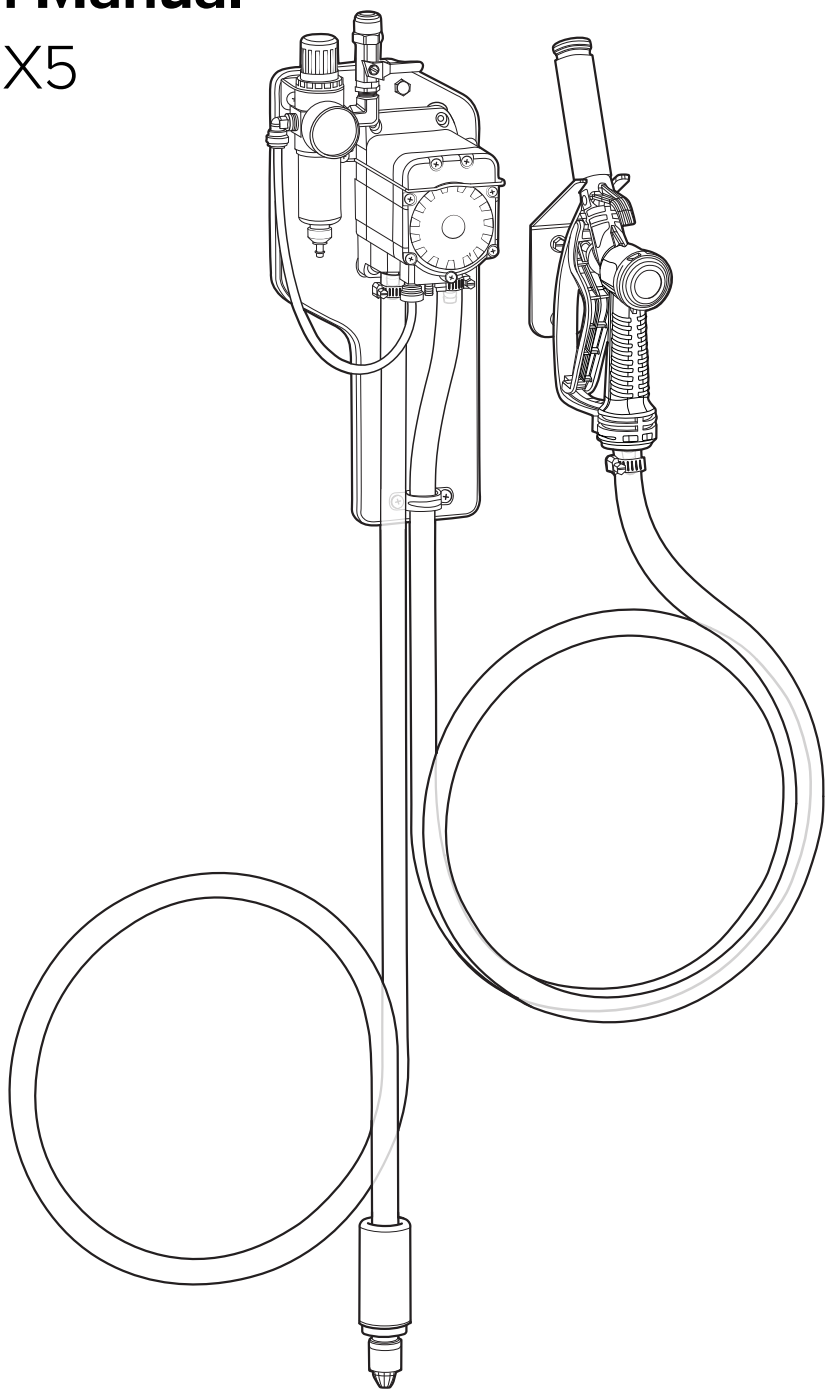
Chemical Transfer Unit

Operation Manual

CTX1 - CTX5



READ ALL INSTRUCTIONS BEFORE USING OR SERVICING THIS UNIT. KEEP THIS MANUAL IN A LOCATION THAT IS READILY AVAILABLE TO USERS AND SERVICE TECHNICIANS.

