



Installation Instruction Manual

DRIP WATERING KIT FOR THE PATIO; HANGING BASKETS, POTS AND PLANTERS

Model FM01AS with Backflow device
Model FM01 without Backflow device

INTRODUCTION

THANK YOU for purchasing the DIG model FM01 or FM01AS Drip Watering Kit. Please take the time to read through the enclosed instructions and follow them step-by-step. If you have any questions, please call our customer service line at 1-800-344-2281. Use model FM01 or FM01AS Drip Watering Kit to maximize your efficient use of water and to promote abundant growth in your planters, potted plants or baskets. If you decide to expand your system, all the necessary parts are available individually.

ABOUT YOUR DRIP WATERING KIT:

DIG provides you with a Drip Watering Kit for hanging baskets, pots and planters. This kit contains all the necessary parts to install a drip system for up to 10 (8-10") pots or baskets. Note that 2 emitters should be used for larger pots (12-18"). This drip kit can be easily expanded to irrigate of up to 20 (8-12") pots or baskets.

Before the installation, familiarize yourself with all the parts in this kit. See the part list and description at the end of this instruction manual and on the back of the box.

Important: If the pressure in the system exceeds 25 PSI, add a pressure regulator # 4, model D46 (not included).

PLANNING SUGGESTION

Determine the number of pots or baskets you need to water, taking into account that pots greater than 12" need two or more drip emitters.

Option1: For baskets up to 10" use one dripper per pot. To do this, run the 1/4" micro tubing mainline to the pot or basket. Cut the micro tubing near the pot or basket and add a 1/4" tee. To the tee add an additional section of micro tubing, which becomes the feederline. Run the micro tubing feederline into the pot or basket about 1" from the plant. Insert a dripper into the end of the micro tubing and secure the dripper with tubing holder stake.

Option 2: For larger baskets (12-18") install 2 drippers per pot. To do this, run the 1/4" micro tubing mainline to the pot or basket. Near the pot or basket cut the micro tubing and add a 1/4" tee. To the tee connect a length of micro tubing, which becomes the feederline. Run the micro tubing feederline into the pot or basket. Inside the pot or a basket split the micro tubing into two feederlines using an additional 1/4" tee and two pieces of micro tubing 3-5" length. At the end of each micro tubing feederline add one dripper and secure the dripper using the tubing holder stake.

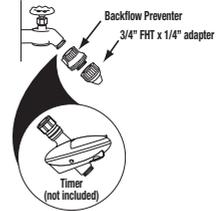
Ideally when everything is connected and running, each pot on a system should begin to drain water at about the same time. If this is not happening, it is usually because there are various pot sizes. A 1/4" valve can be added to control the flow to each pot or section of pots. When planning out your system, it is common to group like size containers on one line, sectioning out the pots. In this situation, a single 1/4" valve can control the flow to a number of similar sized pots. If this is not possible because of the layout of the pots, which is common, a 1/4" valve can be added to each line to individually control the water to the pots. This ball valve will allow you to adjust the flow by turning the knob to either side.

Note that there are 2 ball valves available in the kit. If more ball valves are needed, use Model D33A, Part #65.

INSTALLATION

Step 1: Faucet (Hose End) Installation:

Begin the installation at the water source by attaching the backflow device if included (Model FM01AS) to the faucet. If you decide to automate your system use a Hose End Battery Operated timer (not included) and connect the timer to the faucet and the backflow device to the timer. Thread the 1/4" FHT x 1/4" adaptor with the screen facing towards the backflow device or if the backflow device is not included (model FM01) connect the 1/4" FHT x 1/4" adaptor directly to the faucet. If a pressure regulator is required (not included) attach the 3/4" adaptor to the pressure regulator and then to the backflow or to the faucet.



Step 2: Microtubing Placement

a) Unroll the 1/4" micro tubing and lay it out in the area of the planters, containers and baskets to be watered.



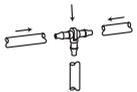
Step 3: Connect the 1/4" FHT Adaptor to the 1/4" Microtubing

a) Connect the 1/4" FHT x 1/4" adaptor to the micro tubing by forcing the micro tubing into the fitting while moving the micro tubing from side to side.



Step 4: Connecting the 1/4" Tee

- a) A micro tubing mainline serves as the primary line that runs water to all the plants. Near each container, basket or planter cut the 1/4" micro tubing mainline and insert a 1/4" tee (soaking the micro tubing in hot water will ease installation.) Leave the ends of the 1/4" micro tubing open so you can flush the line before completion.
- b) A micro tubing feeder line runs the water to each individual plant. Add a micro tubing feeder line from the center of the basket or pot to the 1/4" tee.
- c) Connect one end of the micro tubing feederline to the 1/4" tee, which is connected to the 1/4" micro tubing mainline.



