

# Keep Sump Clean

## Zebra Muscle Coalescer for Individual Sumps

### Triple-Action Coolant Cleaner

Continuously cleans, filters, and aerates to prevent rancidity  
Circulates static sumps which tend to degrade more quickly

### Zebra® Muscle™ Delivers

- Customizable:** Buy only what you need. Extra hose? Certain attachments? No problem.
- Improved Sumpster:** Smaller, more precise, and allows less coolant to enter from the seams.
- Coalescing Media:** Increases surface area 5-fold enabling emulsified oils to separate faster.
- Improved IODS:** The new design on our Internal Oil Discharge Skimmer dispenses virtually no coolant.
- Separate Aeration:** We reduce the chance of barrel contamination by aerating it with an Oxygenator™.
- Particle Filtration:** Ours is the only unit that can work with a filter bag! Removes coolant-degrading metals such as cast iron or aluminum (model F15DF only).
- Drum Dolly Option:** Allows easy barrel maneuverability during routine maintenance.
- Leak-Proof Fittings:** We weld our fittings to the barrel so your shop floor stays clean. Other brands use leaky compression gaskets.
- Durable Hoses:** No cheap clear vinyl hoses here. We use spiral-wound and braided hoses that resist kinking and crushing!
- Easy-to-Empty:** A built-in siphon system empties the whole barrel in minutes. Other brands are tough to clean out.
- Guarantee:** One full year. 'Nuff said.



Model f15P shown here.

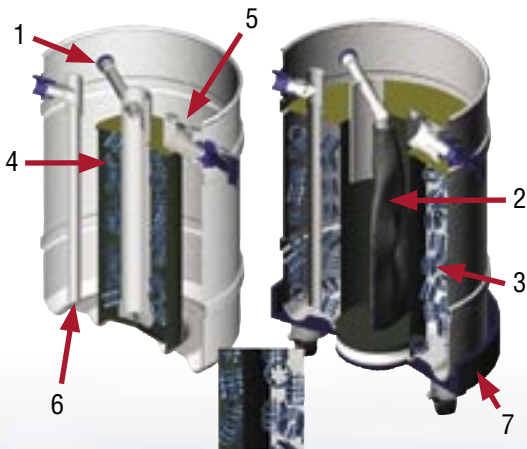


Diaphragm pumps also available, air model shown here.

Sectional Views of Models



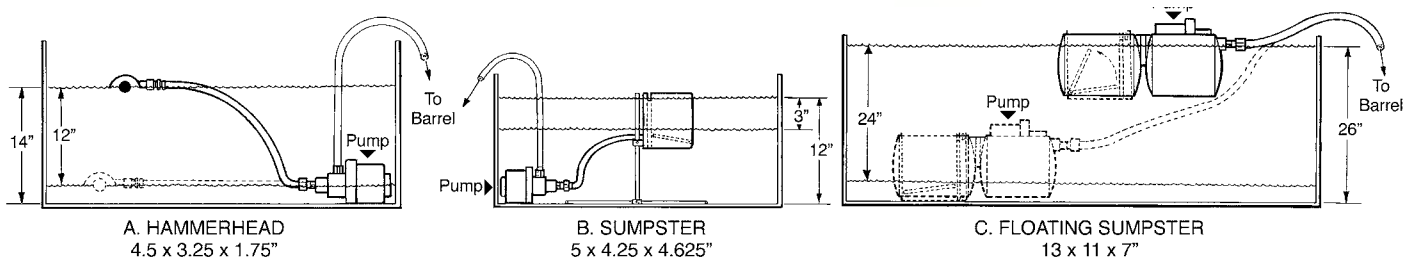
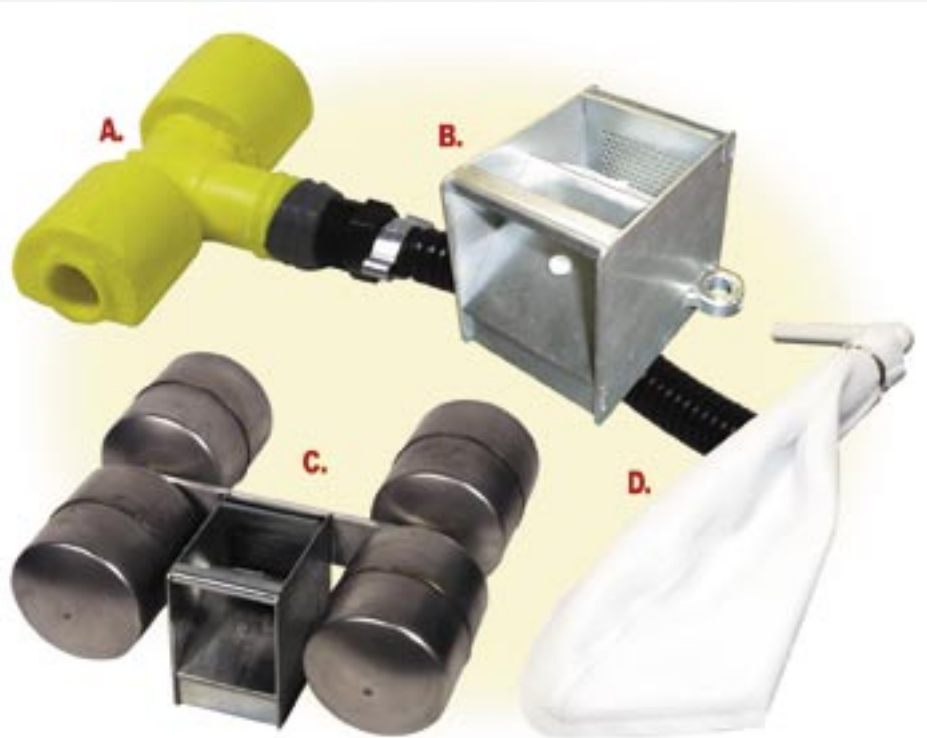
### How the Zebra Muscle Coalescer Works



