



INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

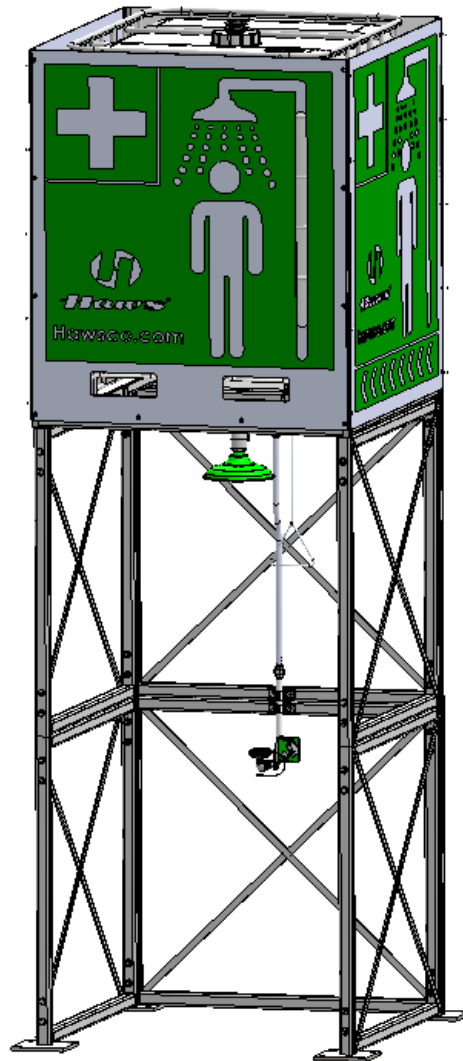
1455 Kleppe Lane ♦ Sparks, NV 89431-6467 ♦ (775) 359-4712 ♦ Fax (775) 359-7424
E-mail: haws@hawsco.com ♦ Website: www.hawsco.com

No. 0510000842(1)

Model 8740 / 874301S

Overhead Tank Shower and Optional Eye/Face Wash

Non-Electric, Self-Contained, Indoor, Gravity Fed



IMPORTANT

Read this installation manual completely to ensure proper installation, then file it with the owner or maintenance department. Compliance and conformity to drain requirements and other local codes and ordinances is the responsibility of the installer.

Separate parts from packaging and make sure all parts are accounted for before discarding any packaging material. If any parts are missing, do not begin installation until missing parts are obtained.

Flush the water supply lines before beginning installation and after installation is complete. Test the unit for leaks and adequate water flow. For ANSI Z358.1 compliance, the main water supply to the emergency fixture should be "ON" at all times. Provisions should be made to prevent unauthorized shutoff.

The ANSI Z358.1 standard requires a 20 GPM flow rate for the shower and a 3 GPM flow rate for the optional Eye/Face Wash of flushing fluid for 15 continuous minutes. Haws Model 8740 self-contained shower requires a **minimum fill pressure of 20 PSI and a minimum fill flow rate of 15 GPM for the shower only or 20 GPM for shower and optional Eye/Face Wash combination** at the automatic refill connection to meet this requirement. Flushing fluid should be tepid per ANSI Z358.1. Haws Model 8740 should be installed in an indoor area that has an ambient temperature between 60°F and 100°F to meet this tepid water requirement.

The tank water level should be checked weekly to ensure that the tank is full. For ANSI Z358.1 compliance, the automatic refill connection must be connected to an adequate potable water source.

This unit discharges water to the floor. **It is recommended that this unit be installed in an area that has adequate floor drainage.** Failure to do so may result in major property damage.

DESCRIPTION OF PRODUCT

Haws Corporation Model 8740 non-electric, self-contained overhead tank shower and optional Model 874301S Eye/Face Wash is designed for use in indoor areas where the temperature is normally between 60°F and 100°F. The 330-gallon high density polyethylene (HDPE) overhead tank is discharged by gravity upon shower or optional Eye/Face Wash activation. The unit is equipped with a 1-1/4" NPT inlet water connection and float valve for automatic refill.

The unit is designed to meet ANSI Z358.1 standards for flow and duration if it is connected to a suitable permanent potable water source. Haws Model 8740 self-contained shower requires a minimum fill pressure of 20 PSI and a minimum fill flow rate of 15 GPM for the shower only or 20 GPM for shower and optional Eye/Face Wash combination at the automatic refill connection to meet this requirement. Water should be tepid per ANSI Z358.1. Haws Model 8740 should be installed in an indoor area that has an ambient temperature between 60°F and 100°F to meet this tepid water requirement.

The optional Model 874301S Eye/Face Wash available for this unit utilizes Haws Axion MSR (Medically Superior Response®) eyewash design. The AXION MSR Eye/Face Wash uses an inverted stream design which sweeps chemical and particulate contaminants away from the vulnerable nasal cavity, consistent with medical irrigation protocols.

Although optional, the Model 9084 is recommended for use with the Model 8740. The Model 9084 is an immersible Cleansing Stick that gives continual protection against pathogenic bacteria for water storage systems. It balances the PH of the water preventing the build-up of bio-film, scale, and corrosion for up to 3 years with proper usage.

SHIPPING, HANDLING AND STORAGE

Model	Description	Dimensions W x L x H (Assembled)	Dry Weight	Filled (Wet) Weight	Dimensions W x L x H (Shipping)	Weight (Crated)
8740	Haws Overhead Tank Shower	55" x 59" x 150"	975 lbs.	3750 lbs.	60" x 49" x 79"	1025 lbs.

Recommended Equipment, Materials, and Supplies to be provided by Installer:

- Existing slab on grade. The installer shall verify that the following minimum requirements of the existing slab-on-grade are satisfied.
 - Allowable Soil Bearing Pressure: 1500 psf
 - Slab-on-grade minimum thickness: 6 inches
 - Compressive Strength of slab, f'c: 3000 psi
 - Adequate footprint area (minimum 6' x 6' recommended)
 - Adequate vertical space (minimum 14.5 ft. recommended, 13 ft. required)
- Recommended anchors (Not Included, customer to determine anchor suitability):
High strength adhesive anchors (ICC-ES Report ESR-3187): Hilti HIT-HY 200 Safe Set epoxy adhesive anchorage system and Hilti hollow drill bit system with 5/8" diameter Hilti HIT-Z Rod, 2 ASTM F844 flat washers, and ASTM A563 Grade A nuts. Frame Feet mounting holes are 13/16" diameter. Hilti specifies 3-3/4" minimum embedment depth per HIT-Z specifications. Frame Feet have four (4) 13/16" diameter clearance holes (16 total anchors).
- A forklift capable of lifting 2,000 lbs. should be utilized to transport the unit from truck to site and to lift tank into position.

Tools and Supplies

- Impact drill/driver with 5/16" nut driver (For Optional Eye/Face Wash Option).
- Steel Strap Shears
- Torque wrench with 7/8" and 9/16" sockets.
- 7/8" and 9/16" box end wrenches.
- Plumbing supply materials including potable water-safe thread sealant for PVC.
(Automatic refill water connection is 1-1/4" NPT male pipe fitting.)
- Appropriate personal protective equipment including safety glasses and work gloves.

Storage

The unit should be stored in a clean, dry place until ready for installation.

PALLET CONTENTS

NOTE: Confirm all components listed for the Model 8740 are present before assembly. See Figure 1.
(For optional Model 874301S Eye/Face Wash Assembly components see page 21.)

ITEM #	DESCRIPTION	QUANTITY
1	Tank Assembly	1
2	Frame Back Panel	2
3	Frame Side Panel	4
4	Frame Feet	4
5	Frame Connection Bars	4
6	½-13 X 3" Bolt	16
7	½-13 X 5" Bolt	16
8	½" Flat Washer	64
9	½" Lock Washer	32
10	½-13 Nut	32
11	Shower Piping Assembly	1
12	Shower Head	1
13	Shower Pull Rod	1
14	1-5/8" x 38" Steel Strut	1
15	3/8-16 X 1-1/4" Bolt	2
16	3/8" Flat Washer	4
17	3/8-16 Nut	2
18	1-1/2" Strut Pipe Clamp Assembly (2 straps, 1 bolt, 1 nut)	1
19	Tank Breather Vent, 2" NPT	1

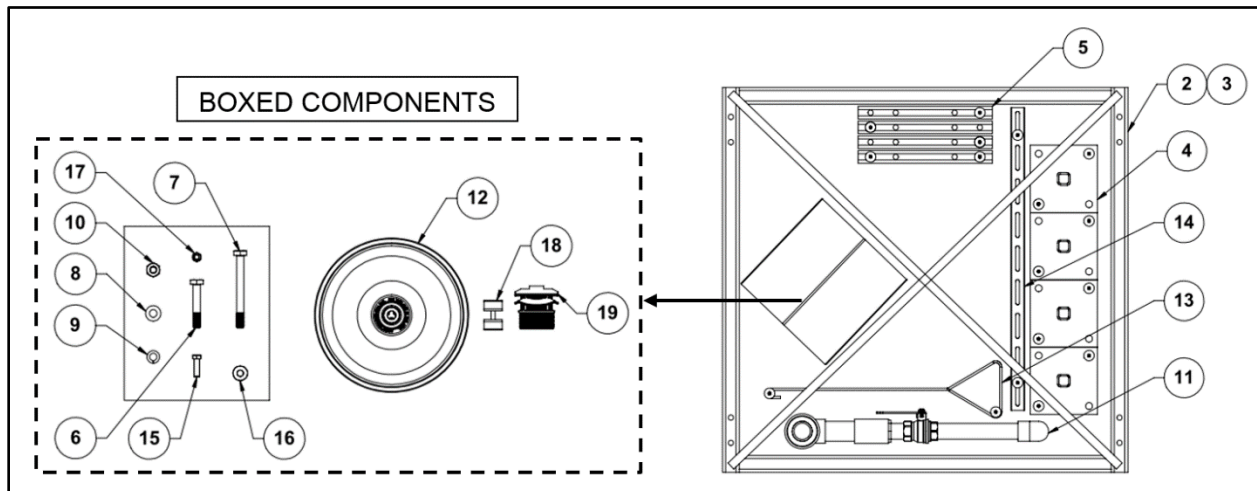


Figure 1. Pallet Contents Model 8740; Item #1 Tank Assembly Removed

MODEL 8740 ASSEMBLY & INSTALLATION PROCEDURE

1. Transport the palletized unit to the installation point via forklift, ensuring the forks are inserted through the shipping pallet.
2. The installation area should be located indoors on a level floor capable supporting up to 4,000lbs spread across the four Frame Feet. Suitable concrete flooring is preferred. If unit is to be placed over a drain, the drain should be able to handle a flow of 35 GPM; otherwise, the slab should allow the water to drain away from the unit.
3. Confirm there is suitable available vertical space where the unit is to be installed. The unit requires a minimum of 13ft vertical space for installation, 13.5ft of vertical space for assembly, and 14.5ft of vertical space to insert or remove the optional Model 9084 Cleansing Stick if utilized.
4. Remove the plastic wrap packaging around the palletized unit.
5. Cut the three (3) steel bands that strap the unit to the wooden pallet as shown in Figure 2. DO NOT cut the steel bands on top of the tank assembly (these 4 bands retain the tank on the tank frame and will not be removed).

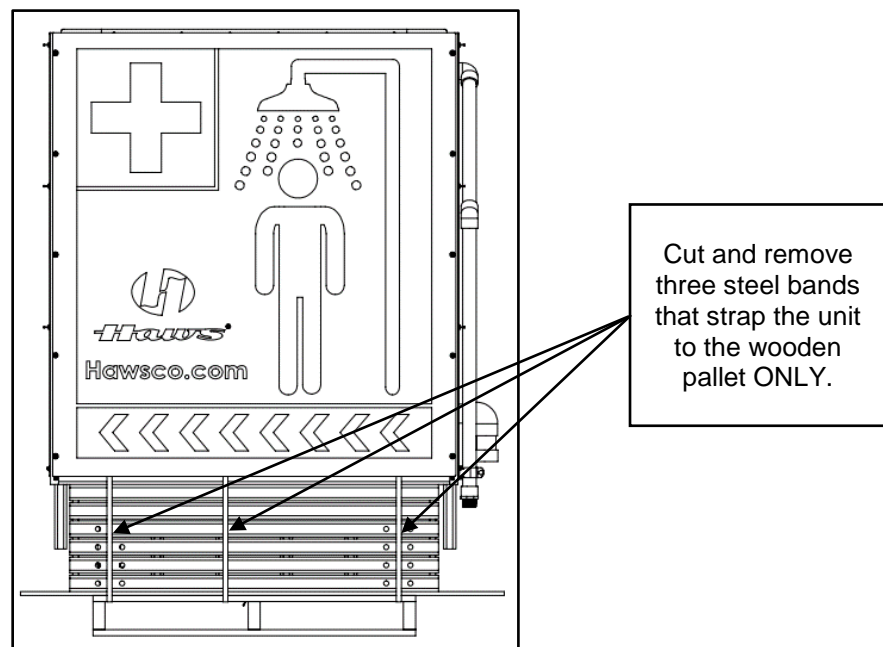


Figure 2. Removing 3 Steel Bands

6. Use a forklift to lift the Tank Assembly (Item #1) from the palletized unit, using the fork slots on the Tank Assembly, and set the Tank Assembly aside.
7. Remove box of components from the pallet and remove components from the box. Next, remove shipping screws/washers holding frame components to pallet. Discard shipping/screws. Place all components in a secure area until needed.

