

CHEM-BLADE[®] CLM

SAFETY INSTRUCTIONS



⚠ DUE TO RISK OF SEVERE PERSONAL INJURY, DO NOT INSTALL THIS EQUIPMENT UNTIL YOU HAVE COMPLETELY READ AND FULLY UNDERSTAND HOW TO FOLLOW ALL OF THESE WARNINGS AND INSTRUCTIONS.

⚠ **DO NOT REMOVE PROTECTIVE PACKAGING FROM BLADES UNTIL AFTER INSTALLATION IS COMPLETE.** SHARP POINT AND BLADES POSE A RISK OF PUNCTURE AND LACERATION. USE GLOVES AND EXTREME CAUTION WHEN POSITIONING HANDS AND ARMS TO AVOID COMING IN CONTACT WITH THE CHEM-BLADE. MAKE SURE FOOTING IS STABLE AND BALANCED WHEN INSTALLING.

Included Parts List

- Assembled Chem-Blade CLM
- Warning Label for Tank
- Operation Instructions
- New Lid Installation Screws

Tools Needed

- Screwdriver/nutdriver
- C-Clamps 4+
- Miscellaneous wrenches
- Drill with hole saw

For Technical Assistance Please Call:

Eck Fabrication LLC

620-491-0461

525 NW 20th Ave

Kingman, KS 67068

Recommended Plumbing Supplies: (1) 3/4" FPT Barb Elbow, (1) 3/4" MPT Barb Elbow, (2) 3/4" MPT Barb Straight, (1) 3/4" Street Elbow, (1) 3/4" Short Nipple, (1) 3/4" Full Port Valve, (1) 220 or 300 Cap with 3/4" FPT, 3/4" Tank Bung, Length of 3/4" Hose, 3/4" Hose Clamps

Installation Instructions

1. Place Warning Label on clearly viewable portion of container/tank.
2. Remove screws/fasteners from lid assembly of container, remove lid assembly.
3. Install a 3/4" FPT to 3/4" 90 Degree Barb onto the Chem-Blade SS nipple.
4. Set the Chem-Blade inside of the lid opening where the legs catch on the brim of lid platform (Fig. 1). The Chem-Blade **CLM WILL ONLY INSTALL IN ONE ORIENTATION**, where the thinner legs split the Hypro ProClean Nozzle Pedestal. There should be an even gap of approximately 1/2" on both sides of pedestal to the nearest portion of Chem-Blade.
6. Set lid collar back into opening to support the Chem-Blade positioning for the next steps. Collar must "pop" inside of Chem-Blade legs and seat to tank brim tightly. **DO NOT** install lid screws at this time.
7. Begin Plumbing: The rinse supply must enter on the roof of the tank as to **NOT DISRUPT** the Hypro CycloRinse. We recommend installing the bung/control valve in the top of the tank where easily accessible by the operator but not in the path which plastic jugs will travel to and from the Chem-Blade CLM.
8. For ease of installation we recommend before installing the tank bung to construct the bung assembly. A 3/4" Straight Barb fitting for the inside of the tank. For the outside, the bung threaded to a 3/4" Street Elbow to a 3/4" Short Nipple onto 3/4" Full Port Valve and then a 3/4" Straight Barb fitting. (Figure 2. Illustrates this configuration). Please install the completed bung at this time.
9. Configure according to your educator sizing a 220 or 300 cap with 3/4" FPT port to a 3/4" Barb 90 Degree elbow, then install this fitting onto the capped off end of your factory Hypro Educator setup before the Venturi pointing in the direction of the control valve (Fig. 4).
10. Now cut to length and clamp 3/4" hose lengths between the eductor cap supply to Chem-Blade control valve and from tank bung to Chem-Blade. Removal of Chem-Blade to install hose may be needed, please keep internal hose length short enough so that it does not touch the tank walls and thus conflict with Cleanload Max's wall rinse.
12. It is recommended to apply sealant between lid collar and tank but not required. Set the lid collar back into the tank and rotationally clock it so all factory fastener holes can be used and so that lid hinges backwards into a clear and supported area.
13. **Use 4 or more C-Clamps** to squeeze the lid collar and Chem-Blade to the tank at each hole to ensure proper screw application (Fig. 5 and 6). New special screws are provided for use with the Chem-Blade. Clamp very close to multiple holes simultaneously as to hold the lid evenly and firmly to the tank when installing.

