



ALLIED PRECISION INDUSTRIES, INC.
705 E. North Street
Elburn, IL 60119

INSTRUCTIONS FOR KOZYFILL™ Model 7KF Setup and Operation

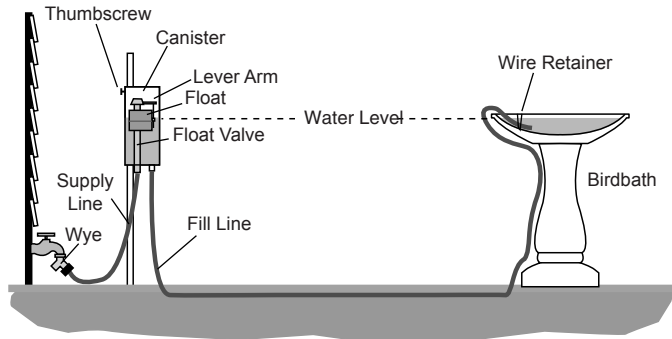


Figure 1

KOZYFILL PARTS

- Assembled Canister with Cap and Thumbscrew
- Three (3) pole sections
- 50 ft. of tubing
- Faucet wye with shutoffs
- Faucet-to-tubing Push-in Connector
- Two (2) Wire Mounts
- Bubble Separator T-connector with Fill Tube and Air Tube
- Fill Valve Nut
- Cone Washer

KOZYFILL SETUP

Please read all setup instructions before beginning.

Mount the Canister

1) For best operation, position the KozyFill canister behind a tree or bush within approximately 20 feet of the birdbath. (Placing it farther away may result in slower filling.) Tap the stake firmly into the ground at the desired point and insert the two pole sections such that the assembled pole is vertical. Also, unwind the tubing from the Canister and lay it in the sun to straighten.

2) Push one end of the tubing into the Fill Line Connector on the bottom of the Canister (see Figure 2). Make sure it is pushed in all the way. Lay the coil of tubing on the ground for now.

3) Slide the Canister onto the pole and lower it until the middle of the Canister is approximately the same height as the rim of the birdbath. Tighten the Thumbscrew to hold the Canister in place (refer to Figure 1).

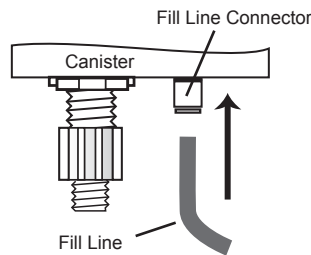


Figure 2

Attach the Fill Line

4) The Bubble Separator with the Air Tube and Fill Tube is shown in Figure 3. Using the two Wire Mounts, attach the Air Tube and Fill Tube to the side of the birdbath as shown in Figure 4 by bending the Wire Mounts to fit the side of the birdbath (see Figure 4). It is important that the T-connector be suspended **below** the birdbath basin. The Fill Tube exits from the side of the T-connector and should be mounted such that it hugs the rim of the birdbath as depicted in Figure 5. It may be cut to a convenient length as needed. The Air Tube should be positioned, or trimmed, so that it extends one inch above the Fill Tube where it crosses the rim (see Figure 4).

IMPORTANT: Over time, air bubbles form in the Fill Line and are trapped at the point where the Fill Tube crosses the rim of the birdbath. The resulting air pocket can cause the Fill Tube to lose prime and cease operation. The Bubble Separator is designed to remove these bubbles from the water stream before they can collect in the Fill Tube, however, some bubbles may form in the Fill Tube itself. For uninterrupted operation, you should reprime (see Step 17) the system once a week, or as needed, to flush any bubbles out of the Fill Tube.

5) Uncoil the Fill Line tubing (from Step 2) along the ground to the birdbath and up the side. Add 20 inches and cut the tubing at that point. Use the surplus tubing for the Supply Line in Step 6. **Do not insert the Fill Line into the Bubble Separator. Lay it on the ground until Step 11.**

Connect the Supply Line

6) Slide one end of the Supply Line (the left-over tubing from Step 5) through the Nut and the Cone Washer (see Figure 6) and insert it into the end of the Float Valve neck. (Make sure the Cone Washer is oriented as shown.) Tighten the Nut securely.