8. At the top of the tank, remove the shipping plug from top cap and cut cable tie holding the float for shipping protection. Ensure the cable tie does not drop into the tank. See Figure 3.

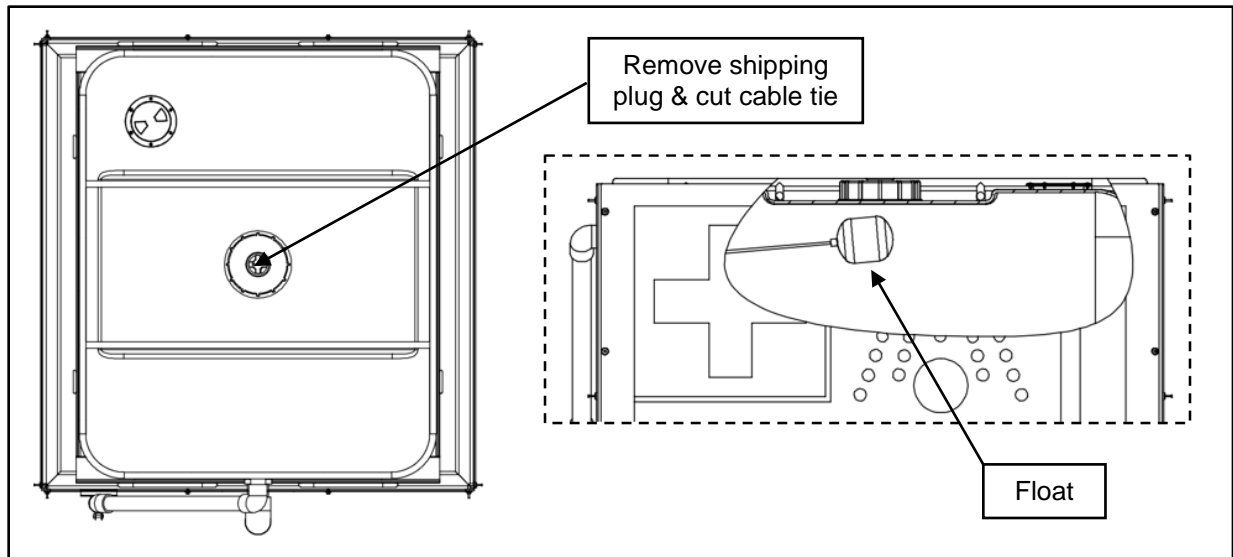


Figure 3. Remove Shipping Plug and Detach Shipping Protection for Float

9. Figure 4 shows an exploded view of the assembly.

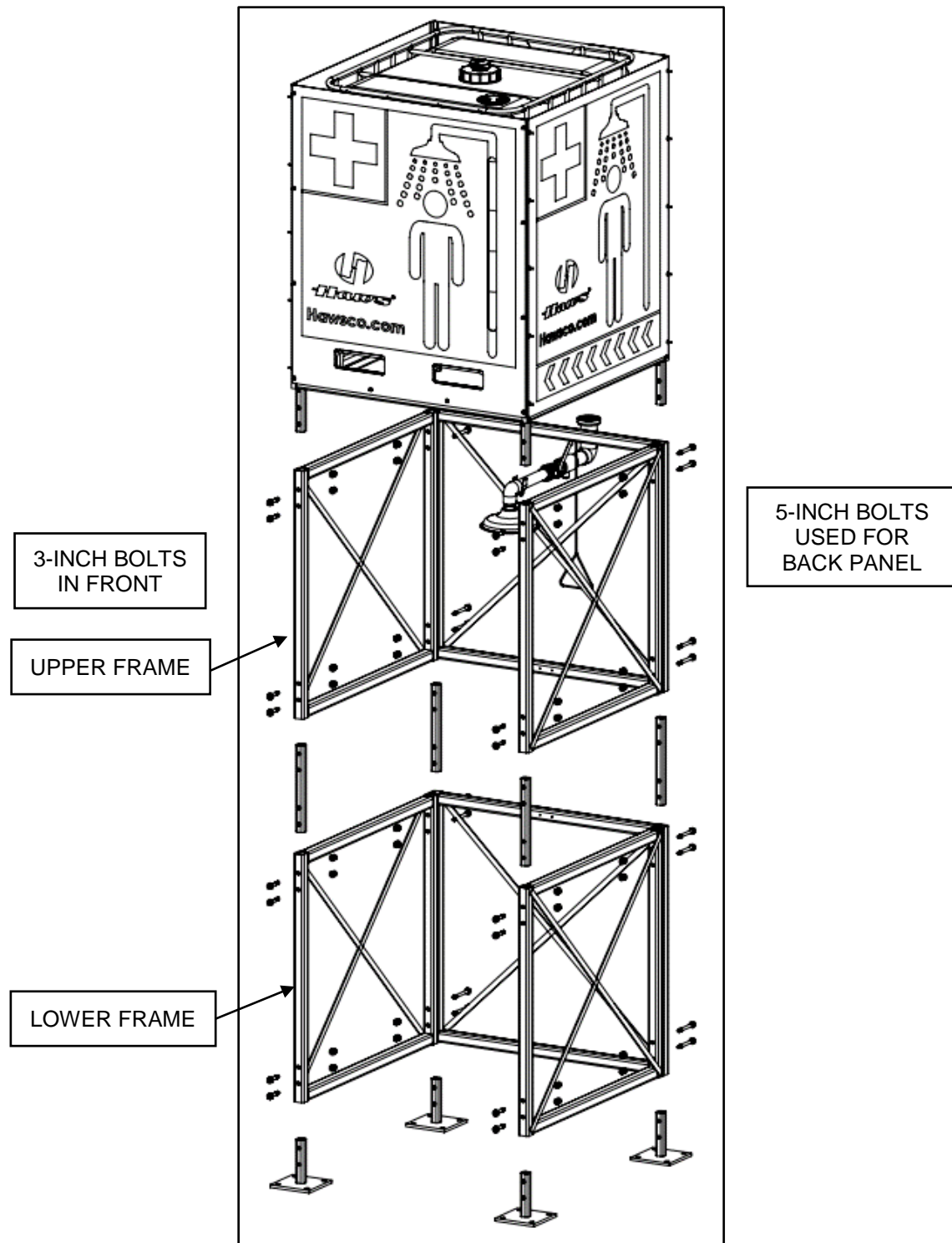


Figure 4. Exploded View of Model 8740

10. Begin by assembling the lower frame shown in Figure 5. With all four (4) Frame Feet present, place one Frame Back Panel over two back Frame Feet posts. Holes must be aligned front to back and panel cross-bracing strips must be on the outside (toward the back) as shown in Figure 5.

IMPORTANT!! The two (2) mounting holes must be oriented as shown in Figure 5 to ensure unit can accept optional Model 874301S Eye/Face Wash in the future.

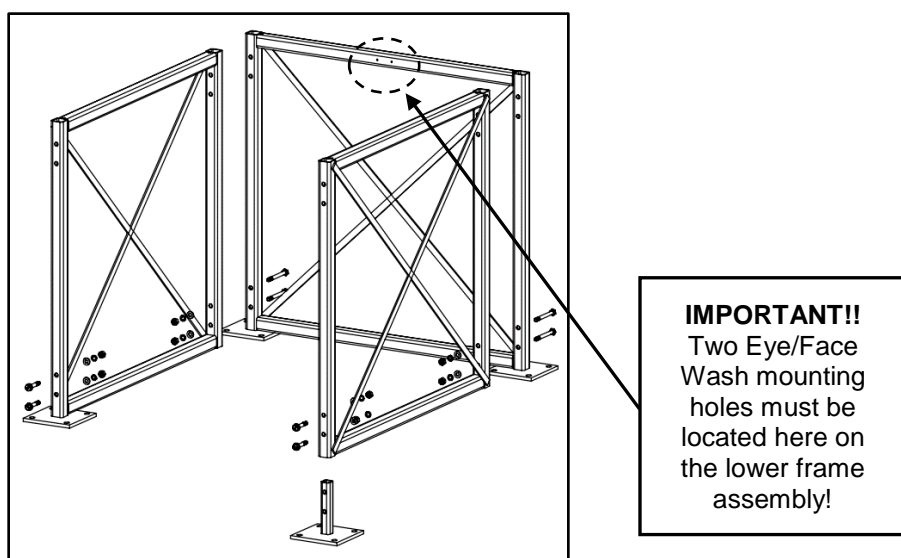


Figure 5. Lower Frame

11. Place one (1) Frame Side Panel over each of the two (2) front Frame Feet posts with the panel cross-bracing strips to the outside as shown in Figure 5.
12. Set the back of each of the two (2) Side Frame Panels on the Frame Feet plates of the Back Panel with the mounting holes aligned as shown in Figure 6. Confirm the panel cross-bracing strips are on the outside.

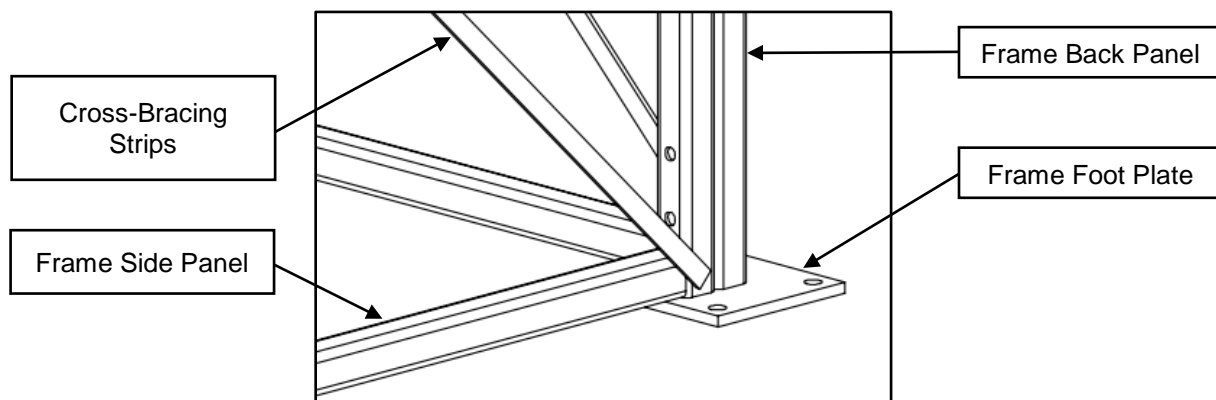


Figure 6. Frame Side Panel on Back Frame Foot

13. Typical bolting arrangement is shown in Figure 7 for reference in the next steps.

- 5" bolting is for attachment of back panels through feet or connectors to side panels and 3" bolting is for side panels through connectors or feet only.
- Bolting should consist of one 1/2-13 x 5" bolt (Item #7) or 1/2-13 x 3" bolt (Item #6), two 1/2" flat washers (Item #8), one 1/2" lock washer (Item #9), and one 1/2-13 nut (Item #10).

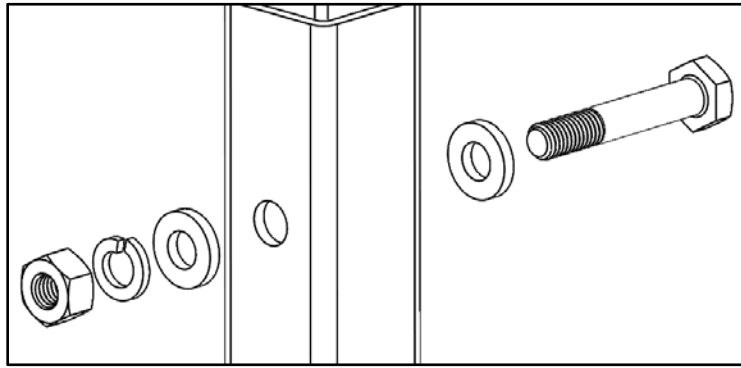


Figure 7. Typical Bolting Arrangement (3" Bolt Shown)

14. With mounting holes aligned as shown in Figure 8, place four (4) each 5" bolts from back to front in the lower frame holes only to secure Frame Side Panels to Frame Back Panel and Frame Feet. Refer to Figure 7 for bolting arrangement.

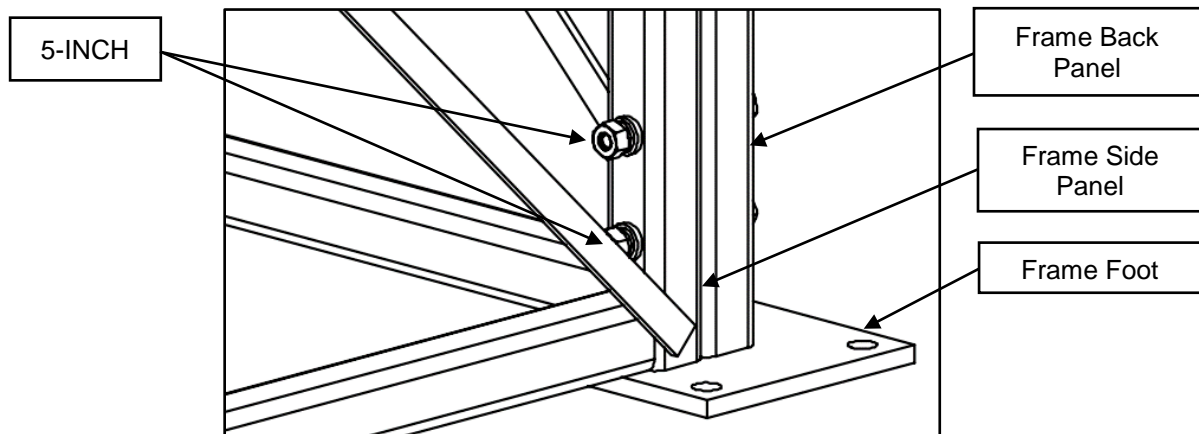


Figure 8. Connecting Frame Side Panels to Frame Back Panel

15. Place four (4) each 3" bolts from front to back in the front portion of lower Frame Side Panel holes to secure the front Frame Feet as shown in Figure 9. Refer to Figure 7 for bolting arrangement.

