

Biodegradable **Mainstream Marine Descaler** quickly dissolves barnacles, bio-growth, water scale, lime, rust, and other water-formed deposits. **Includes metal protectants to reduce future corrosion.**

*Fantastic for flushing marine engines and A/C systems...*

Safely restores equipment to full efficiency and opens flow passages.

**Unique Color Indicating Chemistry** turns from **red to yellow** if more descaling solution is needed!

**Complete Flush and Descaler Kit Includes:**

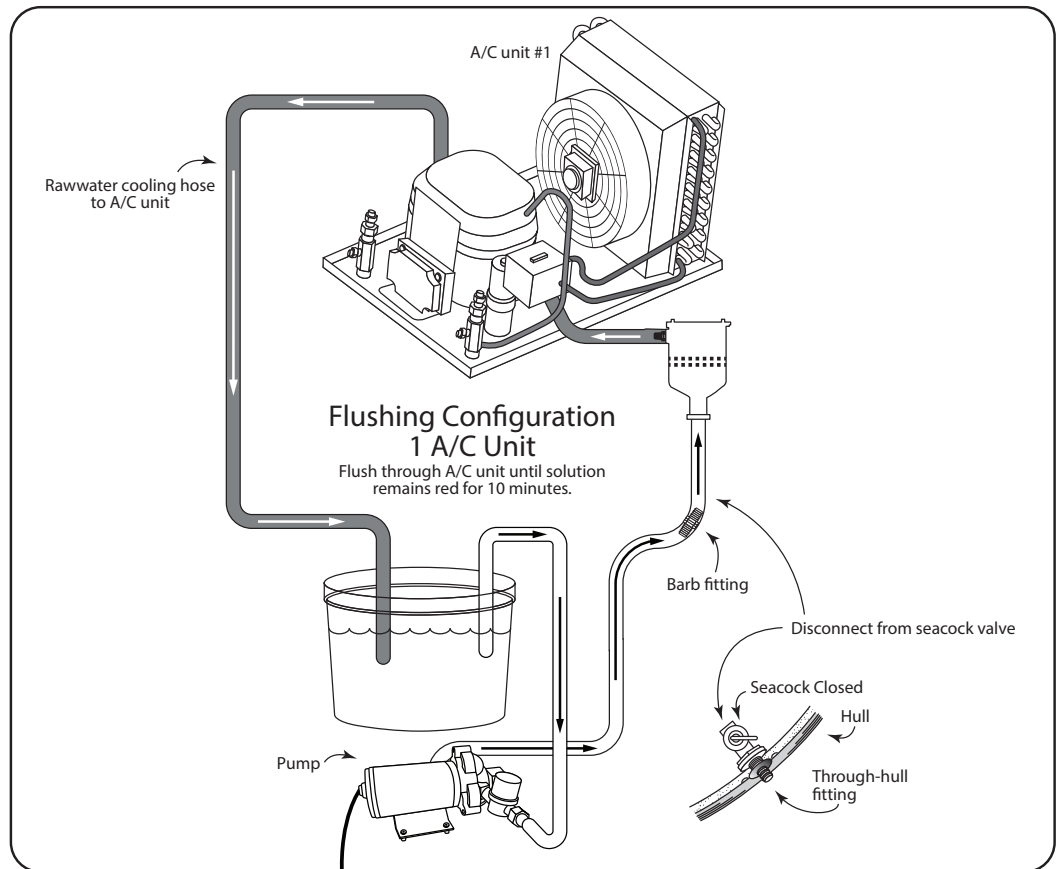
- ▶ 1 Quart Concentrated Descaler Solution
- ▶ 1/2" Barb to 3/4" Barb
- ▶ Mixing Bucket
- ▶ 1/2" Barb to 1/2" Barb
- ▶ Circulation Pump
- ▶ 1/2" Barb to Male Garden Hose Thread
- ▶ (2) 5 ft Hoses for Flushing (1/2" ID, 5/8" OD)
- ▶ Pump Inlet Strainer
- ▶ (3) Hose Clamps

