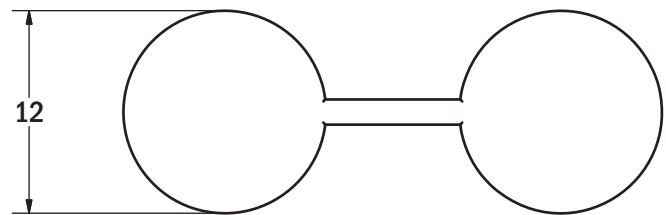
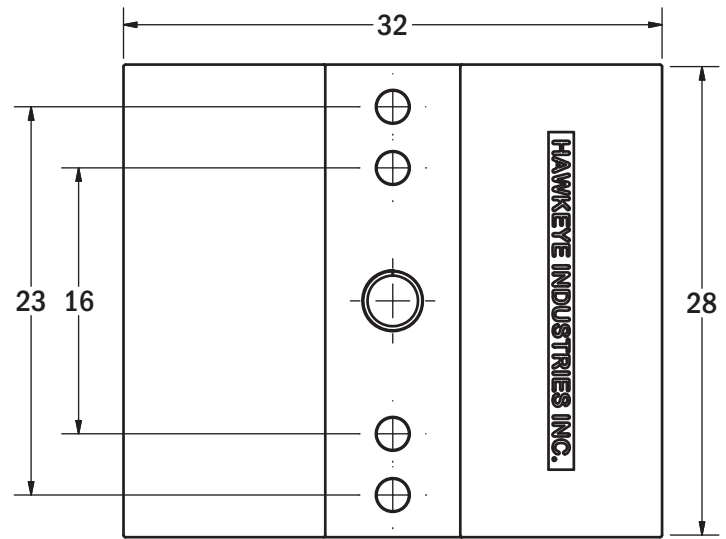
- ▶ Skimmer Pontoon Base (A), c/w Siphon (B), Hose Clamp and Rings (C), & Guide Cable Stops & Clamps (D)
- ▶ Hose (E)
- ▶ Outlet Connection (F)
- ▶ Float Guide Kit (optional) (G)

Hose Sizing

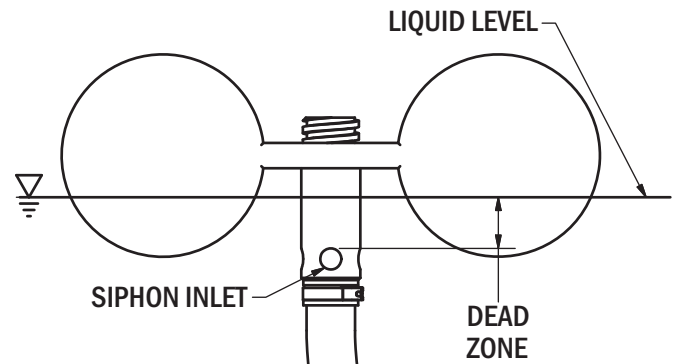
The following dimensions are required when determining the length of hose required for a tank skimming application.

- ▶ Tank Height & Diameter
- ▶ Location of Skimmer within tank
- ▶ Location of outlet connection

Pontoon Dimensions



Dead Zone



Product is not drawn from the surface, but slightly below a region called the dead zone. The dead zone exists between the liquid surface and the top of the siphon inlet, and it varies with the density of the tank contents, and the weight of the hose underneath. The dead zone increases with lower density liquid, and longer hose lengths, and decreases with denser liquids and shorter hose lengths.

Estimated Deadzone	
Water (SG=1.0) 2.88 in.	Oil (SG = 0.7) 3.75 in.