

Troubleshooting Chart:

Problem	Cause	Solution
1. No discharge	a. No water b. No power c. Clogged water inlet strainer	a. Open water supply b. Make sure solenoid is receiving signal from power source c. Shut off inlet water and clean strainer
2. No concentrate draw	a. Clogged foot valve b. Eductor clogged c. Low water pressure d. Excess back pressure e. Insufficient back pressure. f. Chemical source empty g. Inlet check valve not screwed into eductor tightly h. Clogged water inlet strainer i. Air leak in chemical supply tube	a. Clean or replace b. Clean (de-scale)* or replace c. Minimum 40 PSI (dynamic) required for system to operate properly with 20 PSI back pressure d. Reduce back pressure by moving discharge location or reducing flow near injection point e. There must be some back pressure for eductor to develop vacuum. A length of discharge tubing should be sufficient. f. Replace chemical source g. Tighten to prevent air leaks, but do not overtighten h. Disconnect inlet water line and clean strainer i. Put clamp on tube or replace tube if brittle
3. Failure of unit to turn off	a. Water valve parts clogged b. Control source not shutting off	a. Clean* or replace with valve parts kit b. Ensure that control source is properly set

* In hard water areas, scale may form inside the discharge end of the eductor, as well as in other areas of the unit that are exposed to water.

This scale may be removed by soaking the eductor in a descaling solution (deliming solution). To remove an eductor located in the cabinet, firmly grasp water valve and unthread eductor. Replace in same manner.

Alternatively, a scaled eductor can be cleaned (or kept from scaling) by drawing the descaling solution through the unit. Operate the unit with the suction tube in the descaling solution. Operate the unit until solution is drawn consistently, then flush the unit by drawing clear water through it for a minute. Replace concentrate container and put suction tube into concentrate.



- Package should contain:
1. Eductor System
 2. Supply Tubing 1/4"IDx7ft. per eductor
 3. Inlet/Discharge Tubing (1/2" x 100ft.)
 4. Injection Checkvalve (1 per eductor)
 5. Footvalve & Weight (1 per eductor)
 6. 24V AC adapter (1 per eductor)
 7. Mounting Hardware

THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS

Please use this equipment carefully and observe all warnings and cautions.