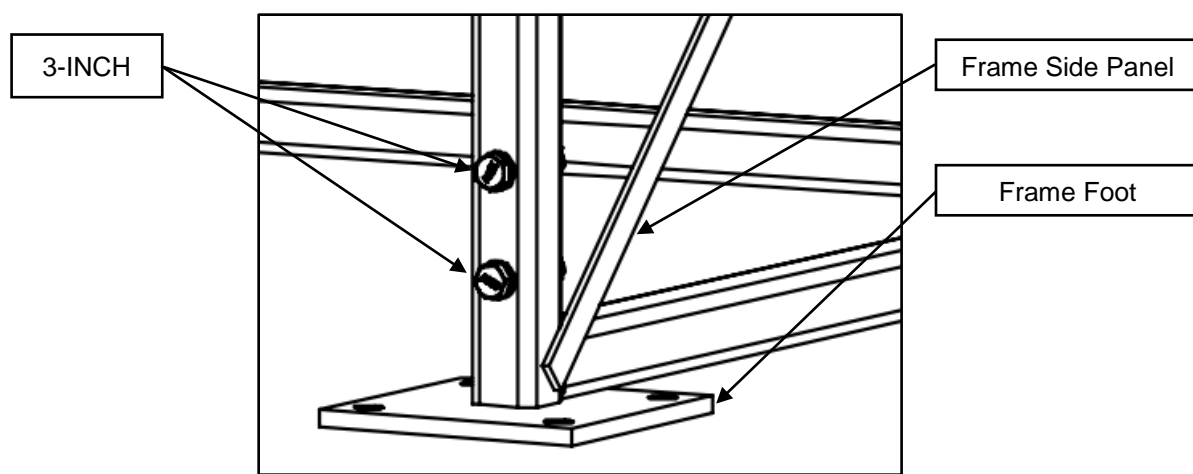


Figure 9. Securing Side Panels to Frame Feet

16. Install the Frame Connection Bars (Item #5) as shown in Figure 10 by inserting two (2) bars in the Frame Back Panel and one (1) bar in the front portion of each Frame Side Panels. Align the bottom two holes of the bars with top two holes of the frame panels and bolt in place with four (4) total 5" bolts in the back and four (4) total 3" bolts in the front. Refer to Figure 7 for bolting arrangement.

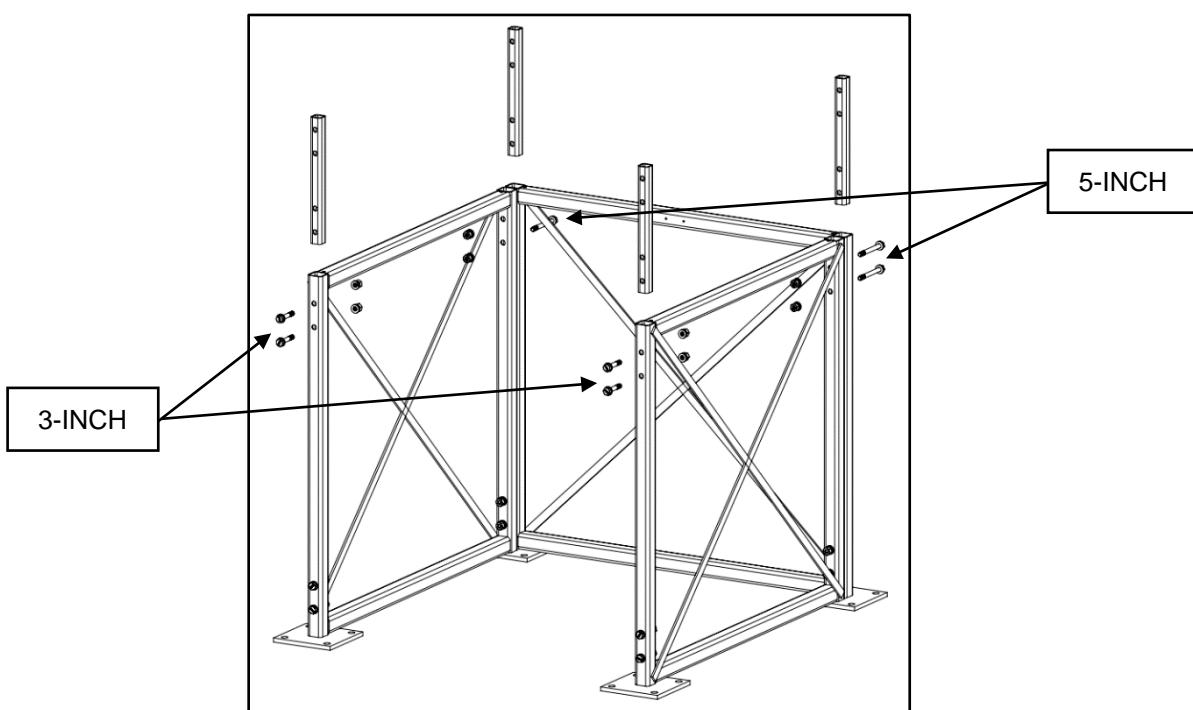


Figure 10. Installing Frame Connection Bars

17. Next, build the upper frame assembly. Form the upper frame assembly by placing the back and side frame panels as shown in Figure 11. Verify the cross-bracing strips on each panel are to the outside of the assembly, and bolt together with four (4) each 5" bolts from back to front in the bottom of the frame, finger-tight. Refer to Figure 7 for bolting arrangement.

NOTE: *These bolts are installed temporarily and will need to be removed and reinstalled in a future step.*

IMPORTANT!! The two (2) mounting holes must be oriented as shown in Figure 11 to ensure unit can accept optional Model 874301S Eye/Face Wash in the future.

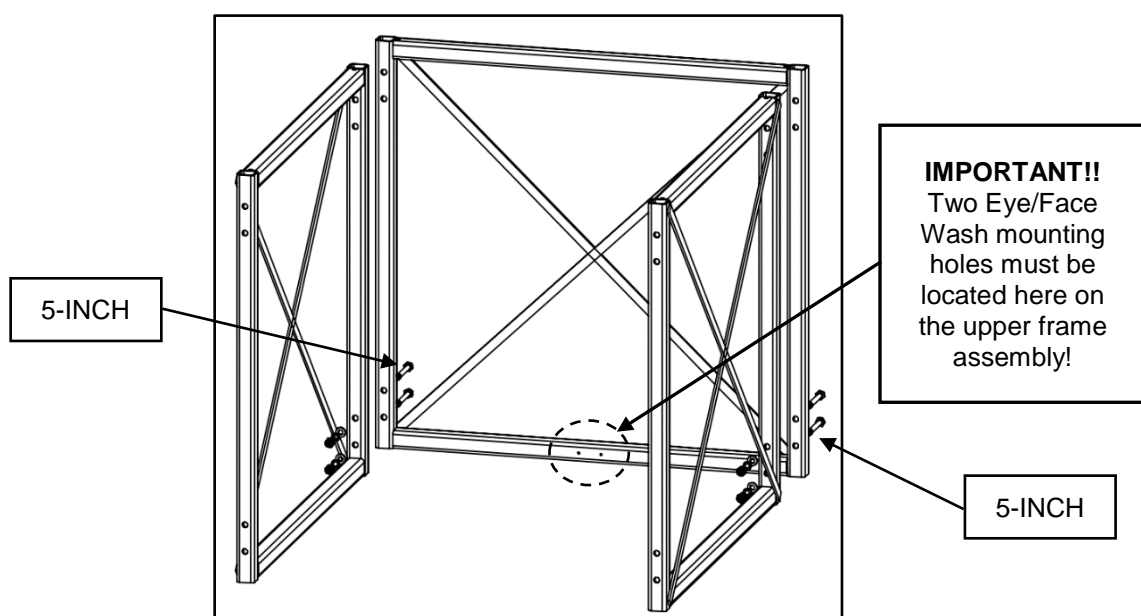


Figure 11. Installing Lower Bolts (5-inch) Temporarily to Form Upper Frame Assembly

IMPORTANT!! Ensure the cable tie (shipping float support) is cut and shipping plug is removed from the 6" cover on the top of the tank. Inspect the float and confirm the float is firmly installed on the float valve. Inspect the inlet piping for any shipping damage and inspect the bulkhead fitting where the float valve is installed. It is better to address any concerns about the tank before it is on top of the frame

IMPORTANT!! Haws strongly recommends the use of the Haws Model 9084 Cleansing Stick to provide prolonged (up to 3 years) water treatment for the water in this tank. If this product has been purchased, install it in the tank now. Instructions for installation located on page 26.

18. Install Tank Breather Vent (Item #19) where the shipping plug was located in the 6" cap as shown in Figure 12.

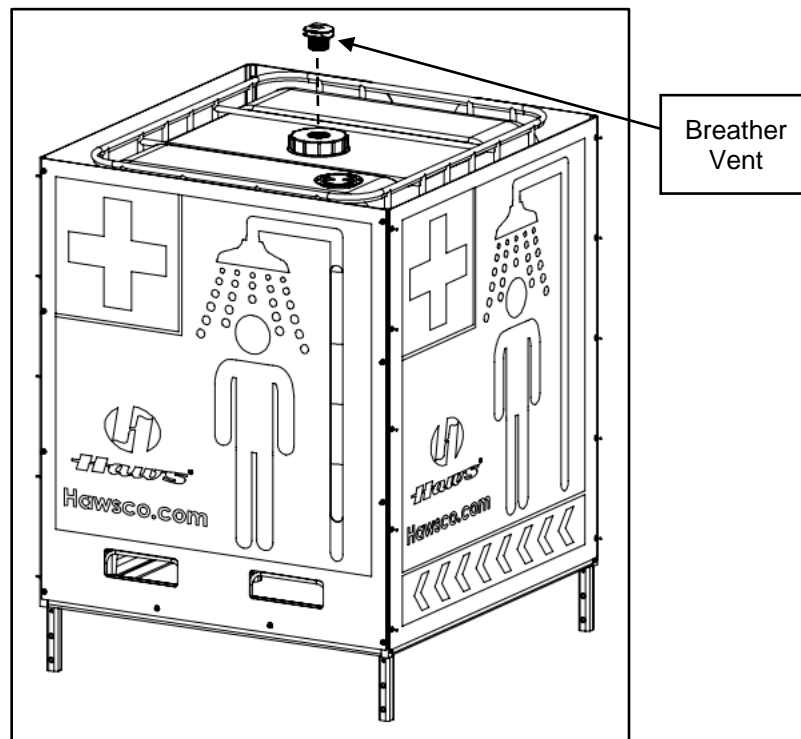


Figure 12. Installing Breather Vent (Item #19)

19. Use a suitable forklift to lift the Tank Assembly (Item #1) over the upper frame assembly as shown in Figure 13. Carefully align and insert the tank frame legs into the upper frame assembly while carefully lowering the tank.

WARNING: Never place fingers, hands, or any other body part between upper frame assembly and Tank/Tank Frame Assembly while installing the unit!

