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## Safety Information Sheet

# KINETIC WATER RAM

## OPERATING INSTRUCTIONS

### General Operating Instructions

1. Go to the drain or clean-out closest to the stoppage.
2. The Water Ram must hit a solid column of water, not air. If a pipe is only partly blocked and drains slowly, turn the faucet wide open so that water is supplied faster than it can drain off. If this doesn't provide enough water to create the required column of water, use the Check Valve Assembly. (See "Clearing Slow Draining Sinks and Tubs")
3. Pump the Ram up to 10 lbs. of pressure to start.
4. Wedge the tip of 4" Rubber Cone into the drain. If this will not provide a tight seal, use other attachments shown in Specific Applications.
5. To avoid splash back, **press down firmly**, putting your weight behind the Ram. Then, SNAP trigger quickly for trip hammer effect.
6. Blockage will break up on impact.
7. If the blockage persists, gradually increase the pressure by 10 lb. increments until the blockage has been cleared. Most lines can be cleared using only 20 to 40 lbs of pressure.
8. Follow by flushing thoroughly with water to carry off waste particles.

## SPECIFIC APPLICATIONS

### Sinks

In sinks you must block the overflow vent with a wet rag or towel before firing the Water Ram to prevent splash back. Apply pressure to the rag or towel at the moment when you snap the trigger. There must be some water in the basin, so that the nozzle of the Ram is under water when placed in the drain opening. Use low pressure at first to make sure you have splash back under control, then increase in 10 lb. increments until the stoppage has been cleared. Flush the line with warm water. To unclog double compartment sinks, use the Water Ram in the sink section leading directly into the trap and stack. To avoid splash back, seal off adjacent sink using an expansion plug. If you do not have an Expansion Plug, block the adjacent drain by covering firmly with towel or rag.

### Bathtubs

Remove the pop-up cover from tub drain and position the Water Ram. Use low pressure at first to make sure splash back is under control. Make sure there is some water in the tub so that the tip of the Ram is under water when placed in the drain opening. If the water is draining too quickly, see "Clearing Slow Draining Sinks And Tubs." If you're having difficulty with splash back, follow the same procedure as for clearing sinks. Remove the overflow screen and push 8 to 10 inches of thin, wet rag down the overflow and replace the screen. In some tubs, excellent results can be obtained by combining the caulking hose with the tapered Rubber Cone.

1. Unscrew the pop-up lever on the tub.
2. Thread the Lock Nut up the spindle two inches.
3. Thread the Rubber Cone back to the Lock Nut.
4. Thread the Caulking Hose onto the spindle, just in front of Cone.
5. Insert the Caulking Hose into the pop-up valve opening. This will aim the kinetic force directly down the drain. Be sure to cover the drain opening before snapping the trigger.

## KINETIC WATER RAM pg 2

**Clearing Slow Draining Sinks And Tubs** Turn the faucet wide open so that water is supplied faster than it can drain off. If this doesn't provide enough water to create the required column of water, use the optional Check Valve Assembly (G-CVK) as follows:

1. Remove the 4" Rubber Cone from the end of the Water Ram.
2. Thread the Check Valve Attachment onto the end of the Ram.
3. Thread the 4" Rubber Cone, or the appropriate size Tapered Plug or Expansion Plug, onto the end of the Check Valve Assembly.
4. Thread the Faucet Adapter or Threaded Adapter onto one end of the Water Supply Hose, then attach it to the faucet. Thread the other end of the hose to the Check Valve Assembly.
5. Place the tip of the Ram into the drain and pump it up to the desired pressure.
6. Turn the faucet wide open so that water is supplied faster than it can drain off.
7. With the tip of the Rubber Cone firmly sealing off the drain opening, the water from the faucet flows through the Check Valve Assembly and enters the pipe, then rises in the stack or vent. This creates a head pressure that helps the Ram clear the blockage.
8. Be sure to turn off the faucet before snapping the trigger.

### Toilets

Toilet bowls have an oval shaped opening that can make it difficult to form a good seal around the 4" Rubber Cone. It often helps to stuff a rag around the cone. A better solution is to use an optional Toilet Attachment (KR-CA). To use the Toilet Attachment:

1. Remove the 4" Rubber Cone from the end of the Water Ram.
2. Thread the Toilet Attachment onto the end of the Ram. Tighten the Lock Nut to secure the Toilet Attachment in position.
3. Hold the Ram over the bowl and press the Rubber Cone into the opening. Tilt it back to allow the cone to seat properly.

Start with a small amount of pressure at first to make sure splash back is under control. Press down firmly, putting your weight behind the Ram and snap trigger. If low pressure is not successful, increase it in 10 lb. increments until the line has been cleared.