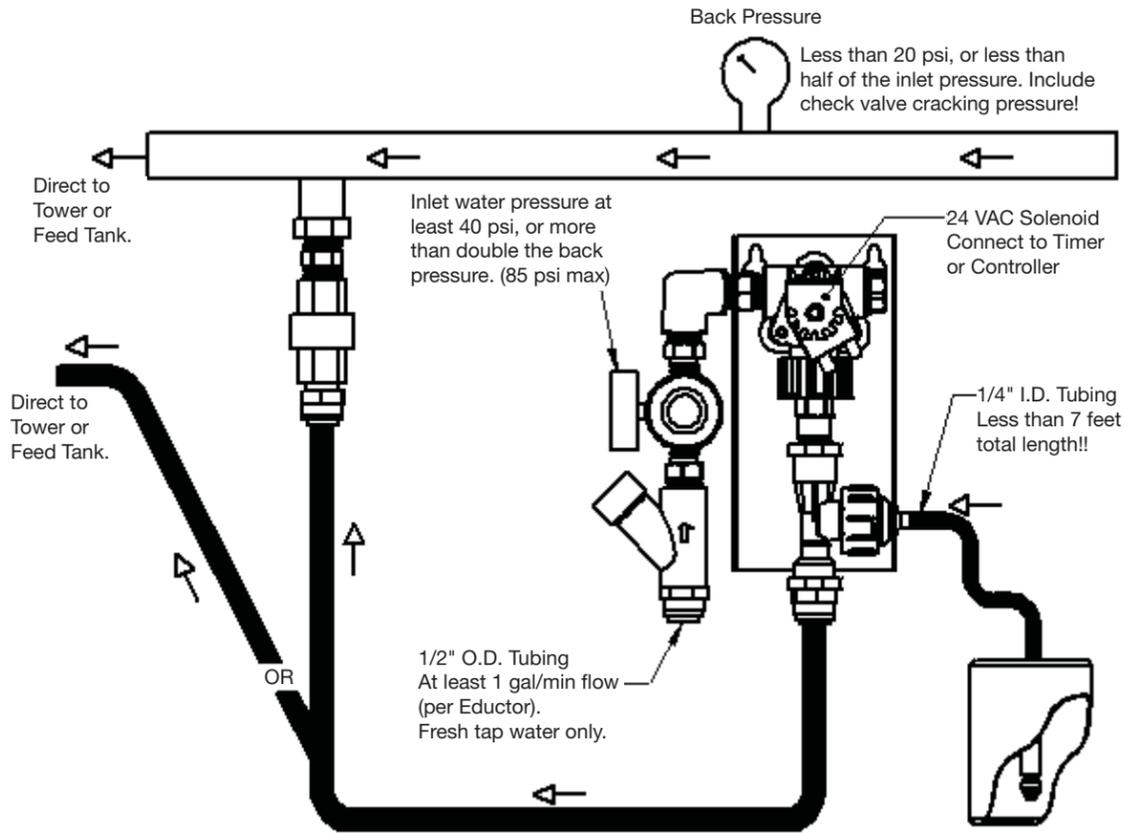
***** NOTE *****

- | | |
|---------------|---|
| WEAR | protective clothing and eyewear when dispensing chemicals or other materials. |
| ALWAYS | observe safety and handling instructions of the chemical manufacturers.
direct discharge away from you or other persons or into approved containers.
dispense cleaners and chemicals in accordance with manufacturer's. |
| KEEP | equipment clean after each use in accordance with instruction sheet. |
| WEAR | protective clothing and eyewear when working in the vicinity of all chemicals, filling or emptying equipment or changing metering tips. |
| ALWAYS | re-assemble equipment according to instruction procedures. Be sure all components are firmly screwed or latched into position. |
| ATTACH | only to tap water outlets (40 psi minimum to 85 psi maximum, 1 gal/min minimum). |

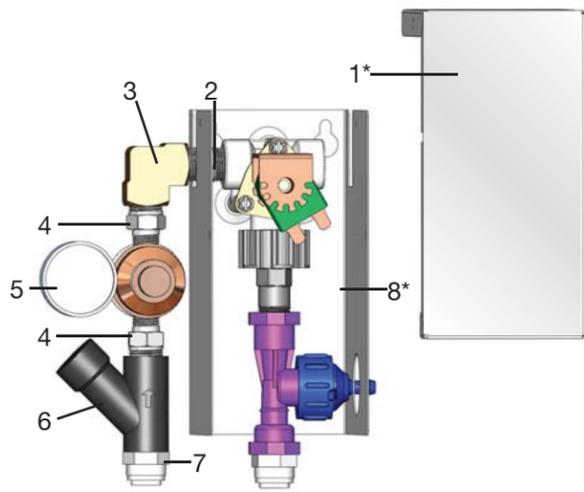
Installation and Operation:

1. Find a suitable place to locate system, refer to FIG.1 for detailed information.
2. Remove front cover to gain access to mounting holes.
3. Mark mounting holes. Drill 9/32" holes and install mounting anchors and screws. Slide key holes in cabinet back over screw heads, tighten screws, then install bottom screws.
4. Cut supply tubing provided into separate supply tubes for each product to be used. For solid dissolving system applications the supply tube should connect from the hose barb on the eductor check valve to the discharge port on the reservoir. For liquid drum applications cut supply tube to be able to reach the bottom of the liquid drum. Slide the ceramic weight over the tube and install a footvalve into the same end of the tube. Connect open end of supply tube to the hose barb of the eductor check valve.
Remember to check foot valve strainers periodically for clogging: Clean if necessary.
5. Connect inlet water supply using provided 1/2"OD tubing. Tubing should go from fresh tap water source to the inlet connection on the eductor system. Incoming pressure must be consistent and at least 40 psi.
6. Install the provided injection check valve into the injection port. Use thread sealant to ensure a leak-free seal. Note that this fitting is not needed for installations that go directly to the tower or makeup tank.
7. Connect discharge tubing using provided 1/2"OD tubing. Tubing should go from discharge connection on the eductor system to the injection check valve or direct to the tower or makeup tank as needed.
8. Connect provided AC adapter from solenoid coil (polarity does not matter) to controller source (timer or controller). Make sure that wires do not rest on solenoid coils.
9. Replace cabinet cover.
10. Turn on inlet water supply. Manually activate each of the eductors using the control source. As each of the eductors is activated, it will draw chemical through the supply tube and into the discharge tube. An optional calibration column can be used to accurately measure chemical delivery rates. Eductor must have some back pressure to develop vacuum, even a short length of discharge tubing should be sufficient.