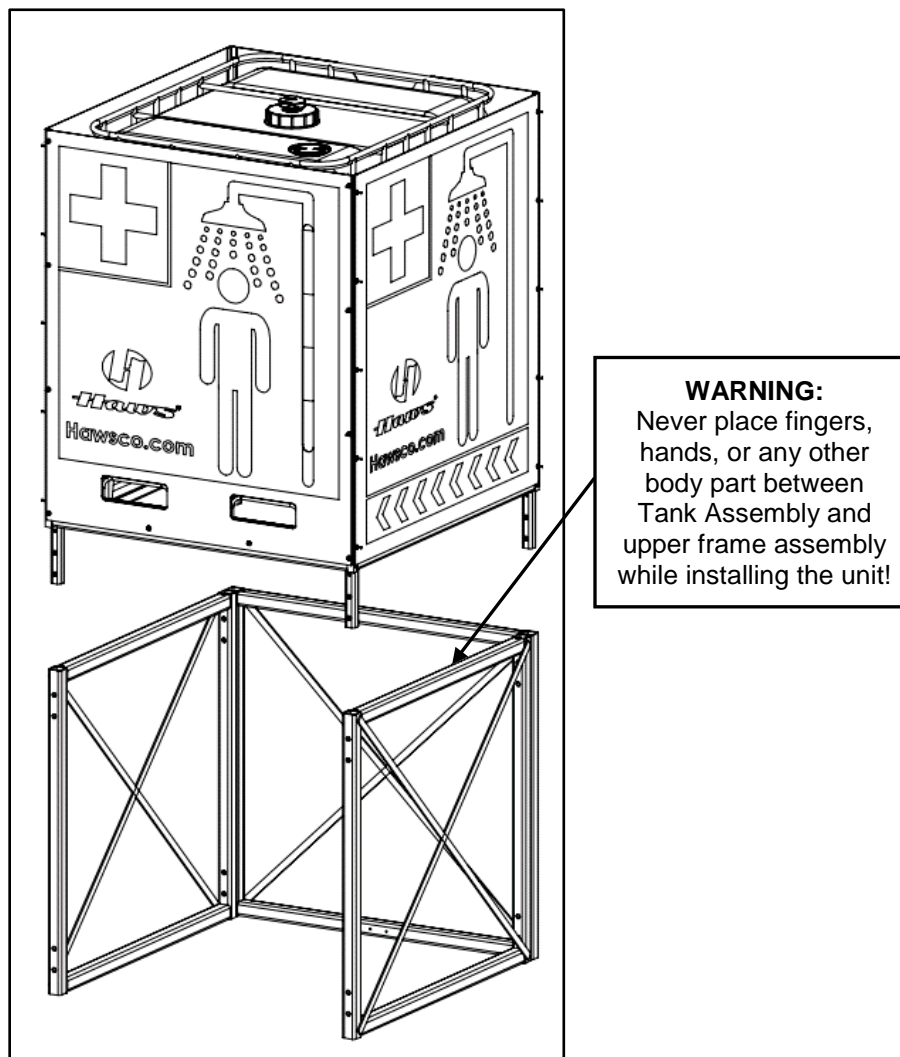


Figure 13. Setting Tank Assembly on Upper Frame

20. Use the forklift as needed to align bolt holes and install four (4) each 5" bolts from back to front through Back Frame Panel and Side Frame Panels and four (4) each 3" bolts from front to back of the Frame Side Panels as shown in Figure 14. Refer to Figure 7 for bolting arrangement.

WARNING: Never place fingers, hands, or any other body part between upper frame assembly and Tank Assembly while installing the unit!

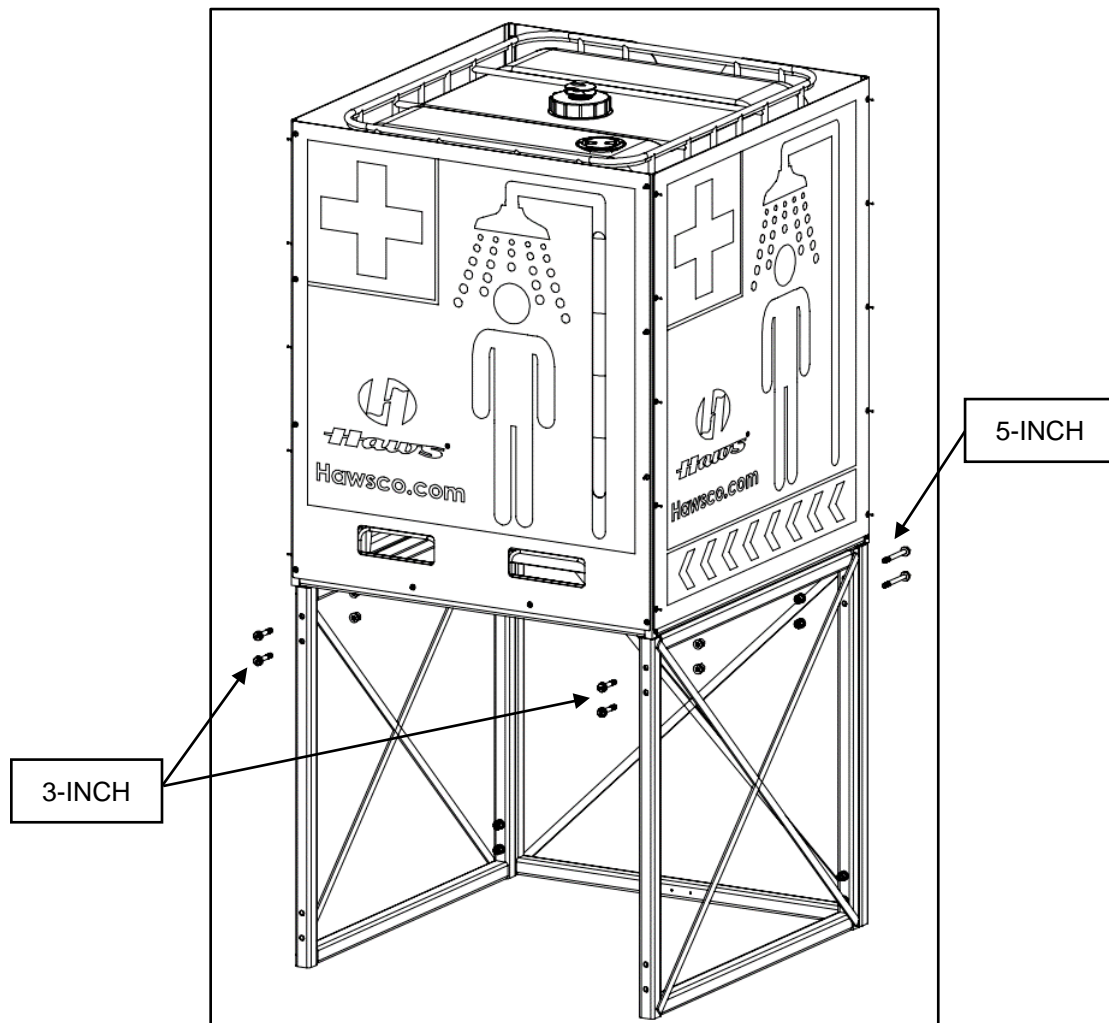


Figure 14. Bolting the Tank Assembly to the Upper Frame

21. Use two (2) each 3/8-16 X 1-1/4" bolts (Item #15) to install Steel Strut (Item #14) to the underside of the two (2) tabs under the Tank Assembly as shown in Figure 15. The 1-1/4" bolting should consist of one 3/8-16 X 1-1/4" bolt (Item #15), two 3/8" Flat Washers (Item #16), and one 3/8-16 Nut (Item #17). The open side of the channel should face down. Tighten the two (2) bolts with a torque wrench to 23 ft-lb.

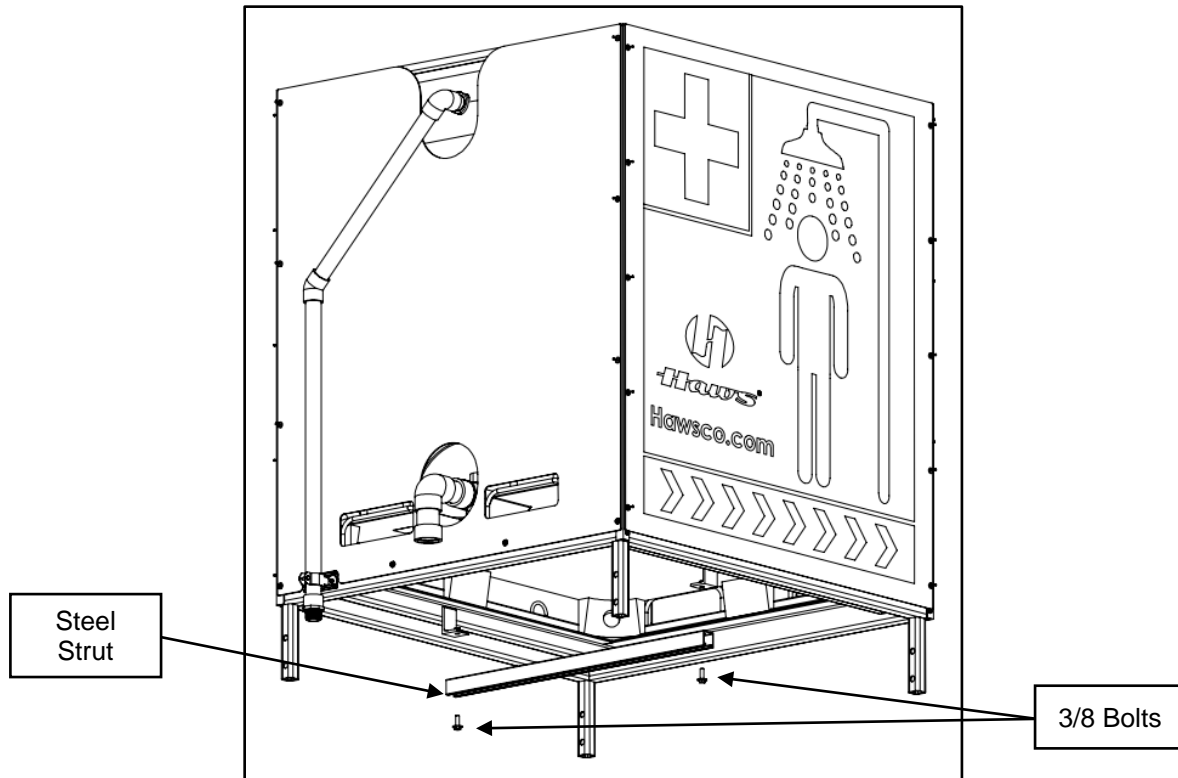


Figure 15. Mounting Steel Strut for Shower Piping (Side Frame Panels Not Shown for Clarity)

22. Install the Shower Piping Assembly (Item #11) from the back of the shower by threading the union nut on the assembly to the union end on the tank as shown in Figure 16.

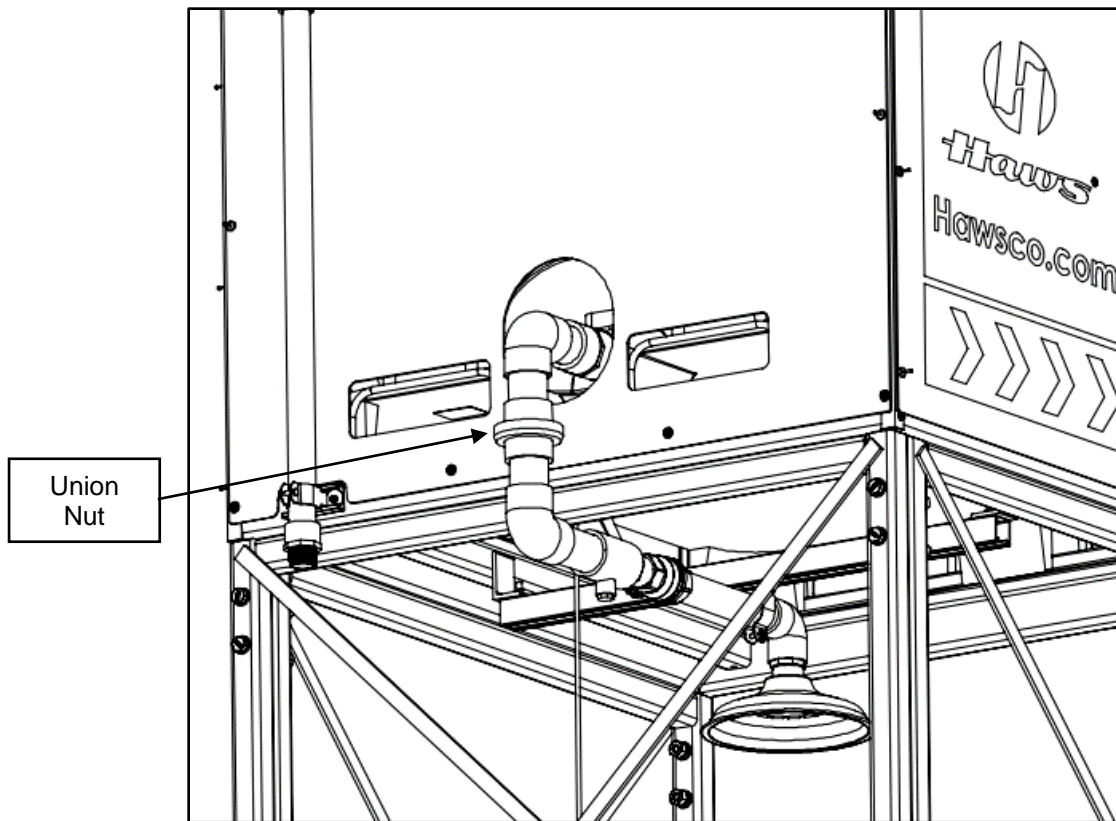


Figure 16. Installing the Shower Pipe Mount Steel Strut and Shower Piping Assembly to the Tank Union

23. Remove the nut and bolt from the 1-1/2" Strut Pipe Clamp Assembly (Item #18), insert the two (2) clamp halves onto the Shower Pipe Mount Steel Strut (Item #14) around either side of the shower pipe, and re-install the clamp bolt and nut as shown in Figure 17. Center the shower approximately, push elbow closely toward strut and tighten the bolt and nut until the shower pipe is held firmly. (Take care to not overtighten.)
24. Thread Shower Head (Item #12) onto end of Shower Piping Assembly. See Figure 17.