English (Original Instructions)

Scan this code for operation manual

Safety

⚠ WARNING

PEOPLE OR OBJECTS CAN BE HURT OR DAMAGED IF THIS UNIT IS NOT USED CORRECTLY!

Failure to read all the instructions before operating the unit may result in personal injury or death from the improper use or the chemical solution. Anyone handling, operating or using the unit must read and understand the instructions in the manual. The buyer assumes all responsibility for safety and proper use in accordance with the instructions.

Using or servicing the unit without appropriate personal protective equipment (PPE) may result in serious injury such as burns, rashes, eye, throat or lung damage and death. Always wear PPE as indicated in the Safety Data Sheet (SDS) when using or servicing the unit. Protect eyes, skin, and lungs against drifting spray.

Chemical solutions may pose a health risk and death if they contact the skin or eyes, are inhaled or swallowed. Always read and follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and the SDS associated with the chemical solution before using the unit.

Pressure within the equipment may cause an unexpected release of the chemical solution and cause serious injury such as burns, rashes, eye damage, throat or lung damage and death. Always depressurize and clean the unit after each use. Never leave the unit unattended while pressurized.

Using the unit with fluid temperatures above 100°F (37.8°C) may result in scalding, burns, serious injury or death. DO NOT use a solution with a temperature above 100°F (37.8°C).

Operating the unit when damaged or leaking may result in exposure to chemical solutions, serious injury or death. Never use the unit if it is damaged or leaking.

Never point the discharge wand at yourself, another person, or any object you do not want covered in chemical.

Using incoming air pressure exceeding 100 psi (6.9 bar) may result in pressure buildup, explosion, serious injury or death. DO NOT exceed 100 psi (6.9 bar) incoming air pressure when operating the unit.

Use of hydrocarbons and flammable products may result in explosions, fire and serious injury or death. Never use hydrocarbons or flammable products with the unit.

Mixing an alkaline with an acid may result in a chemical reaction. Overheating of the mixture may cause it to splatter caustic compounds or release hazardous fumes, gas and vapors. Always flush the unit with fresh water thoroughly when switching from an alkaline to an acid or an acid to an alkaline.

NOTICE

Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

Use of an air lubricator before the unit may result in diminished performance and damage to the unit. Do not use an air lubricator before the unit.

Moisture in the air lines will damage the pump and diminish the pump life. The air must be filtered, clean, dry and free of moisture. If needed, install an air dryer before the unit.

PROTECT THE ENVIRONMENT

Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations

Product Overview

Options

	Number of Pumps	Pump Seal Material
CTX	One **(1)**	Santoprene **(S)**
	Two **(2)**	Viton **(V)**
	Three **(3)**	Kalrez **(K)**
	Four **(4)**	
	Five **(5)**	

Add the bolded option codes to item number as shown. For Santoprene only units, no option code is needed.

Examples:

- CTX1K - One pump with Kalrez pump seals
- CTX2VK - One pump with Viton pump seals, and one pump with Kalrez pump seals
- CTX3V - All three pumps with Viton pump seals
- CTX4SSKK - Two pumps with Santorpene pump seals, two pumps with Kalrez pump seals
- CTX5 - All five pumps with Santoprene pump seals

Requirements

Compressed air requirements	20-80 psi (1.4-5.5 bar) with 2 CFM (56.6 l/min)
Liquid temperature range	40-100˚F (4.4-37.8˚C)
Chemical compatibility	Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials and pump seals. For more information on chemical compatibility, consult the manufacturer or SDS for your product or contact our customer service department.