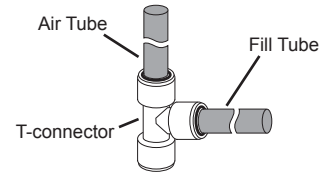


Figure 3

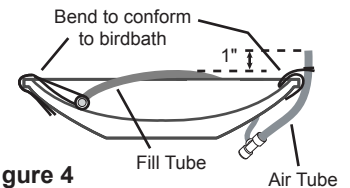


Figure 4

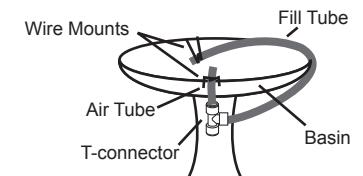


Figure 5

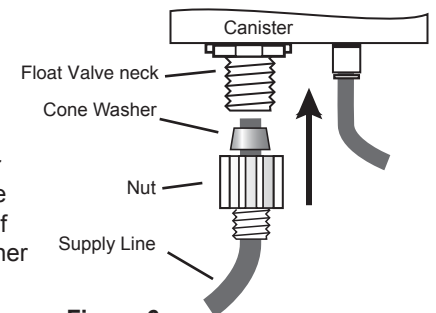


Figure 6

CONTINUED ON THE BACK

Connect the Supply Line, con't.

7) Attach the Wye to the outdoor faucet and screw the Push-in Connector to one side of the Wye (refer to Figure 7). Close the Wye Shut-offs.

8) Cut the Supply Line to length and insert the end of the Supply Line into the Push-in Connector (refer to Figure 7). Make sure it is pushed in all the way.

NOTE: If not enough tubing is left for the Supply Line to reach from the Canister to the faucet, you may purchase additional semi-rigid, 3/8 inch O.D. tubing from a hardware store or home supply store.)

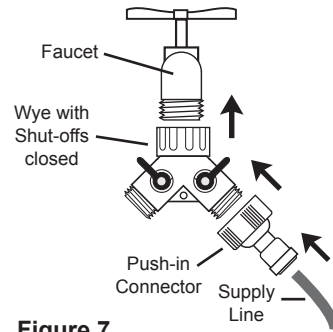


Figure 7

Adjust the Canister height

9) Slowly turn on the faucet (see Figure 8). Make sure that both Shut-offs on the Wye are fully closed.

10) Open the Shut-off on the Supply Line side of the Wye (see Figure 8) until you detect water starting to flow. Limit the flow to a small stream by looking inside the Canister. **Make sure the pressure does not push the Supply Line out of the Float Valve connection.** If it does, repeat Step 6 and tighten.

11) Go to the birdbath and pick up the end of the Fill Line that was left laying on the ground in Step 5. Hold it high enough so that no water comes out the end.

12) Once the Float Valve shuts off, **slowly** lower the end of the Fill Line until water begins to flow out the end. When that occurs, stop and measure the height from the end of Fill Line to the rim of the birdbath (see Figure 9). Record the measurement.

13) If the end of the Fill Line is **above** the rim of the birdbath when the water starts to drip out, loosen the thumbscrew on the Canister and **lower** the Canister by the amount you measured in Step 12 plus 1/2 inch. (For example, if you measured 3 inches in Step 12, lower the Canister $3 + 1/2 = 3 1/2$ inches.) If, however, the end of the Fill Line was **below** the rim of the birdbath, **raise** the Canister by the amount you measured in Step 4 minus 1/2 inch. (For example, if the end of the Fill Tube was 2 inches below the rim of the birdbath, raise the Canister $2 - 1/2 = 1 1/2$ inches.)

14) Repeat Steps 12 & 13. The Canister height is properly set if the water just begins to come out the end of the Fill Line when the end of the tube is approximately 1/2 inch below the rim of the birdbath (see Figure 10).

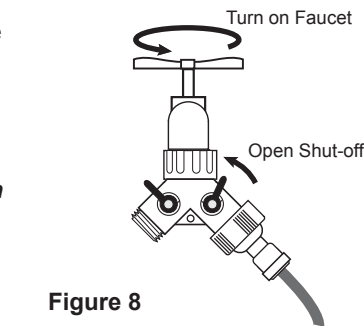


Figure 8

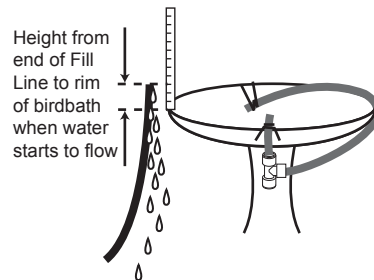


Figure 9

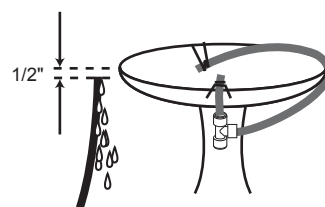


Figure 10

Attach the Fill Line

15) Push the Fill Line all the way into the bottom of the Bubble Separator (see Figure 11). No water should flow into the birdbath at this time.