Recommended operating pressure for rinsing system 10–50 PSI (0.7–3.5 bar).

Please if you have any issues with installation or operation give us a call at 620-491-0461. Thanks

---If Rinse Head does NOT rotate and rinse the containers/tank properly it is suggested to run a small in-line 80 Mesh strainer on the rinse head supply line. The rinse head utilizes tight tolerances for performance, dirty or contaminated rinse supply will cause clogging.----

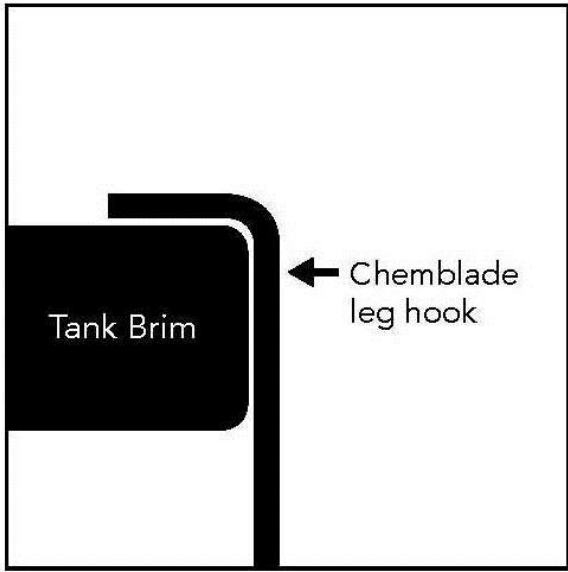


Fig. 1

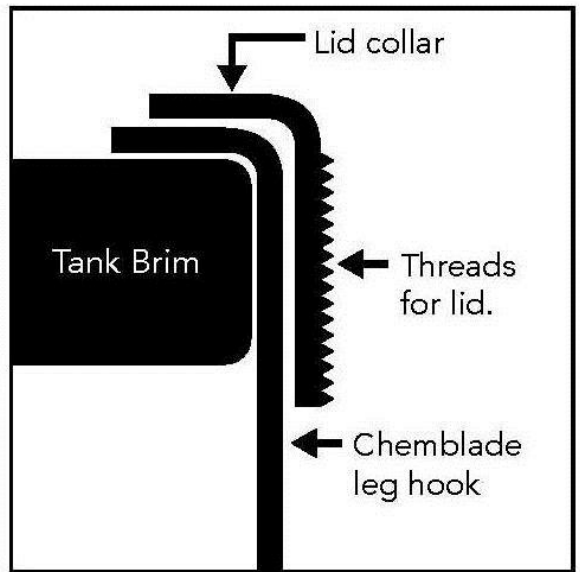


Fig. 3



Fig. 2



Fig. 4



Fig. 4



Fig. 5


CHEM-BLADE[®]

Safety and Operating Instructions


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 HIGH PRESSURE WATER USED WITH CHEMICALS POSES A RISK OF SPLASH WITH CHEMICAL RESIDUE. ALWAYS WEAR SAFETY GLASSES TO REDUCE THE RISK THAT WATER AND CHEMICAL COULD COME IN CONTACT WITH YOUR EYES.


 AGRICULTURAL CHEMICALS POSE NUMEROUS HAZARDS. BE SURE TO READ, UNDERSTAND AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BY THE CHEMICAL MANUFACTURER OR SUPPLIER REGARDING THE USE OF EACH CHEMICAL.