Specifications

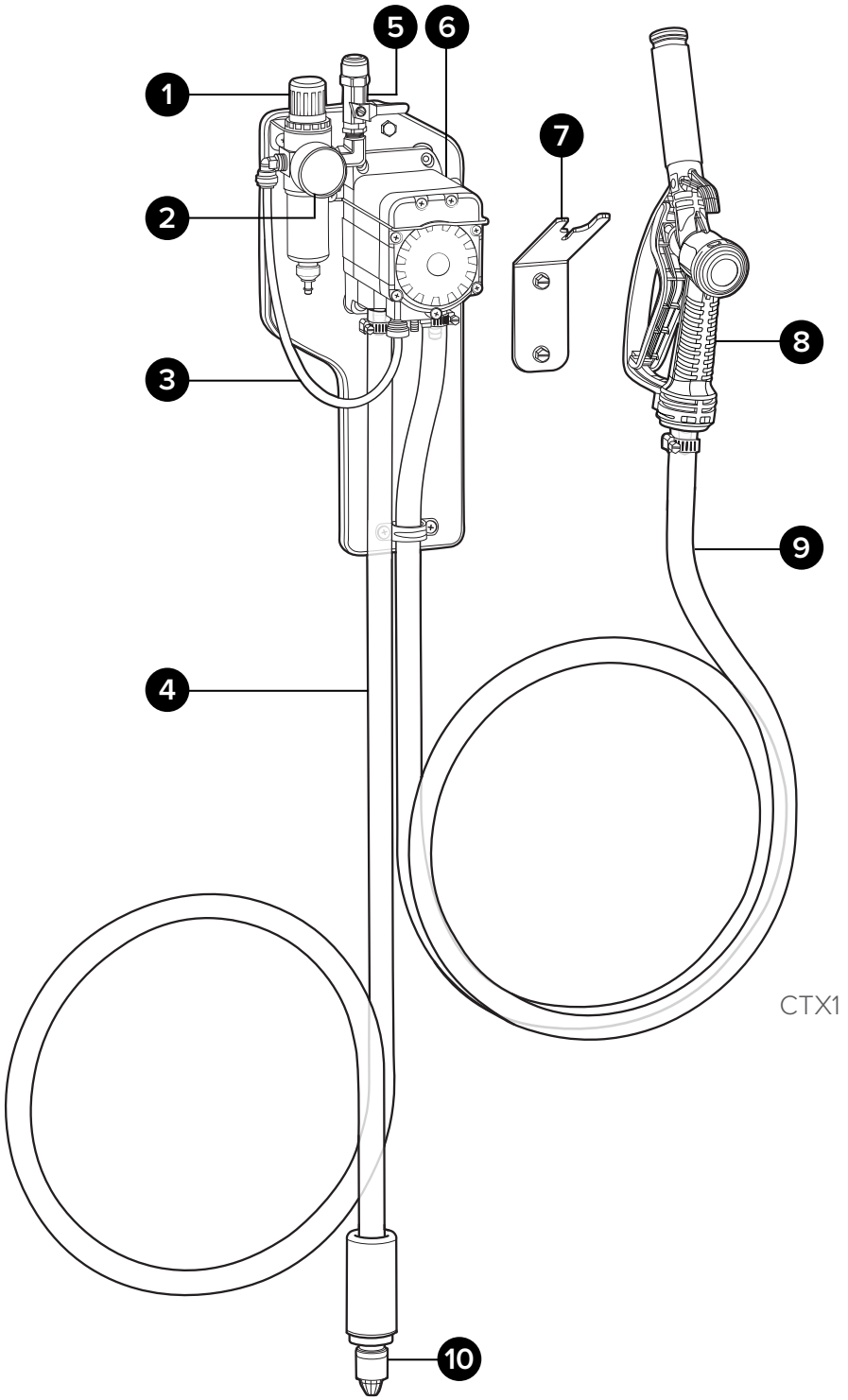
Power type	Compressed air
Number of products unit can draw from	One product per pump
Suction line length/diameter	8 ft. (2.4 m) hose with ½ in. (12.7 mm) inside diameter
Discharge hose length/diameter	8 ft. (2.4 m) hose, with ½ in. (12.7 mm) inside diameter
Discharge wand/tip type	Polypropylene fill gun with ½ in. hose barb and Hastelloy spring
Flow rate*	3.5 gal/min (13.2 l/min) per pump
Pump seals	Santoprene, Viton, or Kalrez

*Flow rates given are based on chemical with viscosity of water and factory air pressure settings.

Product Components

Get to know the CTX1 components that you will need to use, adjust or assemble.

