ELECTRIC MIXING STATION



Model # EQUIP-LE980136 · 105HCDU Electric Mixing Station

120V
3/4" x 5' (Open Flow)



OVERVIEW

The 105HCDU Electric Mixing Station blends three (3) liquid products (chemicals and/or water) into a single solution and dispenses into any container. This unique proportioning system uses an electric pump to draw the first product from a user-supplied container and provide the fluid pressure for a venturi injector that draws in the remaining products. Metering tips control the rate at which the second and third products are drawn into the first, and the resulting solution mixes thoroughly prior to being discharged through the open flow hose. Shipping size 22x18x9 in., Weight 26lbs.



We use the world's most effective and safe anti-microbial disinfectant and chemical decontaminant



A proud supporter of the Firefighter Cancer Support Network 631-563-2744 eds-ny.com



SAFETY & OPERATIONAL PRECAUTIONS

- For proper performance do NOT modify, substitute nozzle, hose diameter or length.
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear protective clothing, gloves and eye wear when working with chemicals.
- Always direct the discharge away from people and electrical devices.
- Follow the chemical manufacturer's safe handling instructions.
- \bullet NEVER mix chemicals without $\underline{\text{first}}$ consulting chemical manufacturer.
- Operate the electric pump according to the limitations specified on the data label.
- Do not use with flammable or hazardous fluids not compatible with Santoprene.
- Always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an Electrician. Electrical wiring should only be done by a qualified Electrician per Local and State Electrical Codes.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

- 1. Mount the unit above chemical containers to prevent siphoning.
- Securely attach the 10' x 1/2" clear suction tube to the pump and place the strainer in a container of Chemical #1. NOTE: Chemical #1 should be the product that is required in the highest concentration in the final solution this is the chemical into which the other two are blended.
- 3. Install a metering plug into the shorter 6' x 1/2" clear suction tube and use hose clamps to secure the plug and tube as shown in diagram. Place the strainer into Chemical #2. *NOTE: Chemical #2 should be the product that is required in the second highest concentration in the final solution.*
- 4. Thread a metering tip into the small check valve (use care not to overtighten) and slide the 1/4" suction tube over the metering tip and check valve barb. Place the strainer in Chemical #3. NOTE: Chemical #3 should be the product that is required in the lowest concentration in the final solution.
- 5. DO NOT CONNECT TO ELECTRICITY YET.

See chemical labels for dilution ratio recommendation or consult your chemical supplier.

- · Chemical usage rates are based on water thin chemicals with a viscosity of 1CPS.
- Application results will ultimately determine final tip color.
- Validate output before application.

The usage rate of Chemical #2 is regulated using a metering plug.

- Use no metering plug to draw the maximum possible amount of Chemical #2 into Chemical #1
- Plugs with drilled orifices are supplied to mix weaker ratios (1:1, 1:2 and 1:3) and use less Chemical #2
- A blank plug is also included, which can be drilled to the required size

The usage rate of Chemical #3 is regulated using a metering tip.

· Color-coded metering tips are included, refer to tip chart

BOTH chemical suction tubes must be placed in chemical. If one suction tube will not be used, plug the unused tube to prevent it from drawing in air.

METERING TIP/PLUG REQUIRED FOR THE CHEMICAL DECON7

- Metering Plug = 1:1 (the pre-drilled plug with the largest hole)
- Metering Tip = Yellow Green (11.5 oz/min)

TO OPERATE

- 1. Ensure that the switch is in the off position and plug the power cord into a 120 VAC power outlet. GFI recommended.
- 2. Hold the discharge tube inside the container to be filled, do not release it.
- 3. Flip the switch to the on position to begin filling.
- 4. When container is filled to the desired level, flip the switch to the off position and keep the discharge tube in the container until it completely drains before removing it. Do NOT kink the discharge hose.
- 5. Make final tip metering tip / plug adjustments based on results.



We use the world's most effective and safe anti-microbial disinfectant and chemical decontaminant



A proud supporter of the Firefighter Cancer Support Network 631-563-2744 eds-ny.com

METERING TIP SELECTION

METERING TIP COLOR	FL-OZ PER MIN		
Brown	0.56		
Clear	0.88		
Bright Purple	1.38		
White	2.15		
Pink	2.93		
Corn Yellow	3.84		
Dark Green	4.88		
Orange	5.77		
Gray	6.01		
Light Green	7.01		
Med. Green	8.06		
Clear Pink	9.43		
Yellow Green	11.50		
Burgundy	11.93		
Pale Pink	13.87		
Light Blue	15.14		
Dark Purple	17.88		
Navy Blue	25.36		
Clear Aqua	28.60		
Black	50.00		
The fl-oz/min shown are approximat	e values. Due to		

chemical viscosity, actual fl-oz/min may vary.







We use the world's most effective and safe anti-microbial disinfectant and chemical decontaminant



A proud supporter of the Firefighter Cancer Support Network 631-563-2744 eds-ny.com



rohlem		Possik	le Cause / Solution
		Startup	Maintenance
Unit will not draw chemical Chemical mixture not right / does not get intended results Unit doesn't come on		1,2,5 3,4 1	7, 9 6, 7, 8 9
Possible Cau	se / Solution		
Startup	Maintenance		
 Electricity not getting to unit Ensure unit is plugged in securely (GFI recommended) Turn Switch to the "On" position. Problem with suction tube to Chemical #1 or Chemical #1 is depleted Immerse pump's suction tube strainer completely in primary chemical #1. Check that suction tube is securely attached to pump with no gaps between tube and barb. Check that suction tube does not have a split, cut or pin hole and is not stretched out near the end. As needed, cut off end of tube or replace tube. Refill Chemical #1. Problem with suction tube to Chemical #2 and/or Chemical #3 Immerse tube(s) strainer(s) completely in intended chemical concentrate Check that suction tubes are securely attached. Check that suction tubes are in good condition (see details in item 2, above). As needed, cut off end of tube(s) or replace. Incorrect metering plug (chemical 2) and/or metering tip (chemical 3) is installed. (For chemical designations, see drawing on page 2.) Refer to Metering Tip Selection chart and metering plug details on page 2. Select larger or smaller metering tip/plug to draw in more or less of the respective chemical until the desired chemical mixture / results are achieved. Discharge hose kinked Straighten the hose. 	 6. Chemical cf Clear 7. Chemical st Clear 8. Hard water st the injector Follor using draw inject 9. May have pt Refer Fuse Cons 	neck valve stuck o n or replace. Trainer or metering n or replace chemical body causing poo w Preventive Maint g hot water and/or d at all, carefully rem tor body in de-scalin ump or electrical p may have blown sult with a qualified	r failed tip partially blocked al strainer and/or metering tip. build-up may have formed in or or no chemical pick-up enance instructions below, e-scaling acid. When there is no rove fittings and soak entire ing acid. broblems electrician





A proud supporter of the Firefighter Cancer Support Network 631-563-2744 eds-ny.com