 ALWAYS USE ALL PERSONAL PROTECTIVE EQUIPMENT SPECIFIED BY THE CHEMICAL MANUFACTURER OR SUPPLIER WHICH MAY INCLUDE BUT NOT BE LIMITED TO CHEMICAL PROTECTIVE GLOVES, EYE PROTECTION, PROTECTIVE FOOTWEAR AND CLOTHING, AND NIOSH APPROVED RESPIRATORY PROTECTION.


 ALWAYS POSITION THE HANDLE AND LID OPENING OF THE CHEMICAL CONTAINER IN THE VERTICAL AND UPRIGHT POSITION WHEN OPERATING THE CHEM-BLADE IN ORDER TO BE ABLE TO HAVE A FIRM GRIP ON THE CONTAINER.

 SLOWLY OPEN RINSE SUPPLY VALVE TO MAKE SURE ONLY ENOUGH WATER PRESSURE IS APPLIED AND NOT TO OVER PRESSURE. TOO MUCH WATER PRESSURE COULD CAUSE YOU TO LOSE GRIP ON THE CHEMICAL CONTAINER, SPLASH CHEMICAL OR CAUSE THE RINSE HEAD TO FAIL. ONLY PARTIAL OPENING OF THE RINSE VALVE MAY BE NECESSARY.

 NEVER OPERATE THE RINSE HEAD WITH THE TANK LID OPEN AND WITHOUT THE LIQUID CHEMICAL CONTAINER POSITIONED OVER THE RINSE HEAD TO AVOID SPRAY OF WATER OR CHEMICAL OUT OF THE TANK.

 CHEM-BLADE IS DESIGNED FOR USE WITH 2.5 GALLON JUGS AND LARGER. DO NOT USE WITH SMALLER JUGS THAN 2.5 GALLON AND USE EXTREME CAUTION WITH SMALLER CONTAINERS TO AVOID HANDS AND ARMS COMING IN CONTACT WITH SHARP CHEM-BLADE POINT AND BLADES.

 CHEM-BLADE'S SHARP EDGES ARE DESIGNED TO LAST A LONG TIME WITHOUT SHARPENING. IN CASE BLADES NEED TO BE SHARPENED, USE GLOVES AND EXTREME CAUTION WHEN HANDLING AND REMOVING BLADE ASSEMBLY TO AVOID LACERATION AND PUNCTURE WOUND. CONTACT ECK FABRICATION FOR NEW BLADE ASSEMBLY.

 TO AVOID THE RISK OF SEVERE INJURY, INCLUDING LACERATION AND PUNCTURE WOUND, NEVER REACH INTO THE TANK TO RETRIEVE ANY OBJECT OR CONTAMINATE WITHOUT FIRST SAFELY REMOVING THE CHEM-BLADE.

Steps of Operation



TO AVOID SERIOUS PERSONAL INJURY, BE SURE TO READ, UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTION LISTED ABOVE AND ALL STEPS LISTED BELOW.

1. Firmly grab liquid chemical jug with one hand on the handle and one hand on the lid of the jug; for bags of dry chemical firmly hold two corners of the bag with two hands.
2. Suspend jug or bag centered vertically straight up from the tip of the Chem-Blade.
3. With speed Press container down onto Chem-Blade until container is half way down blades or until sufficient puncture has occurred so contents can empty. Use care not to push too far to avoid hands and arms coming in contact with the sharp point and edges of the Chem-Blade.
4. Once liquid chemical has emptied from the container, while keeping firm hold of the container, open rinse supply valve slowly and apply rinse. Slight side movements of jug while seated over Chem-Blade may result in more efficient rinse as this changes the angles of rinse spray action. **Do not use rinse for dry product application.**
5. After running the rinse system for the time specified by the chemical manufacturer or supplier, turn off rinse supply valve and allow container to drain completely as directed by the chemical manufacturer or supplier.
6. Pull straight up on container and remove it from the Chem-Blade and discard as directed by the chemical manufacturer or supplier.
7. Successful Operation – **More Time Saved; More Acres Sprayed!™**