Chemical Transfer Unit • One pump



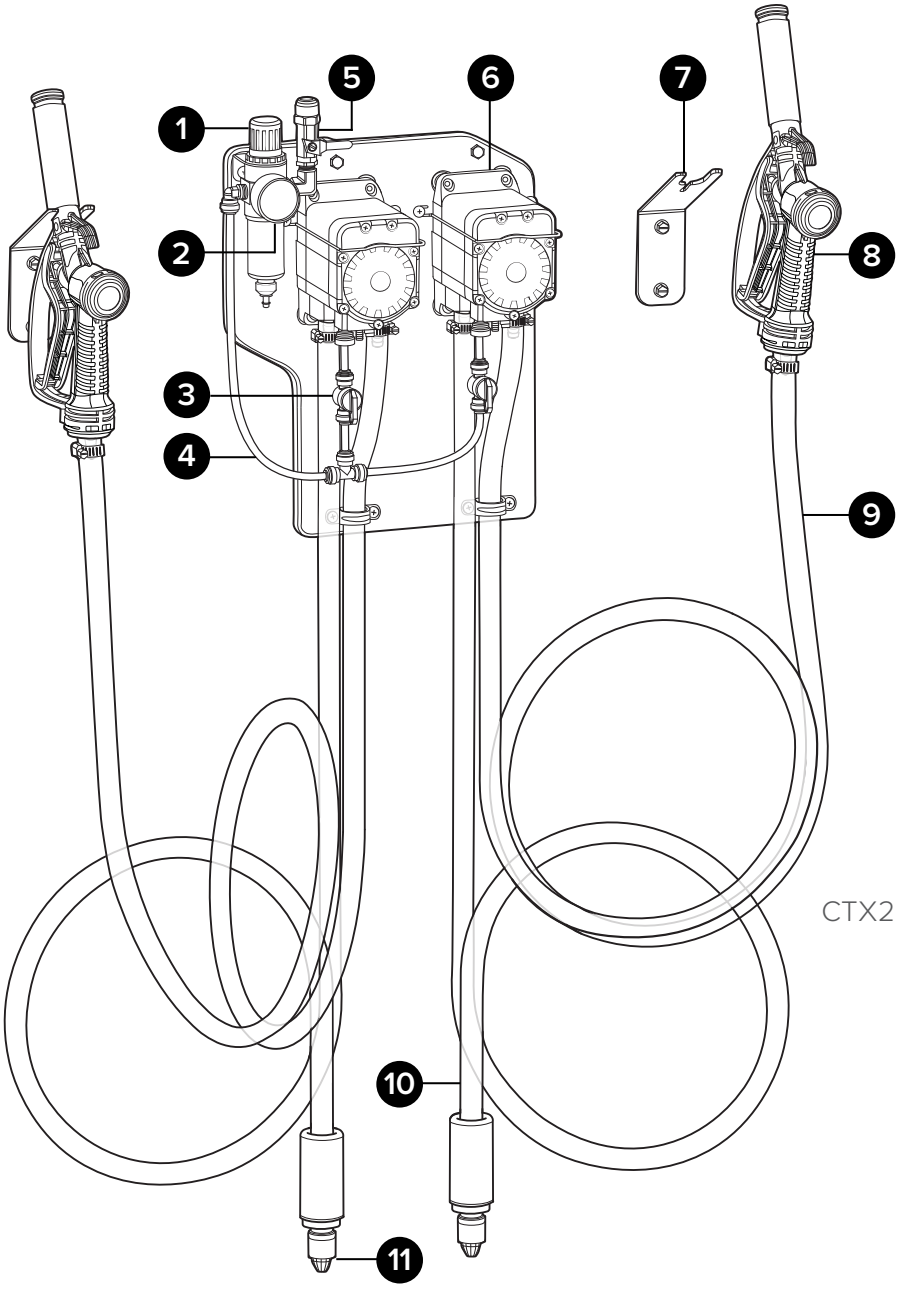
CTX1

1. Air regulator
2. Air pressure gauge
3. Air line
4. Suction Hose
5. Air inlet valve
6. Quick-change pump
7. Wand bracket
8. Poly fill gun
9. Discharge hose
10. Suction valve