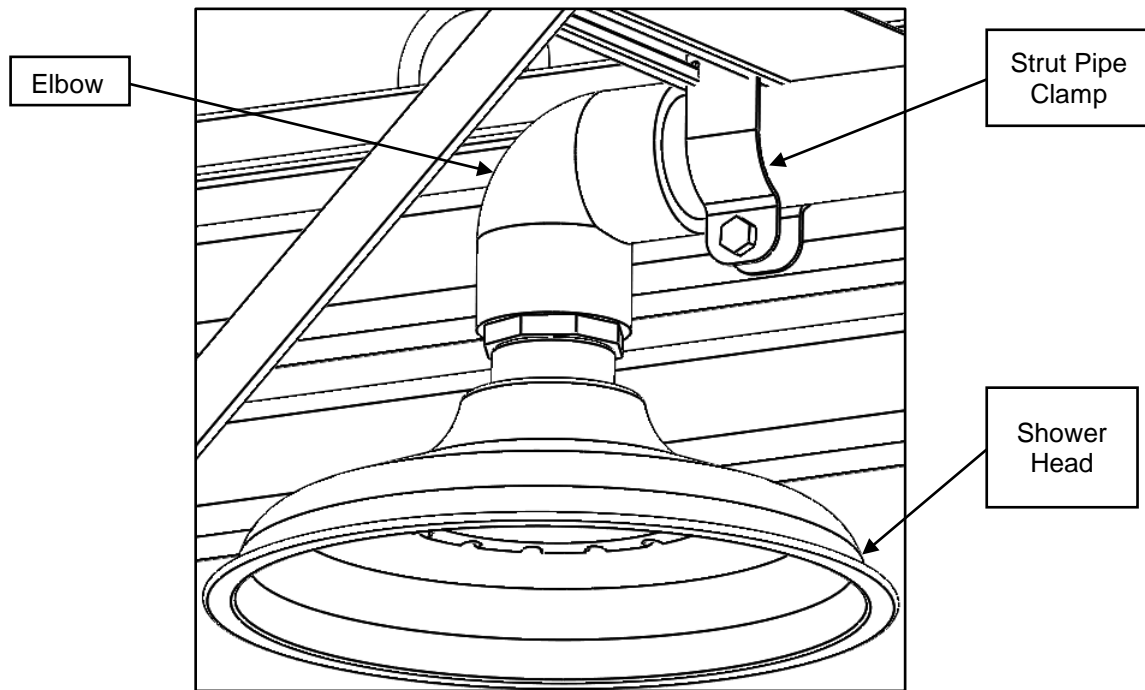
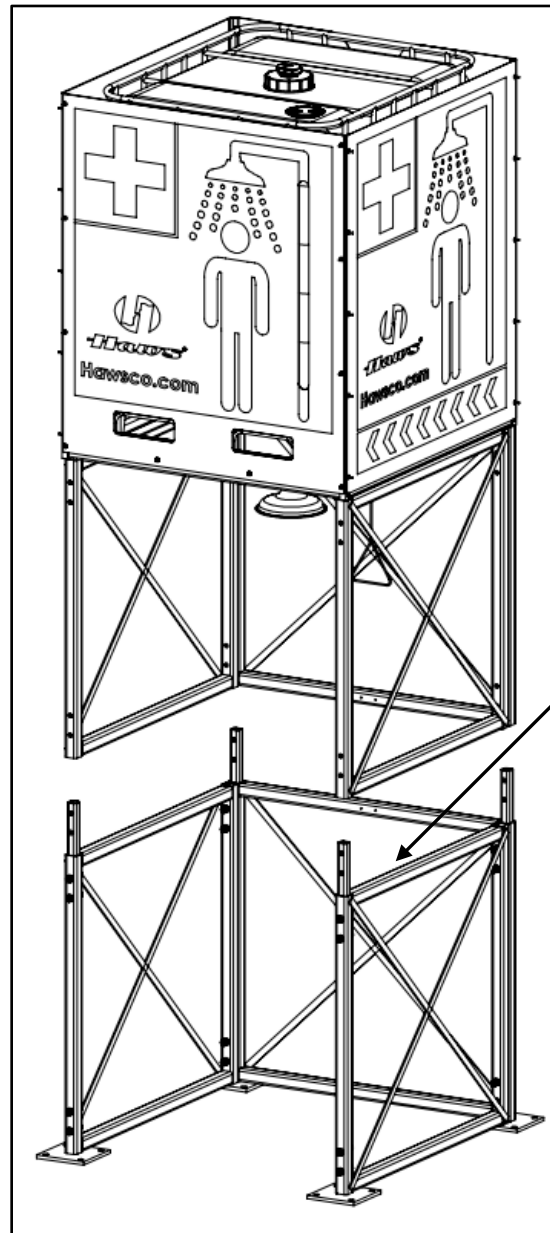


Figure 17. Strut Pipe Clamp Assembly and Shower Head/Bell

25. Remove the four (4) 5" bolts holding the bottom of the upper frame panels together that were previously temporarily installed from Step 17. Reference Figure 11.
26. Confirm the lower frame is located as desired for long term installation.

27. From the front, use the forklift to lift the Tank Assembly and upper frame assembly over the lower frame assembly. Carefully set the upper half of the frame on the lower half of the frame over the four (4) Frame Connection Bars.

WARNING: Never place fingers, hands, or any other body part between upper frame assembly and Tank/Tank Frame Assembly while installing the unit!



WARNING:
Never place fingers, hands, or any other body part between Tank Assembly/upper frame assembly and lower frame assembly while installing the unit!

Figure 18. Mounting Tank Assembly and Upper Frame to Lower Frame

28. Bolt the Tank Assembly and upper frame assembly to the lower frame assembly through the Frame Connection Bars as shown in Figure 18. Use the forklift as needed to align bolt holes. Replace the four (4) 5" bolts removed in Step 27 from back to front through the Frame Back Panel and Frame Side Panels of the upper frame assembly and install four (4) 3" bolts from front to back in the front mounting holes of the Frame Side Panels. Refer to Figure 7 for bolting arrangement.

IMPORTANT!! Using a torque wrench and 7/8" socket, tighten **ALL** 1/2-13 frame bolts to 100 ft-lbs.

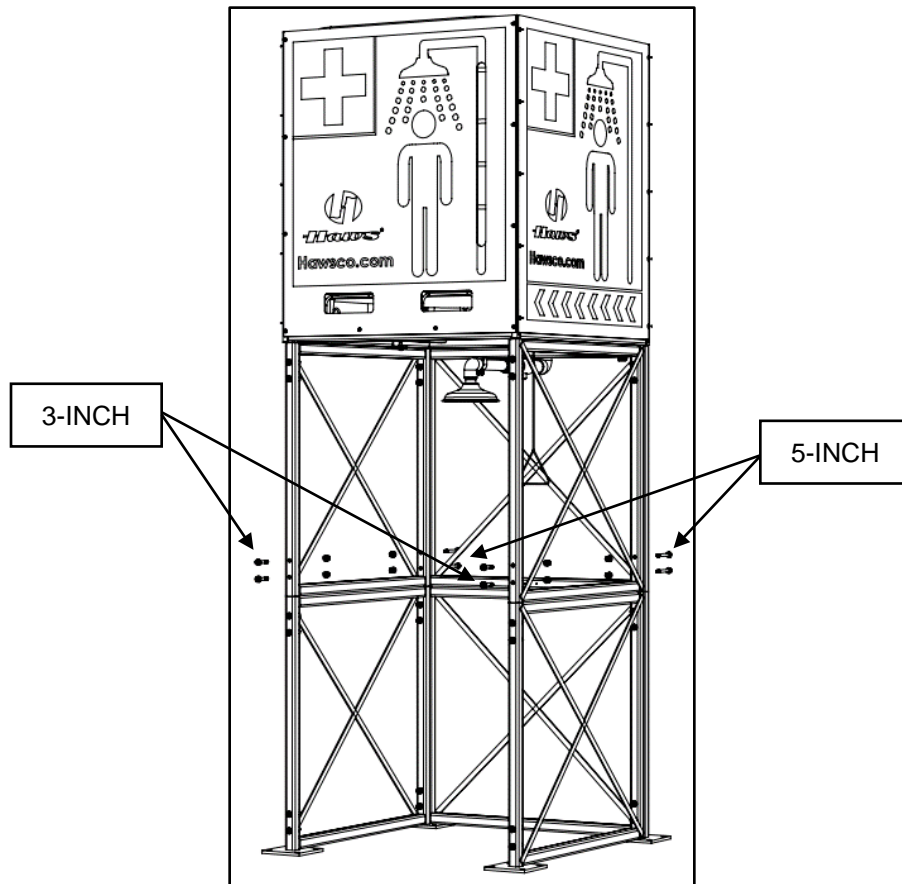


Figure 18. Bolting Upper Frame Assembly to Frame Connection Bars in Lower Frame Assembly

29. Insert end of Shower Pull Rod (Item #13) through hole in Shower Piping Assembly ball valve handle.

30. Install suitable concrete anchors through mounting holes in Frame Feet per the manufacturer's instructions. Customer to determine anchor suitability.

OPTIONAL MODEL 874301S EYE/FACE WASH ASSEMBLY (If Applicable)

PACKAGE CONTENTS

NOTE: Confirm all components for the Model 874301S listed are present before assembly. See Figure 19.

ITEM #	DESCRIPTION	QUANTITY
1	Eye/Face Wash Piping Assembly	1
2	Eye/Face Wash Mount Steel Strut	2
3	1/2" Strut Pipe Clamp Assembly	2
4	1/2" NPT x 1/2" Nylon Hose Barb	1
5	1/4" Fender Washer	4
6	#12-24 X 7/8" Self-Drilling Screw (5/16" Hex Head)	4
7	1/2" X 36" Flexible Tube	1
8	Push Flag	1
9	AXION MSR Eye/Face Wash Head	1
10	AXION MSR Eye/Face Wash Cover	1
11	Small Cable Tie	2
12	Large Cable Tie	1

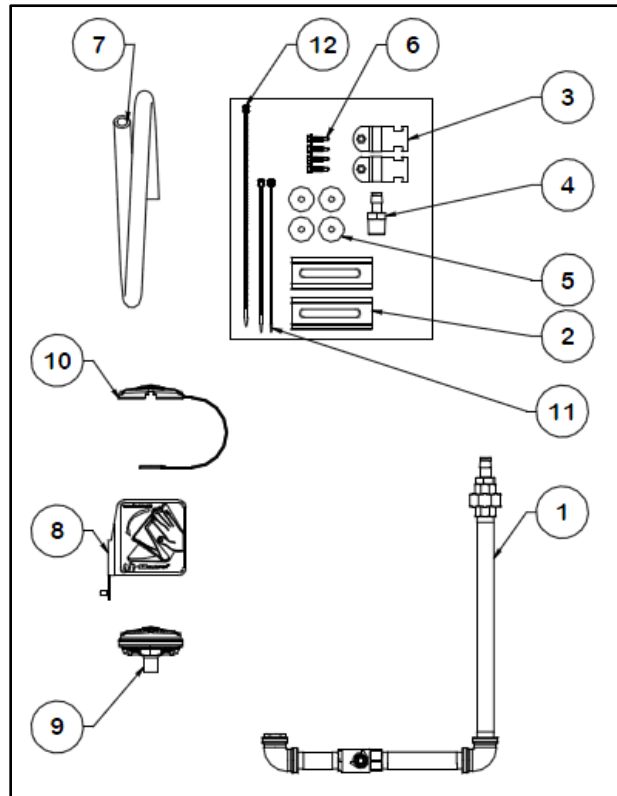


Figure 19. Eye/Face Wash Carton Contents

MODEL 874301S ASSEMBLY PROCEDURE

1. Place one (1) Eye/Face Wash Mount Steel Strut (Item #2) approximately in the center of the lower bar over the two Eye/Face Wash mounting holes as shown in Figure 20. The holes are drilled, but not tapped.

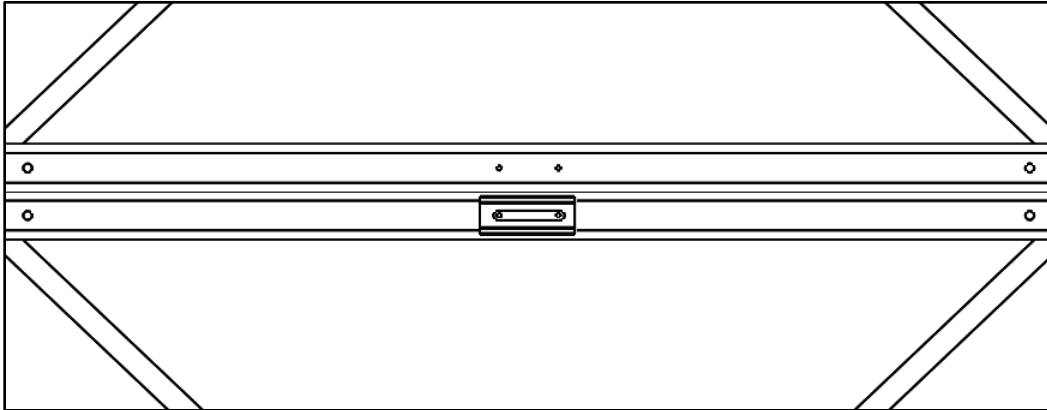


Figure 20. Eye/Face Wash Mount Steel Strut Placement

2. Place two (2) 1/4" Fender Washers (Item #5) over two (2) #12-24 X 7/8" Self-Drilling Screws (Item #6). Work the fender washer/screw into either end of the strut. Use an impact driver with a 5/16" hex driver to drive the self-drilling screws into the mounting holes through the slot in the strut as shown in Figure 21.