Note: If you plan to clean the birdbath and reprime (Step 17) the system every couple days, the Bubble Separator and the Fill Tube may be omitted, and the Fill Line can be run directly into the basin.

16) Check the system for leaks. Make sure all the connections are snug and that the tubes are securely pushed into all connectors. If desired, the Fill Line may be buried at this time.

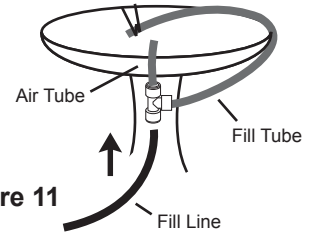


Figure 11

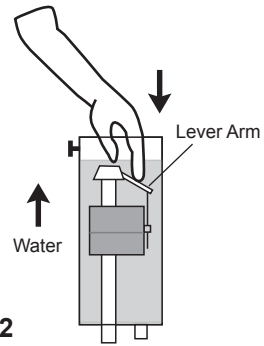


Figure 12

Prime the system

17) The KozyFill is now ready for operation. Remove the cap from the Canister and locate the float Lever Arm. Depress the Lever Arm so that water flows into the Canister (see Figure 12). Hold the Lever Arm down until the Canister is completely

Operation

The water will flow slowly into the birdbath. Depending on the distance from the Canister to the birdbath, it may take a couple hours for the bath to fill initially. Afterwards, it will add water as it is used.

If the birdbath basin tilts or is removable, the water may be dumped and the KozyFill will refill the basin as long as the prime is not lost in the Fill Tube. To avoid losing prime, do not raise the basin when dumping it, but rather, tilt it to the side where the Fill Tube crosses the rim to let the water run out.

Maintenance

The KozyFill should be inspected regularly to insure that the float is free to move and all connections are watertight. The pole should also be inspected to make sure it is secure.

Be sure to clean the birdbath regularly. You should reprime the system (see Step 17) whenever you clean the bath to flush out any bubbles that may have accumulated.

Notes

The adjustment screw on the Lever Arm inside the Canister may be used to make minor height adjustments. It is normal for the water level to vary slightly around the set point.

In some communities the water pressure builds up overnight which may cause the bath to fill slightly higher than normal or overflow on occasion. Adjust the level as needed.



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INSTRUCTIONS FOR ATTACHING KOZYFILL™ WIRE RETAINER CLIP

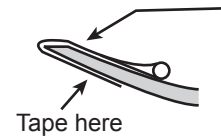
Materials Needed



PLIERS



WIRE CLIP



Use pliers to bend clip to tightly follow the profile of the bowl. In some bowls, you may need to tape the legs to the underside of the bowl.

Figure 4 Shallow bowl

Mounting the Fill Tube

Two wire clips and two extras are provided with the KozyFill for mounting the Fill Tube and Bubble Separator to the Birdbath. The clips are made from stainless steel and are stiff to attach tightly to the birdbath. Because of that, pliers should be used to form the retainer clip to grab the birdbath.

Note: Use pliers to bend the wire clips to attach to the birdbath.

Birdbaths come in a variety of shapes and sizes. The drawings below show some recommended ways to bend the wire clip for various birdbath rims.

Use pliers to open the bend and then rebend the turn to form a pinch point

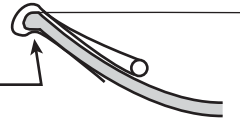
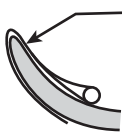


Figure 1 Bowl with slight lip



Use pliers to bend clip to tightly follow the profile of the bowl.

Figure 2 Curved bowl with no lip

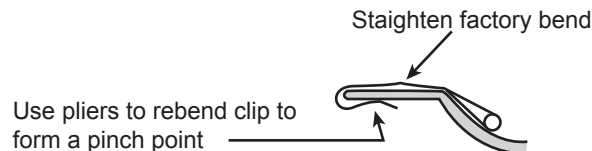


Figure 3 Bowl with flat shoulder

In some bowls, the clip may not fit at all. In that case, purchase insulated, 12 gauge, solid, copper wire at a hardware store and bend to fit.

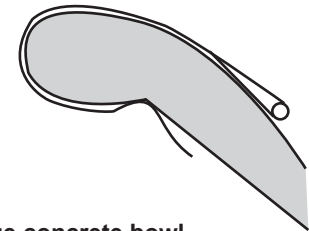


Figure 5 Large concrete bowl