Product Components

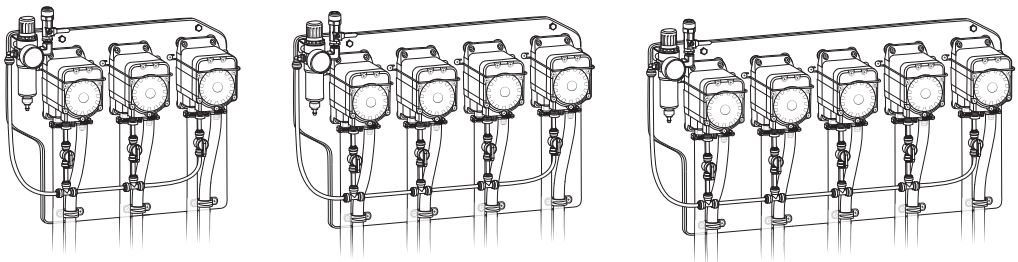
Get to know the CTX2 - CTX5 components that you will need to use, adjust or assemble.

Chemical Transfer Unit • Two - Five pump



CTX2

1. Air regulator
2. Air pressure gauge
3. Quick-fit shut off valve
4. Air line
5. Air inlet valve
6. Quick-change pump
7. Wand bracket
8. Poly fill gun
9. Discharge hose
10. Suction hose
11. Suction valve



CTX3 CTX4 CTX5

Using your unit

Installation Instructions

1. Remove components from packaging.
2. Select desired area to mount the unit.
3. Mount the unit to the wall using the longer screws and plastic anchors provided in the parts package.

Note: To drill holes for the plastic anchors, use a 5⁄16 inch drill bit.

