

LavoDose Series










INSTRUCTION MANUAL

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Safety

READ CAREFULLY BEFORE INSTALLING:

-  Read this manual carefully for installation instructions.
-  DO NOT INSTALL the dispenser where it is directly exposed to vapors, chemical fumes, or next to heat sources.
-  PROTECT YOURSELF - Always wear personal protective equipment. Use gloves, eye ware, and appropriate attire when working with chemicals.
-  FOLLOW THE SAFETY AND HANDLING INSTRUCTION of the chemical manufacturer.
-  NEVER point the discharge hose at yourself.
-  Always check local plumbing codes to ensure compliance.
-  THE DISPENSER SHOULD BE INSTALLED approximately 5' above the chemical container.

Technical Specifications

Water Inlet	Left or Right
Type of Connection	3/4" Female GHT
Actuators	Button, Dial, Slide
Product Dimensions	9" H x 4" W x 5" D
Operating Pressure	20PSI to 100PSI
Temperature	Max 160 degrees F

Dilution Chart Note: Dilutions will vary. Tested with water.

Tips tested at 40PSI with water products

Flex Gap

Standard Metering Tip	Tip Color	1 GPM		3.5 GPM	
		Oz/Gal	Ratio	Oz/Gal	Ratio
		No Tip	50	2:1	22
Grey	49	3:1	21	6:1	
Black	44	3:1	20	6:1	
Beige	32	4:1	14	9:1	
Red	20	6:1	9	13:1	
White	13	9:1	6	20:1	
Blue	12	11:1	5	23:1	
Tan	9	14:1	4	32:1	
Green	6	20:1	2	53:1	
Orange	5	24:1	1.8	69:1	
Brown	3.4	36:1	1.5	80:1	
Yellow	3.3	37:1	1.3	96:1	
Aqua	2.6	46:1	1	121:1	
Purple	1.3	91:1	0.6	217:1	
Pink	0.7	182:1	0.3	400:1	
Clear	No hole				

Tips tested at 40PSI with water products

Air Gap

Standard Metering Tip	Tip Color	1 GPM		4 GPM	
		Oz/Gal	Ratio	Oz/Gal	Ratio
		No Tip	38	3:1	16
Grey	39	3:1	16	8:1	
Black	38	3:1	13	10:1	
Beige	31	4:1	12	10:1	
Red	22	6:1	9	13:1	
White	15	8:1	6	20:1	
Blue	13	10:1	6	22:1	
Tan	9	14:1	5	27:1	
Green	7	18:1	3	39:1	
Orange	5	24:1	2	53:1	
Brown	4	28:1	2	55:1	
Yellow	4	32:1	1.8	68:1	
Aqua	3	44:1	1.5	83:1	
Purple	2	77:1	1.1	115:1	
Pink	1	154:1	0.7	182:1	
Clear	No hole				

Ultralean Tip	Lime	0.5	233:1	0.3	476:1
	Burgundy	0.4	333:1	0.2	625:1
	Pumpkin	0.3	435:1	0.15	833:1
	Copper	0.2	625:1	0.1	1250:1

Ultralean Tip	Lime	0.5	238:1	0.2	588:1
	Burgundy	0.4	303:1	0.2	769:1
	Pumpkin	0.3	357:1	0.1	1000:1
	Copper	0.29	417:1	0.09	1429:1

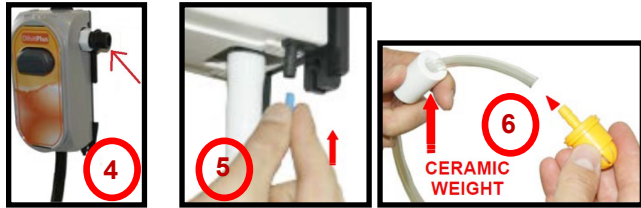
Mounting the units



STEP 1: Use the backplate as a template to mark the mounting hole pattern. Drill a hole for the supplied $\frac{1}{4}$ " anchors and mount the bracket with the screws provided in the accessory kit.

STEP 2: Attach the system to the backplate and slide it down. The tab will make a clicking noise when the dispenser is secured.

STEP 3: Slide in the discharge hose (6.5ft or "S" tube) over the barbed fitting and make sure it is secured.

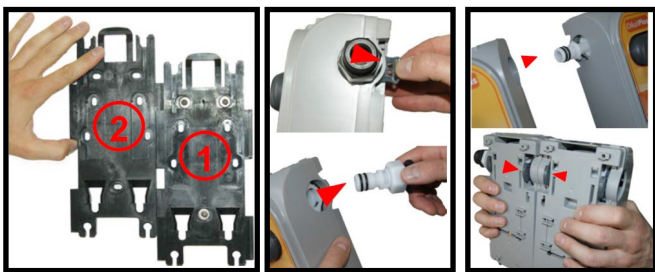


STEP 4: Connect the water inlet supply.

STEP 5: Select the metering tip for your desired dilution and connect the supply tubing.

STEP 6: Connect the ceramic weight on the opposite end of the tube with the foot valve.

Multiple Unit Installation:



After mounting the backplate, follow these instructions:

STEP 1: Slide the second bracket into the slot from top to bottom on the left side of bracket 1 until they are properly aligned and secure.

STEP 2: Unlock the left side of the first system by pulling the rear clip to its outward most position as shown and remove the end cap.

STEP 3: Unlock the right side of the second system by pulling the clip to its outward most position and remove the water connection.

STEP 4: Insert the coupling nipple into the first unit as illustrated

STEP 5: Connect the second unit to the first

STEP 6: Apply the combined system on to the bracket and complete the installation as per step number 3 above.