HYDRODOSE INSTALLATION DIAGRAM FIG. 1

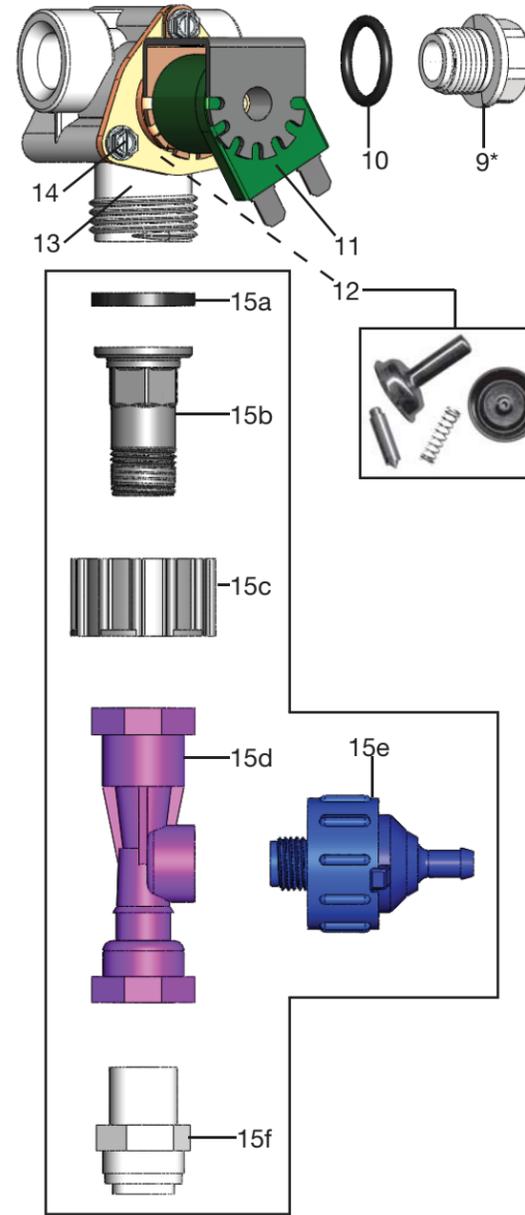


PARTS DIAGRAM:



KEY	PART NO.	DESCRIPTION
1	10094661	Cover, cabinet
	(*10094672)	Cover, cabinet, 3 product)
2	637900	Nipple, 3/8"
3	604300	Elbow
4	360900	Nipple, 3/8" x 1/4"
5	90085155	Regulator with guage
6	90087019	Strainer Y, 3/8"
7	90084579	Fitting, 3/8"MPTx1/2"Guest
8	10094662	Back, cabinet
	(*10094673)	Back, cabinet, 3 product)

EDUCTOR PARTS DIAGRAM:



KEY	PART NO.	DESCRIPTION
9	10075926	Pipe plug
	(*10075911)	Nipple, 3 product units only)
10	10075950	O-ring
11	3266-3	Coil, 24V
12	10039409	Valve rebuild kit
a		Armature Guide
b		Armature, Round
c		Armature Spring
d		Diaphragm, EPDM
13	470001	Valve Body
14	641751	Screw for valve body
15	10094664	Eductor kit
a		Hose washer, 1/8"
b		Swivel stem
c		Swivel collar
d		Eductor
e		Check valve, viton
f		Fitting, 3/8"MPT x 1/2" guest
16	500870	Tubing, 1/4" x 7'
	(*500821)	Tubing, 1/4" x 21', 3 product)
17	509900	Weight
18	10089410	Footvalve, asy, 1/4" barb, viton