4. If desired, mount the wand bracket using the screws and plastic anchors provided in the parts package.

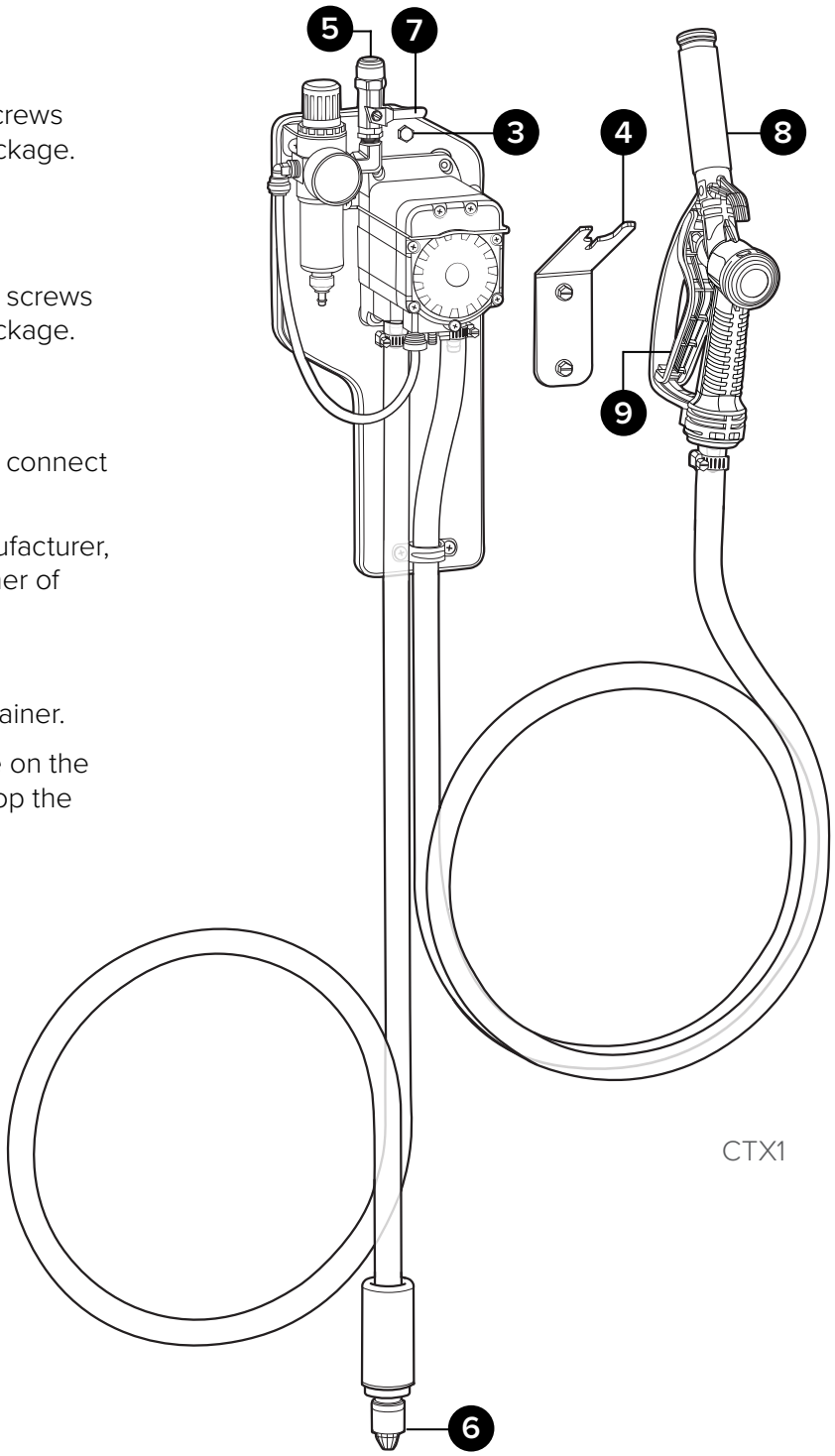
Operating Instructions

5. With the air inlet valve in the closed position, connect 3⁄8 inch tubing air line to the air inlet quick-fit.
6. Following all instructions from chemical manufacturer, place the chemical suction line into a container of chemical solution.
7. Open the air inlet valve to allow air flow.
8. Place discharge wand into an approved container.
9. Activate the unit by squeezing trigger handle on the poly fill gun. Release the trigger handle to stop the flow of product.
10. Close the air inlet valve to stop air flow.

After Use Instructions

Note: To ensure safety, always depressurize the unit when not in use and prior to disassembly or maintenance.

11. Shut off the air supply to the unit by closing the air inlet valve, and removing air line.
12. Squeeze trigger handle on the poly fill gun to relieve any pressure remaining in the unit.
13. Release trigger handle after all pressure has been relieved from the unit.



CTX1

Using your unit

Installation Instructions

1. Remove components from packaging.
2. Select desired area to mount the unit.
3. Mount the unit to the wall using the longer screws and plastic anchors provided in the parts package.

Note: To drill holes for the plastic anchors, use a 5⁄16 inch drill bit.