1. Dirty coolant is brought in by the intake attachment and travels through this fitting to the coalescing cartridge (or Fine Stopper on F15DF models).
2. The Fine Stopper (F15DF model) gathers any chips that are brought in with the dirty coolant through the intake attachment. These chips are mainly the ones that float with the tramp oil layer.
3. The coalescing media increase the internal surface area of the barrel fivefold to coalesce the oil droplets.
4. The coolant then travels through the coalescing cartridge, whereby the tiny oil droplets cling to the coalescing media. Once large enough, they then rise out of the coolant, traveling above the perforated plate atop of the coalescing cartridge for manual discharge.
5. The Internal Oil Discharge Skimmer (IODS) gathers the oils for virtually coolant-free discharge.
6. Clean coolant is returned from the bottom of the Muscle through this pipe.
7. The drum dolly provides for easy maneuverability of the coolant-filled Muscle during machine maintenance

## Attachment Options for the Zebra Muscle Coalescer

- A. Hammerhead Skimmer (Part# SK02D12F)
- Fits hard-to-access areas
  - Handles fluid fluctuations up to one foot
  - Floats easily, no adjustments necessary
- B. Sumpster Skimmer (Part# SK10A7)
- Galvanized steel construction, precision formed hinge, and chip screen which prevents clogging hoses
  - Handles a 3" level variation only
  - Skims without sucking air – great for coolant with foaming problems
- C. Floating Sumpster Skimmer (Part# SK10B2.3S)
- Same great benefits of the Sumpster, PLUS
  - Great for sumps deeper than 12" or sumps with changes in fluid levels above 3"
  - Suitable for underground applications (4' max lift w/ Muscle Series)
- D. Filter Bags (Part# FXB100-10, std.)
- New integrated fitting makes them easy to handle and replace when the filter is full
  - Discourages cleaning of the single use bags, ensuring that your sump isn't being re-fed a diet of fines
  - For F15 Deluxe with Filter models only



## Selection Guide

Model*	Part Number	Hammerhead	Sumpster	Floating Sumpster	Oxygenator	IODS	Coalescing Cartridge	Extra Coalescing Media	Drum Dolly**	Fine Stopper***	
Plus	F15P	X	X		X	X	X				
	F15P.1	X			X	X	X				
	F15P.2		X		X	X	X				
	F15P.3			X	X	X	X				
Deluxe	F15D	X	X		X	X	X	X	X		
	F15D.1	X			X	X	X	X	X		
	F15D.2		X		X	X	X	X	X		
	F15D.3			X	X	X	X	X	X		
Deluxe w/Filter	F15DF	X	X		X	X		X	X	X	
	F15DF.1	X			X	X		X	X	X	
	F15DF.2		X		X	X		X	X	X	
	F15DF.3			X	X	X		X	X	X	
Competitor		X									
0-25% oil-based coolant				26-85% oil-based coolant				Any Coolant w/floating swarf			

\*Our recommendations can be matched using the color codes. However, coolant types have various oil-rejection capabilities. A separation test of your blend will verify its ability to reject tramp oils, especially as it ages. The Muscle will only remove oils which naturally gravity separate in 15-20 minutes. Contact us for details.

\*\*May be ordered as accessory if not standard within the package

\*\*\* (5) 100µ bags standard: 50, 25, and 5µ bags available - please specify

Muscle Series equipped with centrifugal pumps standard. Air or electric diaphragm pumps are available as an optional upgrade by ordering as an additional line item (Part numbers FXP18 and FXP51, respectively). Contact us for details.