

Thank you for purchasing the Calumet Archival Print Washer. It has been designed to give you the best possible results in a final wash and years of reliable service.

**DIRECTIONS FOR USE**

**Placement & Hook-up :** It is important that the washer be placed on a strong level surface (water weighs about 62.5 lbs. per cubic foot). The washer can be placed inside or outside a sink but, leave enough room for for the hoses to lie without kinking.

The smallest hose is the entrance hose and comes with an adapter for a garden hose thread on your faucet. Connect the smallest hose to the "T" fitting. The entrance hose also has clamps to keep the fittings tight. They are tightened by squeezing the ends with a pair of pliers. The black fittings must be threaded into the washer snugly. You may want to line the threads of the fittings with teflon tape (available at your local hardware store) to make sure they are snug. The hoses provided can be cut, if need be, but leave at least 10.. inches on the bottom exit hose for proper siphoning of water. If a hose needs replacement, all diameters are standard and can be purchased at a local hardware store.

Hose sizes are as follows: entrance hose -3/8 in. I.D.  
exit hose - 1/2 in.I.D.  
overflow hose- 3/4 in. I.D.

We also recommend the purchase of a shut off valve to be placed between the entrance hose and your faucet. This attachment will make it easier to repeat flow rates of water.

**Filling:** A clip is provided at the end of the exit hose. Close it completely before you fill the washer (also close the clip when the water supply has been turned off). When the water reaches to the top of the divider, open the clip on the exit hose and turn the water pressure up or down until water is barely flowing into the overflow chambers ( unless of course you would like a greater exchange rate of water).

The exit hose and the overflow are both to be used to regulate the flow rate of water exiting the washer. By opening the clip at different points and letting more or less water flow through the overflow, one can get a water flow rate of water from .5 gallons per minute to 2 gallons per minute. 1 to 2 gallons per minute is the recommended rate, which is the exit hose all the way open and very little water coming into the overflow chamber (1 gal.for the 8x10 up to 2 gal. for the 20x24). Remember, the washer can remain filled if you close the clip and turn off the water. Before placing prints into the washer for the first time, allow the washer to run for a few minutes to make sure that any dust or other particles are cleared from the washing chambers.

**Print Placement:** Totally submerge prints. Don't exceed your washers print capacity. Print capacities are as follows:

CA810 12-8 X 10, 24-5 X 7

CA1114 12-11 X 14, 24-8 X 10

CA1620 12-16 X 20, 24-11 14

CA2024 12-20 X 24, 12-16 X 20, 24-11 X 14

Don't place prints back-to-back or face-to-face; they won't wash well. Since the dividers are removable, you may want to use them to carry your prints (one at a time) to the washer. To keep the prints from sticking to the divider walls in the washer, use the "print wand" which is included. The rubber end of the print wand is used for removing smaller prints from the washer. Divider covers are also included to prevent prints from floating and to keep the dividers evenly spaced.

**Washing Time:** There are many factors which affect a specific time needed to achieve an archival wash (i.e. paper type, processing procedure, water temperature, etc...). If you follow ANSI recommended procedure of using two fix baths, hypo clearing agent, and then wash at 1 1/2 gallons per minute... between 45 and 60 minutes time will bring your prints well below ANSI's .7mc<sup>2</sup> of hypo maximum level for permanence. KODAK's HT-1 Hypo Estimator Kit and DuPont's Washtest 1-WT (found in Morgan & Morgan's Lab Index) are two easy ways of testing your prints for permanence.

**Maintenance:** "Photo-Flo" added after you've completed a wash, removes most of the water marks when washer dries. If the water jets should clog with water deposits, a pipe cleaner or straight pin will clear this problem. If you need to wash your print washer you can use dish washing detergent. DO NOT use any cleaner that contains acid or ammonia, you will run the risk of damaging your washer. The floor is removable and can be lifted out by inserting an allen wrench in one of the holes in the far end of the washer.

Calumet will repair and/or replace all defects caused by the manufacturing process which hinder the performance of the washer for five years. If you have any questions, please write or call us .

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