Troubleshooting

Problem	Cause	Solution
System does not dispense solution	<ol style="list-style-type: none"> 1. Water inlet strainer is clogged 2. Too much water pressure 3. Insufficient water pressure 4. The venturi is clogged 5. Activation valve is clogged by mineral 	<ol style="list-style-type: none"> 1. Clean it or replace if necessary 2. Use a water pressure regulator in case of more than 100PSI 3. 20PSI is the minimum required pressure. 4. Soak venturi in hot water and inspect visually, gently removing debris. Replace assembly if needed. 5. Soak the valve assembly in a solution of hot water and limescale remover. Replace assembly if needed.
Water flow won't stop	<ol style="list-style-type: none"> 1. Activation valve is clogged by minerals or other water borne debris 	<ol style="list-style-type: none"> 1. Soak the valve parts and valve seat in limescale remover to clean. Replace them if necessary
Activation valve is leaking	<ol style="list-style-type: none"> 1. Valve cap not tight enough to seat 2. Not properly positioned 	<ol style="list-style-type: none"> 1. Firmly hand tighten the valve cap until leak stops. 2. Reposition the valve or change it if necessary
Connections and end cap are leaking	<ol style="list-style-type: none"> 1. Missing o-ring in the connection fitting and / or end cap 2. O-ring in the connections or end cap are damaged 	<ol style="list-style-type: none"> 1. Apply the o-ring or replace the entire part 2. Replace the o-rings or replace the entire end cap
Flex gap is leaking	<ol style="list-style-type: none"> 1. Flexible membrane is damaged 	<ol style="list-style-type: none"> 1. Replace the Flex Gap
A-gap is spraying out and or leaking	<ol style="list-style-type: none"> 1. Limescale film or dirt on the A-gap's upper nozzle 2. Venturi coated with limescale or dirt 3. There is a buildup or clog in the discharge hose 4. Discharge hose is above the dispenser 	<ol style="list-style-type: none"> 1. Soak in hot water and limescale remover to remove buildup. Replace if necessary 2. Soak in hot water and limescale remover to clean. Replace it if necessary 3. Clean the hose to eliminate restriction 4. Make sure the discharge hose dispenses below the dispenser insuring no back pressure
Improper concentration of chemical or no suction	<ol style="list-style-type: none"> 1. Insufficient water pressure 2. Metering tip clogged 3. Foot valve clogged 4. Venturi clogged 5. Air leak in chemical pick up tubing line 6. Product is too thick 7. Product container is too far from the system 8. Excess concentration 	<ol style="list-style-type: none"> 1. 14PSI is the minimum working pressure. 2. Replace tip 3. Soak in hot water, hand clean or change it 4. Soak in hot water or limescale remover to clean. Replace it if necessary 5. Check the entire line. Replace the tubing check the connections and cable tie 6. Change the pick up hose. Switch to a bigger diameter. (need 1/4 x 5/16 coupler) 7. The standard installation is positioning the tank under the system, 5ft max 8. Tip is not the correct one or not inserted fully.
System continues to draw chemical after the valve is closed	<ol style="list-style-type: none"> 1. Chemical tank is positioned higher than the dispenser causing siphoning 	<ol style="list-style-type: none"> 1. Move chemical container below the dispenser discharge point

Terms & Conditions

Company warrants its Goods to be free from material defects in material and workmanship for a period of one year except: i. when Goods have been modified following delivery and/or subject to improper handling, storage, installation, operation, or maintenance unless those modifications have been authorized in writing by Seller. ii. when an item is purchased by Company as a component part of the Goods, except to the extent to which such item or items are covered by the warranty, if any, of the original manufacturer. iii. when an item which is a component part of the product has been furnished by Buyer. iv. no warranty of a component part shall extend beyond the warranty period of the device in which such component part is incorporated. b. There is no implied warranty of merchantability or of fitness for particular purpose and there are no warranties of any nature except as set forth in paragraph 3 herein. Any claim by Buyer made pursuant to Company's warranty must be made in writing. Company shall have the right to inspect the Goods claimed to be defective and shall have the right to determine the cause of such alleged defect. All Goods replaced or repaired by Company under its warranty shall be replaced or repaired F.O.B. Company's facility. Buyer must notify Company, in writing, within fifteen (15) days from receipt of Goods of any obvious defect in the product, or shortages, or Company shall have no obligation to correct such defect. Company shall have the option of re-inspection at Buyer's plant or its own before allowing or disallowing Buyer's claim. Defects that do not impair service shall not be a cause for rejection or recovery under any warranty. Buyer assumes full responsibility for the use and application of the product. Buyer accepts Company's design and material selection and specifications in placing this order unless other specifications are agreed to in writing by both parties prior to the manufacture of Goods by Company. Statements and data relating to Products on Seller's literature and website are not intended to define the performance of the product in actual usage or in combination with other equipment or processes. These statements should not be used by Customer solely as an indication of performance or suitability for specific applications or uses.

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Components and spare parts such as O-rings, squeeze tubes, roller blocks and other plastic components are considered to be wear parts and are not warranted. Seller shall have no warranty or liability for product that was damaged during shipment, product that is not being used in its recommended use, product that is not operated in accordance with the operating manual and procedures, product that was not properly installed, product used in a manner that is inconsistent with its designed purpose, product that is subject to a power surge or similar event, products that fail due to usage of a non Lavo Solutions replacement or spare part or product that was not maintained in accordance with recommended maintenance programs.

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