

# HYDRODYNAMIC CAVITATION SYSTEM



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Easy installation that can be accomplished with a few simple tools

## ITEMS NEEDED FOR INSTALLATION:

-  Saw
-  Deburring tool
-  Measuring tape
-  Marking pen
-  PVC primer
-  PVC cement

## OPTIONAL ITEMS FOR INSTALLATION:

-  PVC elbows
-  PVC fittings
-  PVC pipe towel

## MAINTENANCE OF THE HDC DEVICE:

The HDC Device requires no regular or scheduled maintenance at all! It contains no moving parts and is constructed of Poly Vinyl Chloride (same PVC as the plumbing). The HDC Device has no filter(s), it uses no chemicals and it requires no electrical supply nor grounding due to the lack of metal parts.

The HDC Device comes with 2 Schedule 40 unions that we recommend for installing on to each side of the HDC Device to enable easy removal, inspection, or cleaning if something were to get through your filtration system and or clog the HDC Device. In the unlikely event The HDC Device is clogged for any reason, you would turn the pump off (and lock it out) then loosen the unions, flip the HDC Device 180 degrees and run the water through it backwards for 5 minutes to dislodge debris. Then you could reinstall the unit back as it was originally installed.

## BEFORE FITTING THE HDC DEVICE:

Turn off and lock out the pool pump. Make sure the piping is not under pressure.

## STEP 1

Measure, mark, and cut the 2" pool piping in the return line of the pool. Clean and remove any burrs or debris from all pipes after cutting, then install the unions onto the plumbing.



After pipe is cut and unions have been glued in place

## STEP 2

Slip the HDC Device into the line and tighten the unions snug only, (as per the union manufacturer's instructions) do not over-tighten.



After device is fitted and connections are made

## STEP 3

Wait until the cement is dry, then turn pump back on, checking for leaks and proper system operation.

### WARNING:

Turn off and lock out the pool pump! When working with PVC cement following manufacturers use instructions and recommendations. Be sure to avoid heat and flame and ensure proper ventilation when working with PVC primer/cement. The HDC Device must be the last component in the water treatment and circulation loop (i.e. after the pump, filter, heater, chemical feeder etc.) and it must be installed closest to the water return of the pool. If the return line length is too short to accommodate The HDC Device, use elbows and additional lengths of PVC to create the space. The HDC Device should only be installed by a qualified pool and spa professional or plumber. The HDC Device must be installed on the pool system's return line. The HDC Device works at any angle, horizontal, vertical or diagonal, gravity has no effect upon the HDC Device. Remove the HDC Device from its packaging. Check the IN and OUT water flow direction as per the label. Inspect the contents, including the schedule 40 unions that come with each HDC Device. Install the first half of the 2--each schedule 40 unions (using PVC Primer and Cement as per the solvent cement manufacturer's instructions) onto the HDC Device and measure the full length of The HDC Device with the Unions. Be smart and efficient, measure twice and cut once.