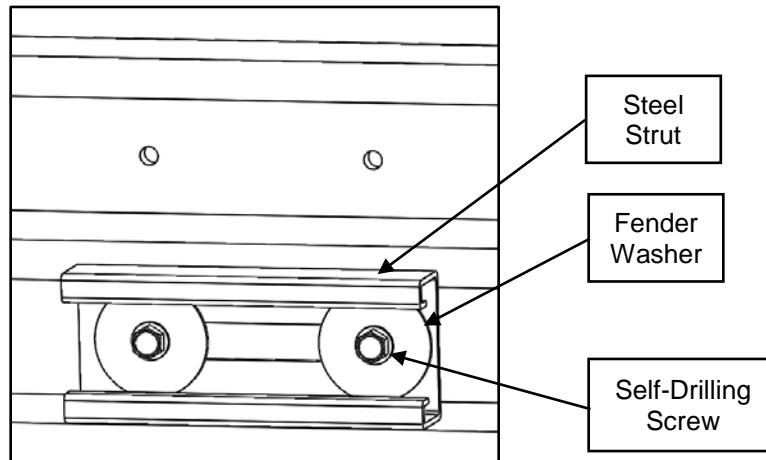


Figure 21. Washer and Screw Placement

3. Repeat Steps 1 and 2 for second Eye/Face Wash Mount Steel Strut. Results should resemble Figure 22.

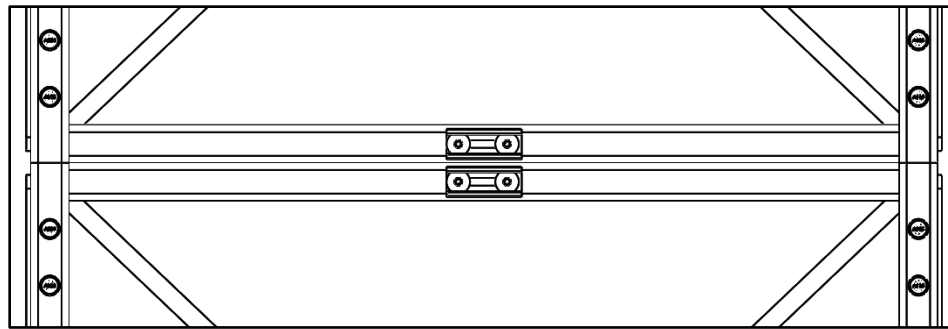


Figure 22. Two (2) Eye/Face Wash Mount Steel Struts Installed

4. Remove the nut and bolt from one 1/2" Strut Pipe Clamp Assembly (Item #3) and work the two clamp halves into the upper Eye/Face Wash Mount Steel Strut (Item #2) by twisting them sideways between the two screw heads.
5. Place the vertical pipe from the Eye/Face Wash Piping Assembly (Item #1) into the clamp, then install the bolt and nut into the clamp. Center the clamp in the strut and finger tighten the clamp as shown in Figure 23.
6. Repeat step 4 with the second 1/2" Strut Pipe Clamp Assembly, placing the clamp assembly in the lower Eye/Face Wash Mount Steel Strut and around the Eye/Face Wash Piping Assembly.

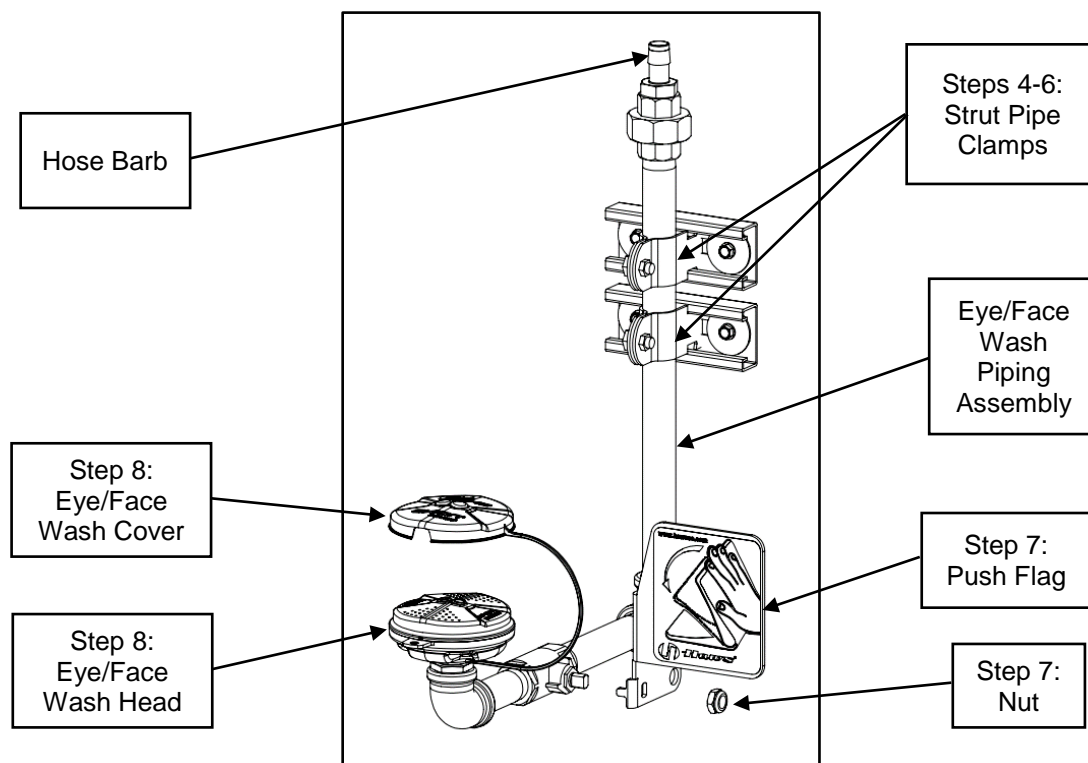


Figure 23. Eye/Face Wash Assembly (Frame Hidden for Clarity)

7. Remove hex nut from ball valve handle, place Push Flag (Item #8) on valve stem as shown in Figure 23, then replace and tighten nut.
8. Place ring of Eye/Face Wash cover (Item #10) over nipple on Eye/Face Wash Head (Item #9) and install the head as shown in Figure 23.
9. Use a measuring tape to measure the distance between the floor and the top of the Eye/Face Wash head. Adjust the vertical location of the Eye/Face Wash Piping Assembly until the top of the Eye/Face Wash head is approximately 40". Tighten the bolts and nuts in the two clamps to hold the Eye/Face Wash Piping Assembly firmly in place.

NOTE: This should result in an ANSI Z358.1 compliant stream height, however this should be tested and adjusted after water supply is connected.

10. Carefully push one end of the 1/2" X 36" Flexible Tube (Item #7) over the hose barb on the top of the Eye/Face Wash Piping Assembly as shown in Figure 24. If necessary, the union at the top of the Eye/Face Wash Piping Assembly can be loosened and re-adjusted to rotate the tubing as required. Place the natural bend in the tubing such that the bend is toward the back of the shower. Reference Figure 26.

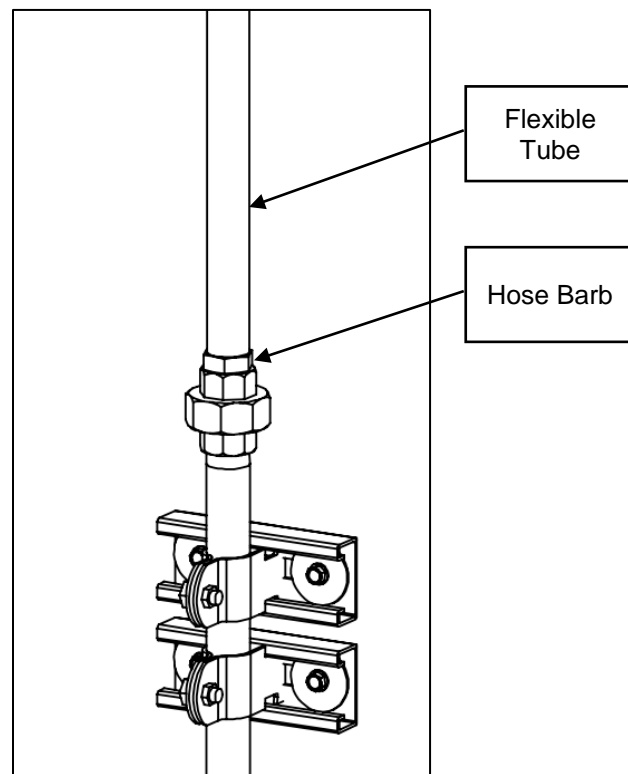


Figure 24. Attaching Flexible Tube

11. Ensure there is no water in the overhead tank and remove the 1/2" NPT plug in the tee from the Shower Piping Assembly directly above the Eye/Face Wash Assembly. Reference Figure 25.
12. Apply potable water safe thread sealant for PVC to the 1/2" NPT x 1/2" Nylon Hose Barb (Item #4) and install the hose barb in the shower piping tee in place of the plug removed in Step 11.
13. Carefully push the loose end of the 1/2" X 36" Flexible Tube (Item #7) over the hose barb in the tee.

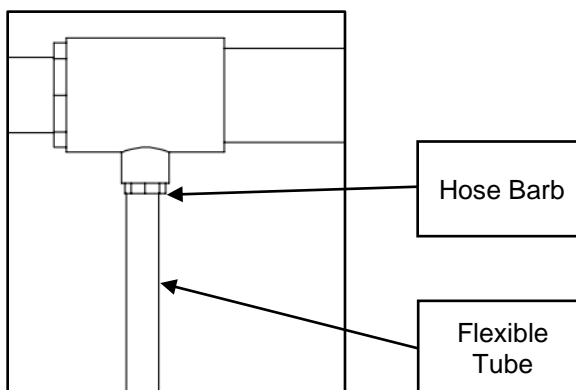


Figure 25. Removing Plug in Tee and Attaching Hose Barb/Flexible Tubing

14. Use two (2) Small Cable Ties (Item #11) to secure ends of the tubing on the barbs. See Figure 26.
15. Use the Large Cable Tie (Item #12) to gently secure the mid-section of the tubing to the upper back cross support straps on the Frame Back Panel of the upper frame. See Figure 26.

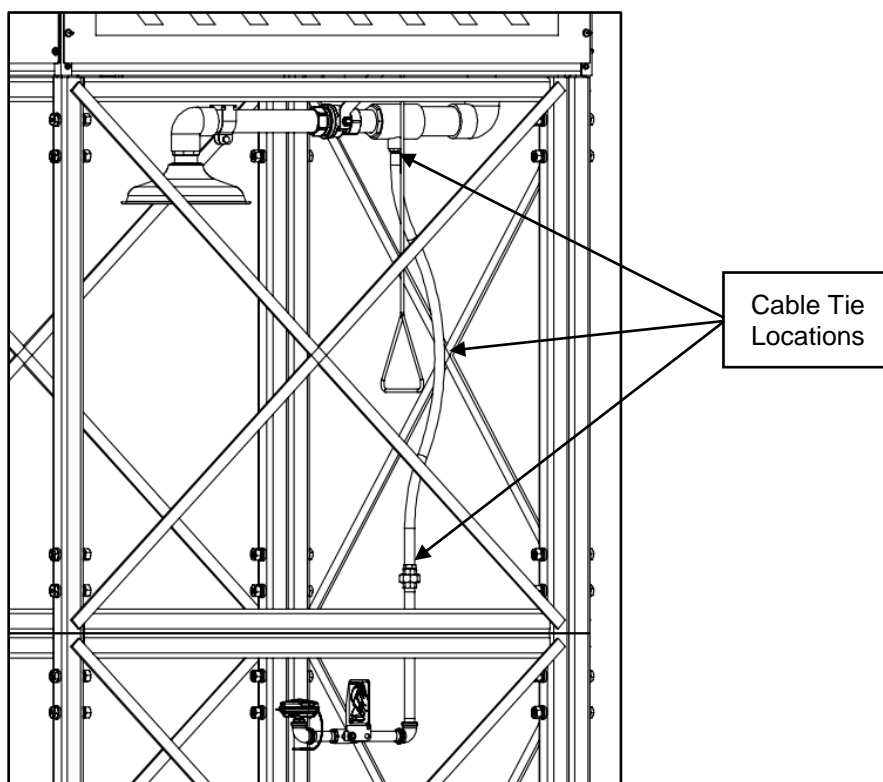


Figure 26. Cable Tie Locations on Eye Wash

OPTIONAL MODEL 9084 CLEANSING STICK (If Applicable)

The Model 9084 Cleansing Stick is shown in Figure 27.

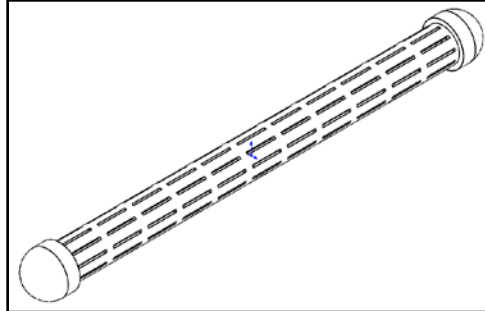


Figure 27. Model 9084 Cleansing Stick

MODEL 9084 INSTALLATION PROCEDURE

1. Remove the threaded cover on the Cleansing Stick access port in the front right corner of the tank as shown in Figure 28. Turn counter-clockwise to remove. Note the small hole through the center of the cover.