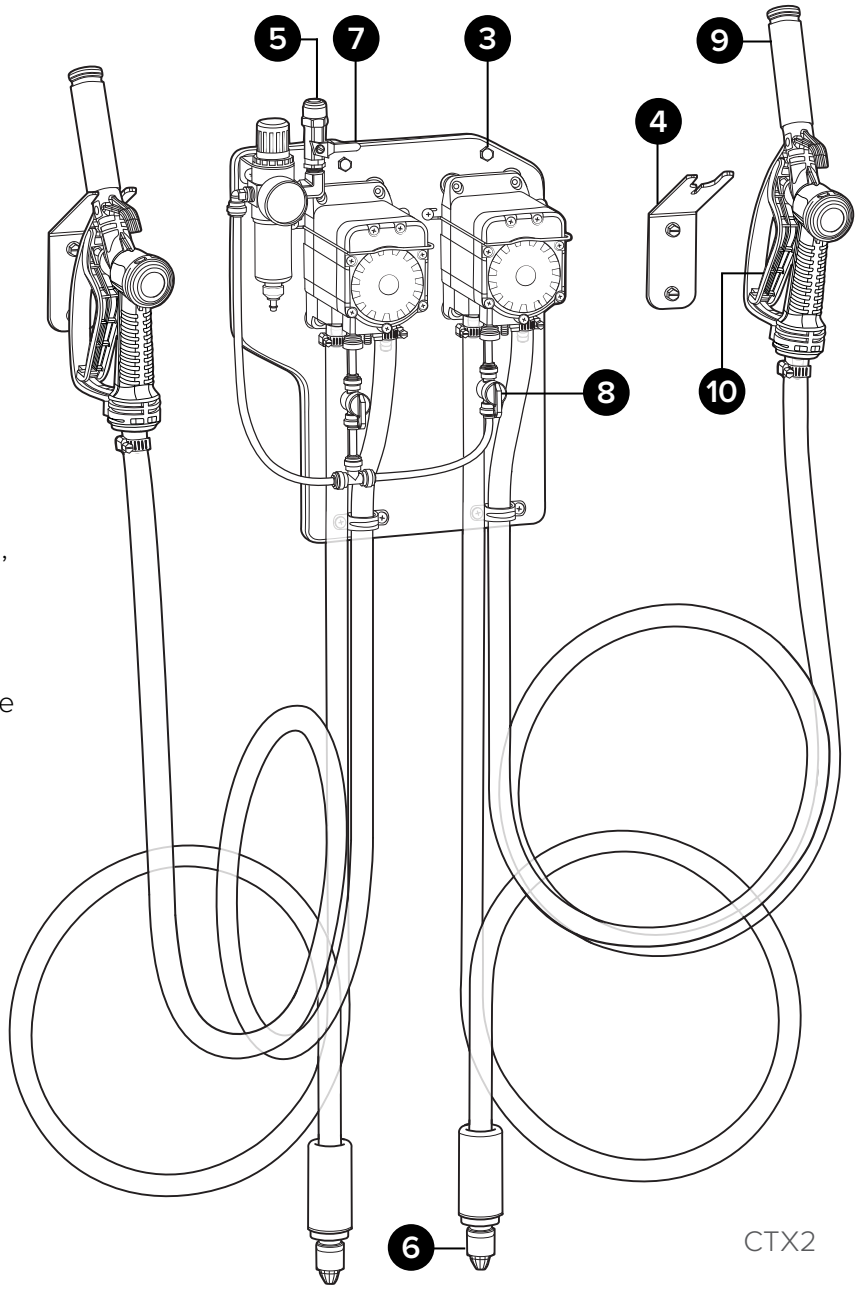
4. If desired, mount the wand brackets using the screws and plastic anchors provided in the parts package.

Operating Instructions

5. With the air inlet valve in the closed position, connect 3⁄8 inch tubing air line to the air inlet quick-fit.
6. Following all instructions from chemical manufacturer, place the chemical suction line into a container of chemical solution.
7. Open the air inlet valve to allow air flow.
8. For units with 2 or more pumps, verify the quick-fit shut off valves are open.
9. Place the discharge wand into an approved container.
10. Activate the unit by squeezing trigger handle on the poly fill gun. Release the trigger handle to stop the flow of product.

Note: For safe and effective operation, it is recommended to only activate one pump at a time.

11. Close the air inlet valve to stop air flow.



CTX2

After Use Instructions

Note: To ensure safety, always depressurize the unit when not in use and prior to disassembly or maintenance.

12. Shut off the air supply to the unit by closing the air inlet valve and removing air line.
13. Squeeze trigger handle on the poly fill guns to relieve any pressure remaining in the unit.
14. Release trigger handle after all pressure has been relieved from the unit.

Maintenance

⚠ WARNING

Performing any maintenance with the unit pressurized, and connected to the air supply may result in serious injury or death. Always ensure that the unit has been depressurized, and disconnected from the air supply before conducting any maintenance. Servicing or modifying this unit with parts not listed in this manual may cause the unit to operate improperly. Do not use unauthorized parts when servicing the unit.

Maintaining Your Unit

To keep your unit operating properly, periodically perform the following maintenance procedures:

- Inspect the pump for wear and leaks.
- Inspect all hoses for leaks or excessive wear. Make sure all hose clamps are in good condition and properly secured.
- Replace the filter located within the air regulator as needed. Clean by unthreading the air regulator bowl from the air regulator.
- Check the suction line and strainer for debris. Clean as needed.
- Drain your air compressor tank on a regular basis to help extend pump life. An air source with a high moisture content will accelerate pump wear.

Note: If your air source has a high moisture content, install a water separator.

Servicing Your Unit

To service your unit, refer to the service manual which includes:

- Troubleshooting procedures.
- Detailed parts breakdowns and illustrations.
- Part numbers of serviceable components and assemblies.

Scan this code for service manual