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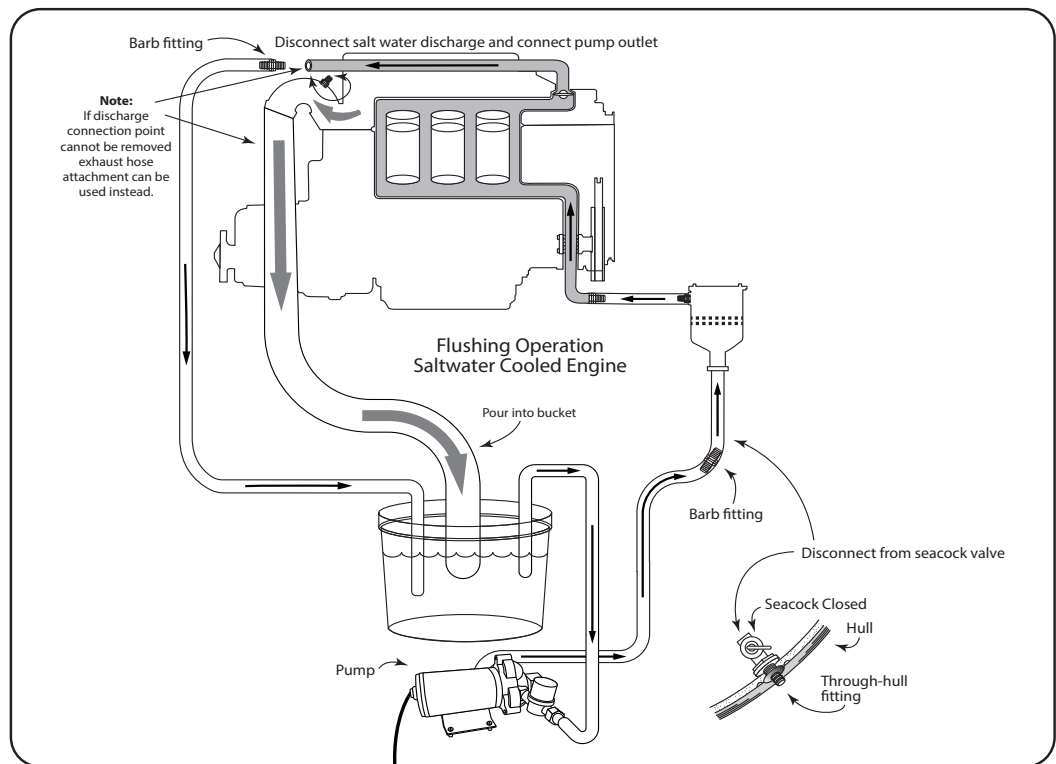
**Instructions:**

1. Put on appropriate safety protective equipment, including gloves, safety glasses with eye shields, and protective apron.
2. Turn item being descaled off. If the item uses electrical power such as an air conditioner or refrigerator, disconnect power to the device.
3. Place the **pump** near to **bucket** (both supplied in the flush kit) and use the pump to flow the descaling solution through the coolant loop and then back into the same bucket (Flushing the solution around the loop for at least 10 minutes.)
4. Exact flushing configurations vary per application. See drawings to the right for examples of possible flushing configurations.
5. For outboards, if a hose fitting for engine flushing is not part of the outboard, an ear-muff-type flushing fitting (not supplied) will be necessary.
6. Mix sufficient **MM Descaler** flushing solution to fully submerge the pump inlet hose with the diluted flushing solution. Can be used full-strength or diluted up to 4 parts water to 1 part **MM Descaler**. Additional quarts (p/n **MM7712**) or gallons (p/n **MM7710**) of concentrated Descaler flushing solution may be required for large systems. Be sure to have enough solution to keep the pump inlet hose submerged when in use.
7. Plug pump into grounded ground-fault receptacle.
8. Allow the pump to circulate **MM Descaler** solution through for 10-15 minutes. If the red **MM Descaler** solution turns yellow at any time then add additional **MM Descaler** to the bucket to get the red color back again and operate at least 10 minutes more. The system is clean when the red color is retained for at least 10 minutes. When completed unplug pump before removing any hoses.
9. Completely disconnect the flushing hoses, draining any solution into the bucket.
10. Remove the pump inlet hose from the bucket, draining any solution into the bucket.
11. Discard the used **MM Descaler** solution.
12. Refill the bucket with fresh water and flush the system for 2-3 minutes after the water flows clear.
13. Disconnect the hoses.
14. If any hoses were removed to attach the flushing hoses, replace them and check for leak-tight connections.
15. Flush systems at least annually, more frequently if biological growth or flow restrictions are evident.

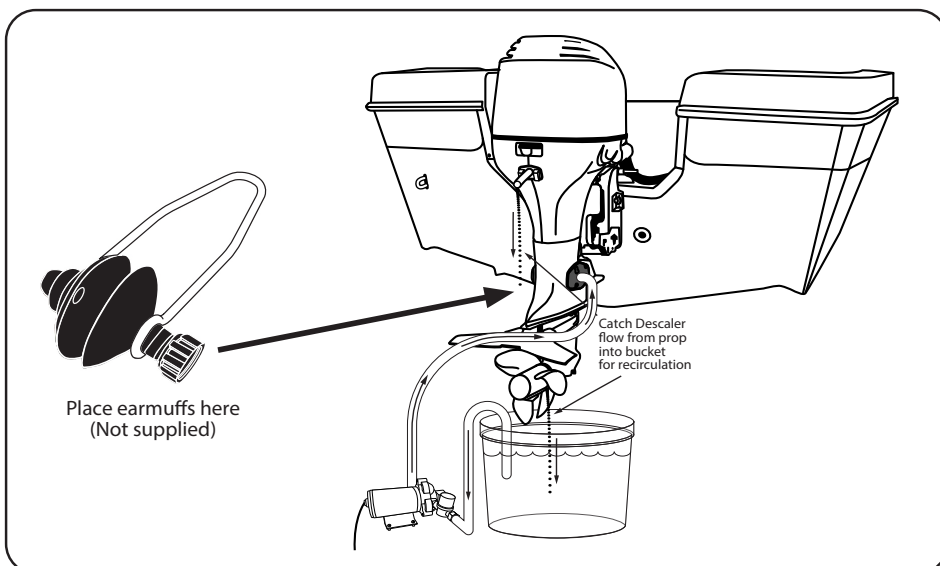
**Configuration for Flushing Marine A/C Unit**



**Configuration for Flushing Salt-Water Cooled Engine**



**Configuration for Flushing Outboard Engine with Earmuffs**



**Configuration for Flushing Outboard Engine without Earmuffs**