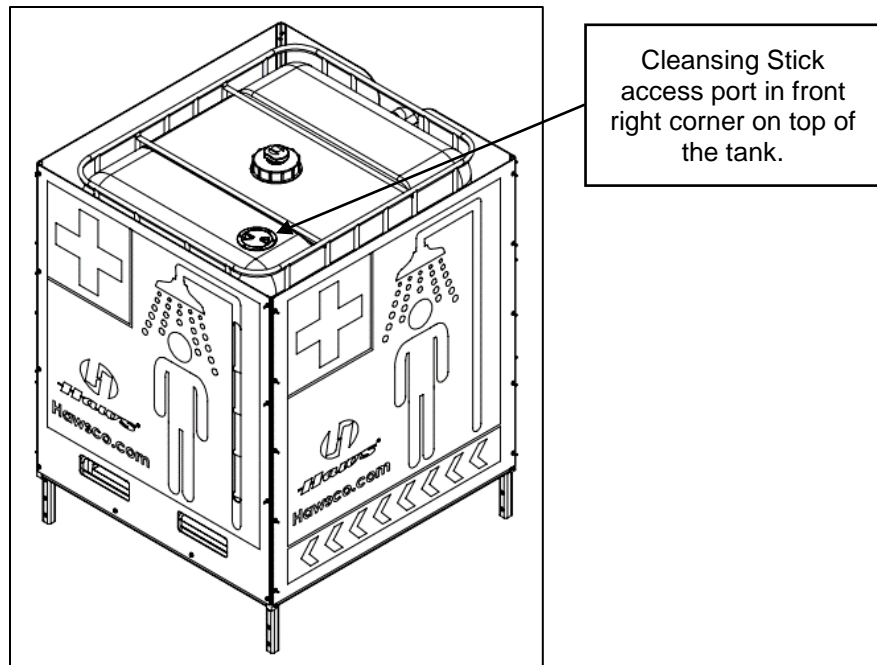


Figure 28. Model 9084 Cleansing Stick Access Port Location

2. The Model 9084 Cleansing Stick comes with a retrieval string connected to one end. Mark the string approximately 17" from the connection point on the stick.

3. From the underside of the cover, pass the end of the Cleansing Stick retrieval string through the small hole in the middle. See Figure 29.

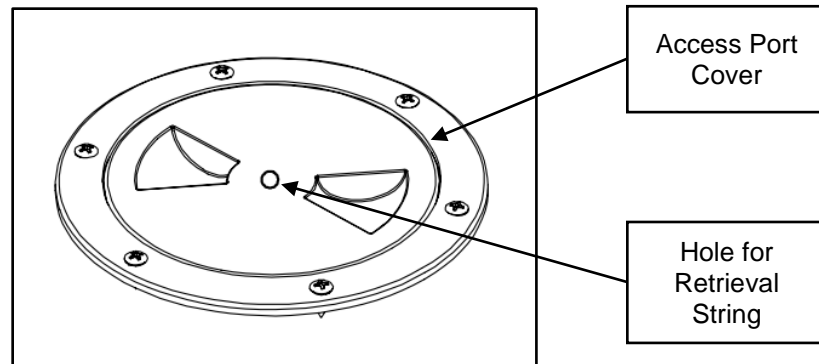


Figure 29. Access Port for Cleaning Stick

4. Tie a knot in the string on the top side of the cover at the 17" mark on the string.
5. Place the Cleansing Stick through the hole into the tank. The end of the Cleansing Stick must rest on the bottom of the tank as shown in Figure 30. This mounting provision prevents the Cleansing Stick from obstructing the tank outlet or automatic refill float valve.

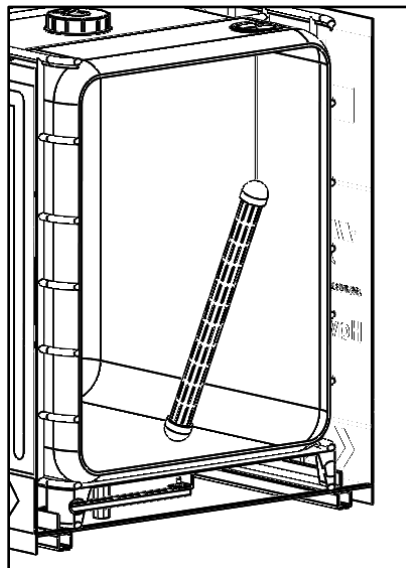


Figure 30. Model 9084 Cleansing Stick Installed

6. Reattach cover and thread closed. Follow the instructions that comes with the Model 9084 Cleansing Stick for maintenance and replacement intervals.

NOTE: For more information, refer to the Model 9084 Cleansing Stick, 2000 Liter O&M manual.

CONNECTING THE MODEL 8740 AUTOMATIC REFILL VALVE TO A POTABLE WATER SOURCE

The Model 8740 is equipped with a 1-1/4" male NPT fitting (Figure 31) on the fill pipe located on the back of the unit. This pipe should be connected to a permanent potable water source. To meet the ANSI Z358.1 standard for flow and duration, the unit requires a minimum fill pressure of 20 PSI and a minimum fill flow rate of 15 GPM for the shower only or 20 GPM for shower and optional Eye/Face Wash combination at the automatic refill connection. Pressure should not exceed 60 PSIG. Use a pressure reducing device if necessary.

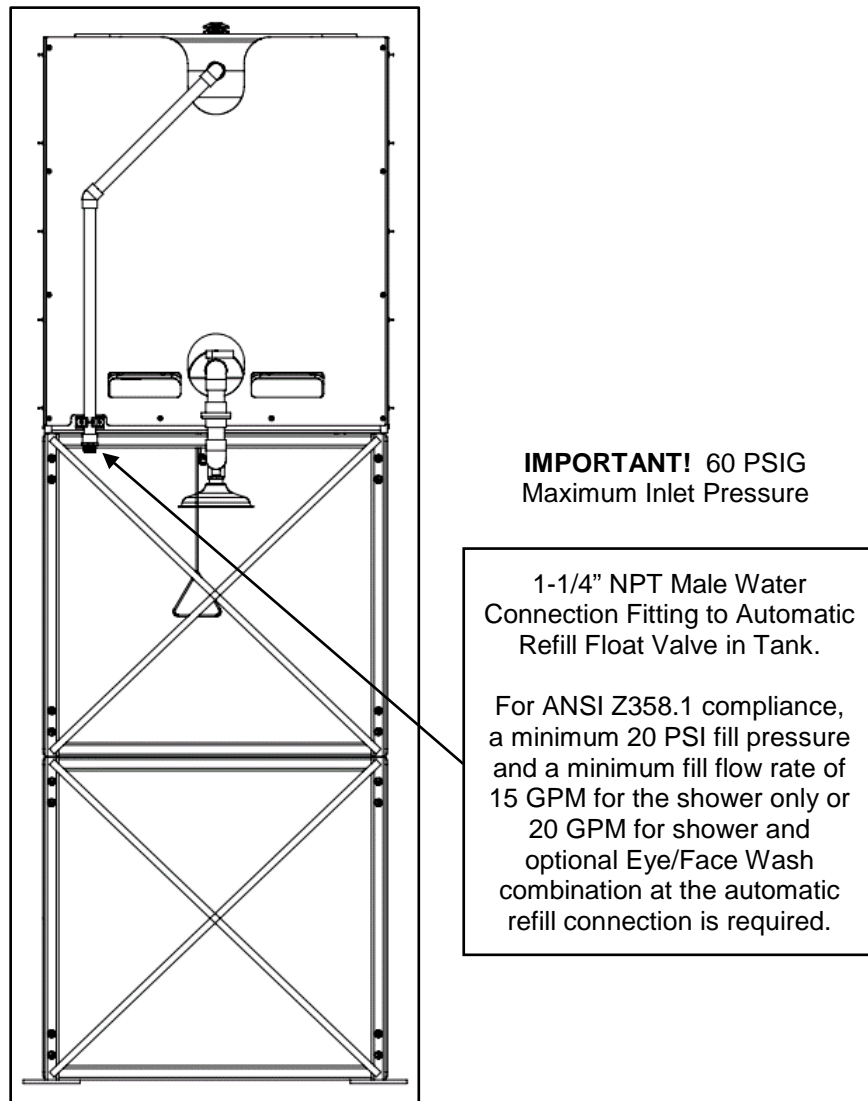


Figure 31. Model 8740 Automatic Refill Port Location on Back of Unit

FILLING THE MODEL 8740 TANK WITH POTABLE WATER

1. Connect a suitable source of potable water to the inlet connection on the back of the unit as shown in Figure 31.

IMPORTANT!! For ANSI Z358.1 compliance, the main water supply to the emergency fixture should be “ON” at all times. Provisions should be made to prevent unauthorized shutoff. Refer to your facility’s lockout tagout procedure.

2. Ensure the shower (and Eye/Face Wash if equipped) valves are closed.
3. Turn on the water source and monitor the water level in the tank via the slot in the front tank panel.
4. If little or no water enters the tank, confirm the shipping protection strap on the float valve was properly removed during assembly.
5. Allow the tank to fill. The float valve in the tank will automatically shut off the flow as the water level approaches the top of the tank. The tank should not fill completely to the top or exit the vent on the top of the tank.
6. Check the inlet piping, tank, and shower piping for leaks and address as required.
7. If the optional Eye/Face Wash assembly has been installed, check for leakage in the hose and piping to the unit before and after activating the Eye/Face Wash.

TESTING THE INSTALLATION

1. With the tank full of water, pull the shower activation handle. It is recommended to stand behind the unit to avoid drenching of the shower.
2. Confirm the handle pulls smoothly, but firmly both on and off.
3. Confirm the shower flows freely and shuts off completely. If water does not flow or flow freely, confirm the tank ball valve at the tank outlet is fully open (handle parallel to pipe).

IMPORTANT!! For ANSI Z358.1 compliance, the main water supply to the emergency fixture should be “ON” at all times. Provisions should be made to prevent unauthorized shutoff. Refer to your facility’s lockout tagout procedure.

4. If the optional Eye/Face Wash assembly has been installed, push the Eye/Face Wash activation flag.
5. Confirm the Eye/Face Wash assembly actuation flag moves smoothly on and off.
6. Confirm the Eye/Face Wash flows freely and shuts off completely.
7. Confirm the automatic refill functions properly and that the tank is refilled.

ANSI Z358.1 TESTING

ANSI Z358.1 Standard requires this self-contained emergency shower be tested at least once annually. Refer to the latest version of the standard to test this unit for flow rate, duration, and temperature.

MAINTENANCE

The Haws Model 8740 Emergency Shower is a compliant unit that requires basic mechanical maintenance. The primary maintenance requirement for this unit is maintaining water quality. Regular testing and replacement of water will aid in maintaining appropriate water quality. Take proper precautions to help prevent the growth of potentially harmful bacteria in eyewash tanks. We recommend one of the following procedures:

Procedure 1: Use suitable Sterile Antimicrobial Preservative Model 9082 to help prevent the growth of bacteria in tank (use per the manufacturer's instructions for 300 gallons of water). Tank should be drained, flushed and refilled with clean potable water and Sterile Antimicrobial Preservative Model 9082 as directed by the preservative's manufacturer.

Procedure 2: Use Cleansing Stick Model 9084 to help prevent the growth of bacteria in tank. Tank should be drained, flushed and refilled with clean potable water and Cleansing Stick Model 9084 as directed by the manufacturer.

Procedure 3: Drain, flush and refill portable units with clean potable water at least once every week. Thoroughly cleanse tank at least once every month.

NOTE: Acanthamoeba survive mild chlorination and are commonly found in tap water. Sterile Antimicrobial Preservative Model 9082 will prevent the growth of Acanthamoeba. Hot water, 158° F (70° C) or hotter will destroy Acanthamoeba but must be allowed to cool prior to use in Eye/Face Wash units.

IMPORTANT!! For ANSI Z358.1 compliance, the main water supply to the emergency fixture should be "ON" at all times. Provisions should be made to prevent unauthorized shutoff. Refer to your facility's lockout tagout procedure.

LIMITED WARRANTY

HAWS warrants that this specific product is guaranteed against defective material or poor workmanship for a period of **one year from date of shipment**. HAWS liability under this warranty shall be discharged by furnishing without charge F.O.B. HAWS Factory any goods, or part thereof, which shall appear to the Company upon inspection to be of defective material or not of first class workmanship, provided that claim is made in writing to Haws within a reasonable period after receipt of the product. Where claims for defects are made, the defective part or parts shall be delivered to the Company, prepaid, for inspection. HAWS will not be liable for the cost of repairs, alterations or replacements, or for any expense connected therewith made by the owner or his agents, except upon written authority from HAWS, Sparks, Nevada. HAWS will not be liable for any damages caused by defective materials or poor workmanship, except for replacements, as provided above. Buyer agrees that Haws has made no other warranties either expressed or implied in addition to those above stated, except that of title with respect to any of the products or equipment sold hereunder and that HAWS shall not be liable for general, special, or consequential damages claimed to arise under the contract of sale.