Step 5: Connect 1/4" Ball Valve (optional)

a) To control the flow rate, 2-4" from a large container or basket cut the feeder line (micro tubing) and attach a 1/4" ball valve to allow you to adjust the flow for individual containers or baskets. Note that if containers of similar sizes are grouped on one section of line, a single valve can be placed at the head of the micro tubing feeder line section to control the flow to multiple baskets.

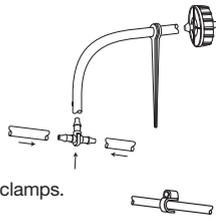


Step 6: Flush the Line

a) Turn the water on, and flush the line for 10-20 seconds to clean out any debris inside the system.

Step 7: Installing the Drip Emitters

- Insert the drip emitter into the ends of each piece of micro tubing.
- Attach a holder stake to the 1/4" micro tubing close to the dripper.
- Push the holder stake into the soil near the crown of the plant.



Step 8: Secure Micro tubing

- Secure the micro tubing to the patio, containers or planters using C-clamps.

Step 9: System Start Up

Begin by turning the water on. If used, adjust the flow on the 1/4" ball valve as needed by turning the knob.

NOTE: If each pot drains at different times (probably because they are different sized pots) you may want to consider using a 1/4" valve on each line. This will help control the flow so that each pot drains at the same time regardless of size.

When watering on a regular basis, it is ideal to allow very little water to drain out of the pots. This helps conserve water and generally keeps the area cleaner. After the initial start up you will want to determine how long the system should run each time to sufficiently irrigate the pots without excess runoff. To do this, run the system checking to see how long it takes all the pots to drain. We want to set irrigation schedules about 1-2 minutes less than it takes for the pots to drain. For example, let's say it initially took the pots 5 minutes to all begin draining. This means you will want to leave the system on regularly for about 3-4 minutes each time to minimize runoff. After a week check the soil, the health of the plants, and adjust the watering time as needed.

Make sure that the system is working correctly without any leaks.

KIT CONTAINS

1 backflow device, 1-1/4" FHT micro tubing adaptor with screen, 10 1-GPH PC drippers, 60' of 1/4" micro tubing, 9- 1/4" tee, 2- 1/4" barb, 10-1/4" tubing stake holders, 2- 1/4" ball valves, 10 1/4" C - clamps, and instruction manuals.

DIG CORPORATION 3 YEAR WARRANTY

DIG CORPORATION warrants these products to be free from defects in material and workmanship for a period of three years from date of purchase. This warranty does not cover damage resulting from accident, misuse, neglect, modification or improper installation. This warranty shall extend only to the original purchaser of the product for use by the purchaser. The obligation of DIG CORPORATION under this warranty is limited to repairing or replacing at its factory this product which shall be returned to the factory within three years after the original purchase and which on examination is found to contain defects in material and workmanship.

DIG CORPORATION SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND; THE SOLE OBLIGATION OF DIG BEING LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Unattended use for prolonged periods without inspection to verify proper operation is beyond the intended use of this product, and any damage resulting from such use shall not be the responsibility of DIG CORPORATION. There are no warranties which extend beyond the description on the face hereof. In the case of purchase of the product for use other than, for irrigation purposes, DIG CORPORATION hereby disclaims any implied warranties including any warranties of merchantability and fitness for a particular purpose. In the case of the purchase of the product for personal, family or household purposes, DIG CORPORATION disclaims any such warranties to the extent permitted by law. To the extent that any such disclaimer or implied warranties shall be ineffectual, then any implied warranties shall be limited in duration to a period of three years from the date of the original purchase for use by the purchaser. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

In order to obtain performance under this warranty, the unit must be returned to the factory, along with proof of purchase indicating original date of purchase, shipping prepaid, addressed as follows:

DIG CORPORATION, 1210 Activity Drive, Vista, CA 92081. Repaired or replaced units will be shipped prepaid to the name and address supplied with the unit returned under warranty. Allow four weeks for repairs and shipping time. Repair of damaged units not otherwise within warranty may be refused or done at a reasonable cost or charge at the option of DIG CORPORATION.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

CUSTOMER SERVICE:

1-800-322-9146 FAX: 760-727-0282



1210 Activity Drive
Vista, CA 92081-8510, USA

Website:
<http://www.digcorp.com>
e-mail: dig@digcorp.com

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