



UNPACKING AND SETTING UP THE E-Z FLOW FOAM-IN-PLACE SYSTEM

These brief instructions will help you to quickly and safely get started using your new E-Z Flow system. **Please read all instructions completely before beginning, and especially before operating the system.**

Unpacking

1. Carefully remove all items from the shipping container. Be careful not to kink the internally heated hoses!
2. Open the Controller unit, and visually inspect the connections to ensure that none came loose during shipment. Then close the Controller unit.
3. Check contents of package against Packing List. A complete system will consist of:
 - Electronic Controller Unit
 - Two Heated Hose Assemblies, with Heater Blocks
 - Dispensing Gun with one Cartridge
 - Set of two Drum Pumps (except pressurized systems)

Other configurations, or individual components, may have been ordered. Please report any discrepancies immediately.

Setting Up The E-Z Flow System

1. Install Controller unit on a convenient vertical surface, at eye level. Choose a place which allows easy access, and proximity to where the Heater Blocks and chemical containers will be.
2. Connect the BLUE (Resin) Heater Block to the Drum Pump (or pressure vessel) containing “B” chemical (resin), using the female swivel fitting on the Heater Block, and the Pump Adaptor fitting provided.
3. Connect the RED (Isocyanate) Heater Block to the Drum Pump (or pressure vessel) containing “A” chemical (Isocyanate), using the female swivel fitting on the Heater Block, and the Pump Adaptor fitting provided.
4. At the bottom of the Controller unit, there are two cables with connectors, one marked RED, the other BLUE. Attach these connectors to the mating connectors on the corresponding Heater Blocks. The Heater Blocks are marked with an “A” for RED and a “B” for BLUE.
5. Find the Air Hose Assembly. This will have three hoses coming from a manifold. Connect the longest hose to the 1/8” female threaded port in the back of the Dispensing Gun. Connect the other two hoses to the air inlets at the top of each Drum Pump. Find a male air fitting that will connect the manifold to your compressed air supply, but do not connect the air supply at this time.
6. Attach the end of the BLUE hose (farthest from Heater Block) to the RIGHT fitting of the Dispensing Gun, behind the BLUE knob marked “B”. Attach the end of the RED hose to the LEFT fitting of the Gun, behind the RED knob marked “A”. Tighten fittings.
7. Pressurize hoses TEMPORARILY to about 20 PSI, by applying pressure to pumps. This will allow hoses to fill without putting too much stress on the pumps. After hoses are full and pumps stop moving, increase air pressure to about 100 PSI.



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8. **NOTE:** Prior to dispensing chemicals, it is very important to purge all air from inside the hoses! Air pockets in the hoses can cause heater failure. It is very important to follow this procedure **BEFORE** turning on the electrical power to the heaters (gloves and protective eyewear should be used):
- A. Turn both Flow Control Valves on the Dispensing Gun to the “OFF” position.
 - B. Check to ensure that the Cartridge Holddown Knob is tight, and that the Cartridge is properly seated, with no gaps between the Cartridge and the Gun.
 - C. Remove the “A” Filter Nut from front of Dispensing Gun.
 - D. With the Gun aimed toward a waste container, turn the “A” (RED) Control Valve on the Dispensing Gun to the “ON” position, and bleed all air from the line, until a constant stream of “A” chemical is observed. The stream will “sputter” as the air comes out. When there is no more air in the line, **CLOSE** the “A” Control Valve and replace the “A” Filter Nut, making sure the Filter Screen and O-Ring are in place, and tighten.
 - E. Repeat this procedure with the “B” side, turning the Control Valve to the “OFF” position, removing the Filter Nut, aiming at a waste container, purging air from the line, closing Valve, and replacing and tightening the “B” Filter Nut.
 - F. Connect the Controller unit to a power source, if this has not already been done. The 110V unit may be plugged into any standard wall outlet. The 220V unit comes with an L6-30P plug; if another termination is desired, please consult a qualified electrician.
 - G. Turn Controller unit’s switch to “ON”. The factory temperature settings for the Heated Hose Assemblies are 135 degrees F for the “A” hose, and 155 degrees F for the “B” hose. To change these settings, please to the separate Controller Unit Instructions contained in this package.
 - H. Wait for the indicated temperature to reach the desired level before attempting to dispense chemical.

You should now be ready to dispense the chemical. With the Dispensing Gun aimed in a safe direction, preferably into a waste container for the first test, squeeze the trigger and allow a stream of chemical to emerge. If the mixture is not satisfactory, please review these instructions, or contact E-Z Flow Technical Assistance at (858) 279-FLOW (858-279-3569).



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Routine Operation

Once per week, or more often for heavy use:

1. Check that both Flow Control Valves on the Dispensing Gun are in the “OFF” position.
2. Remove Filter Nuts, and clean and inspect Filter Screens.
3. Loosen and remove Cartridge Knob (underneath Gun) and remove Cartridge.
4. Inspect ports of Cartridge, and clean with solvent and cotton swab, or “Slide” spray port cleaner.
5. Clean passage between Filter Well and Cartridge, with E-Z Flow provided cleaners, or pipe cleaners. Use a different cleaner for each side!
6. Clean the “saddle” where Cartridge rests, as needed. This area should be kept clean, so Cartridge can seat properly.
7. Replace small white O-Rings (E-Z Flow part #2101).
8. Replace Cartridge and tighten with Cartridge Knob.
9. Replace and tighten both Filter Nuts, making sure Filter Screens and O-Rings are in place. **Be sure to replace the Filter Nuts on the same sides they came from!**
10. Turn on air pressure and make sure hoses are pressurized, **BEFORE** turning on electric power.
11. Turn both Flow Control Valves on the Dispensing Gun to the “ON” position.
12. Turn on power to the Controller Unit, and wait for indicated temperatures to come up to correct levels.
13. System should now be dispensing properly.

NOTE: In case of a clogged Cartridge:

- A. Turn off Flow Control Valves
- B. Pull trigger to retract Valving Rod, and disconnect the compressed air supply
- C. Remove Cartridge Holddown Knob
- D. Lift out Cartridge with valving rod in open position
- E. Blow compressed air through nozzle of Cartridge, to dislodge clog. Check to make sure air is flowing equally through both ports
- F. Check the small white Teflon O-Rings between the Cartridge and the Gun; replace if necessary
- G. Flush surfaces of Gun Block with solvent. Scrape off buildup as necessary.
- H. Replace Cartridge
- I. Replace and tighten Cartridge Holddown Knob
- J. Reconnect air line
- K. Turn on Flow Control Valves
- L. Resume dispensing chemical



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WARNING: NEVER turn on the Controller unit, or apply power to the Heated Hose Assemblies, when Hoses are empty (unpressurized). Hoses **MUST BE FULL** and pressurized to operate! An empty or partially full Hose Assembly can cause failure or damage of Heater. Be sure input air pressure is 80-110 PSI. If using pressurized cylinders (instead of pumps), be sure pressure is set at 150-200 PSI. Also, do not set up the Hoses with loops that allow pockets of air to develop. A smooth curve, or suspension from a hose hanger, is best.