The emergency equipment manufactured by HAWS is warranted to function if installation and maintenance instructions provided are adhered to. The units also must be used for the purpose for which they were intended. This product is intended to supplement first-aid treatment. Due to widely varying conditions, Haws cannot guarantee that the use of this emergency equipment will prevent serious injury or the aggravation of existing or prior injuries.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED ARE AUTHORIZED, PROVIDED OR GIVEN BY HAWS.

SHOULD YOU EXPERIENCE DIFFICULTY WITH THE INSTALLATION OF THIS MODEL PLEASE CALL:

HAWS SERVICES: 1-800-766-5612

FOR CUSTOMER SERVICE: 1-888-640-4297

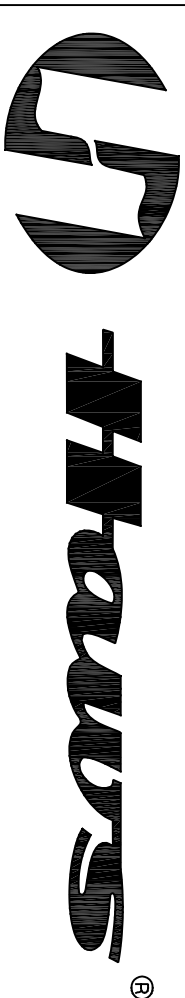
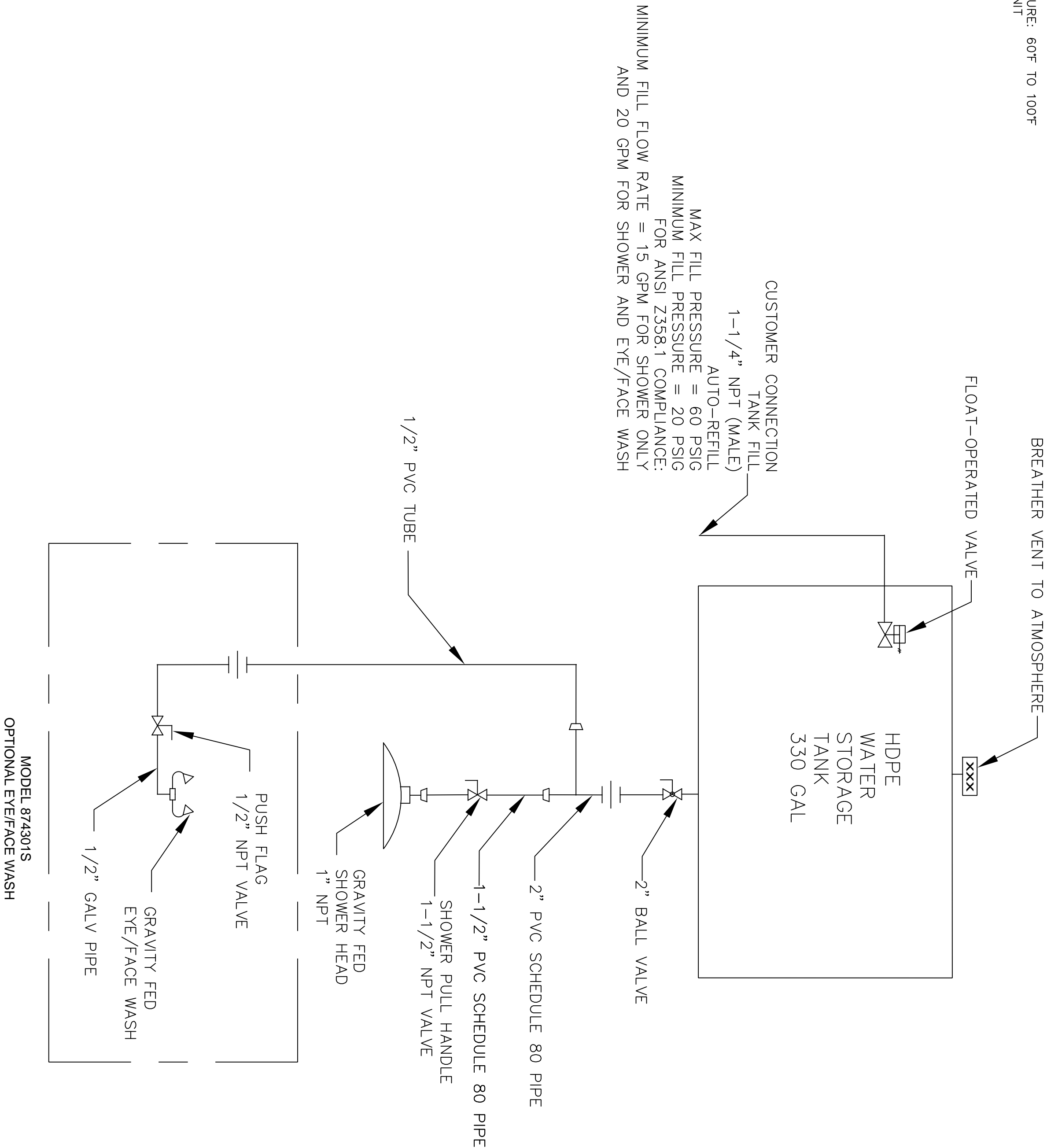
For more information on Haws products, see our website: www.hawSCO.com

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NOTES:
SELF-CONTAINED GRAVITY FED INDOOR EMERGENCY SHOWER
AVAILABLE WITH MODEL 874301S EYE/FACE WASH SHOWN

1. AMBIENT TEMPERATURE: 60°F TO 100°F
2. RATING: INDOOR UNIT

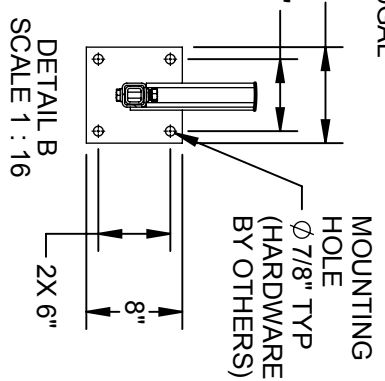
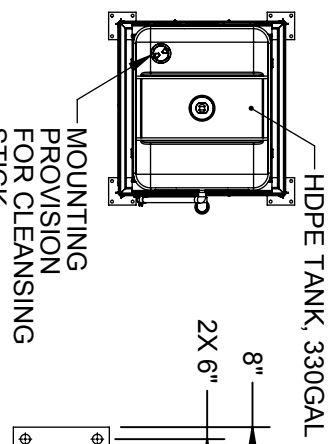
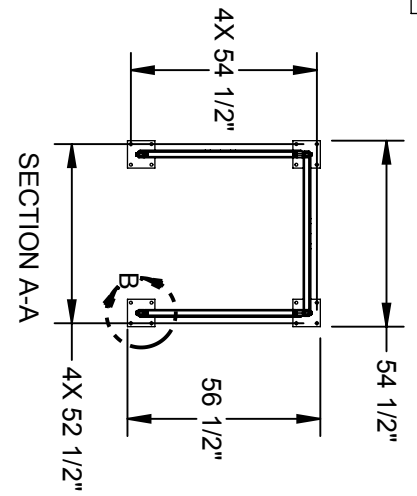


1455 KLEPPE LANE
SPARKS, NEVADA 89431
(775) 359-4712 FAX (775) 359-7424
E-MAIL: HAWS@HAWS.CO.COM
WEBSITE: WWW.HAWS.CO.COM

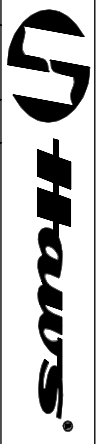
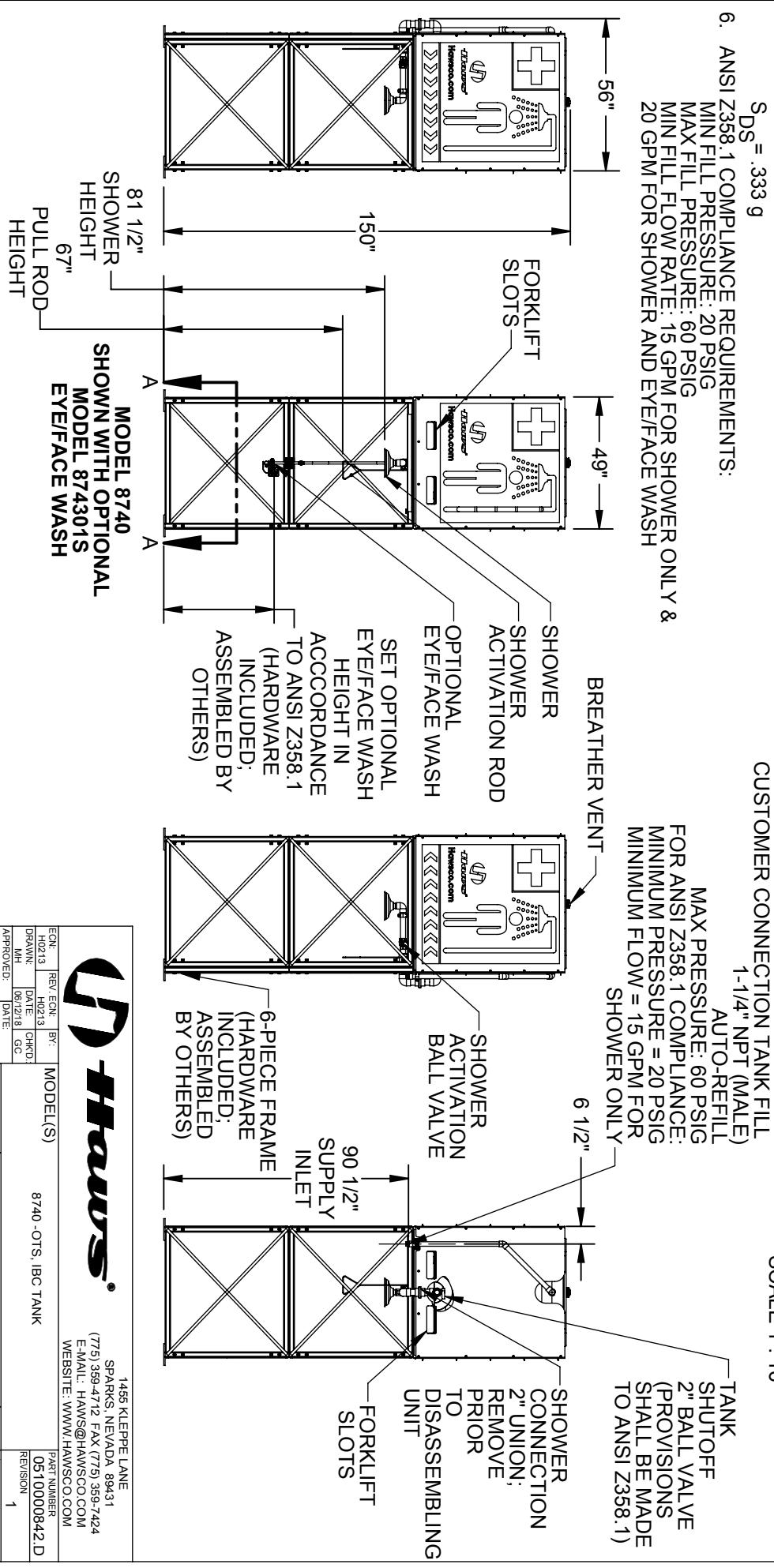
ECN NO. H0213	REVISED PER BY: ECNH0213	MODEL(S)	MODEL 8740	PART NUMBER	0510000842
DRAWN: MH	DATE: 7/1/18	CHK'D: GC	OVERHEAD TANK SHOWER	REVISION	1
APPROVED: MJ	DATE: 10/09/18	SCALE: 1	DRAWING TYPE: P&ID	SIZE: A	SHEET 1 OF 1

NOTES:

1. DIMENSIONS IN INCHES
2. ALL TOLERANCES: $\pm 1/2"$
3. MATERIAL:
FRAME: GALVANIZED STEEL
TANK: HDPE
PIPE & FITTINGS: PVC; SCH 80.
VALVE: BRONZE
4. ESTIMATED WEIGHT:
DRY: 975 LBS
WET: 3450 LBS
5. FRAME IS IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) 2012 EARTHQUAKE DESIGN
RISK CATEGORY: II
SPECTRAL RESPONSE COEFFICIENT:
S_{DS} = .333 g
6. ANSI Z358.1 COMPLIANCE REQUIREMENTS:
MIN FILL PRESSURE: 20 PSIG
MAX FILL PRESSURE: 60 PSIG
MIN FILL FLOW RATE: 15 GPM FOR SHOWER ONLY & 20 GPM FOR SHOWER AND EYE/FACE WASH



REFER TO MODEL 8740 MANUAL FOR DETAILED EYE-FACEWASH ASSEMBLY AND INSTALLATION INSTRUCTIONS



1455 KLEPPE LANE
SPARKS, NEVADA 89431
(775) 359-4712 FAX (775) 359-7424
E-MAIL: HAWS@HAWS.CO.COM
WEBSITE: WWW.HAWS.CO.COM

ECN:	REV/ECN:	BY:	MODEL(S)
H0213	H0213		8740 - OTS, IBC TANK
DRAWN:	DATE:	CHK'D:	
APPROVED:	DATE:	DATE:	
SCALE:	1:56	DRAWING TYPE:	INSTALLATION
SIZE:	A	SHEET:	1 OF 1
PART NUMBER:	0510000842.D	REVISION:	1