

EMERGENCY TANK SHOWER AND EYE WASH

Assembly | Commissioning | Maintenance

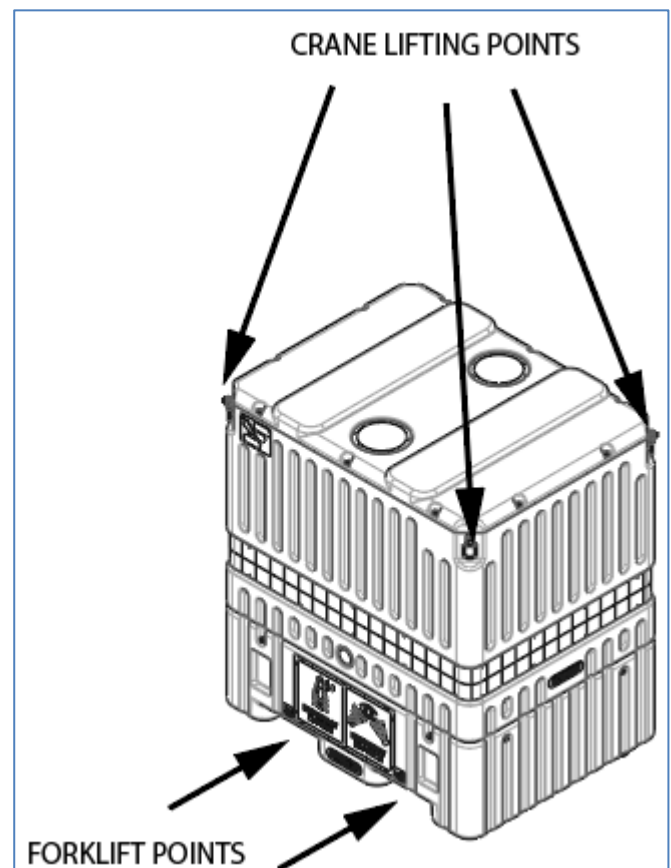


ET1400FBP

HANDLING OF THE TANK ASSEMBLY:

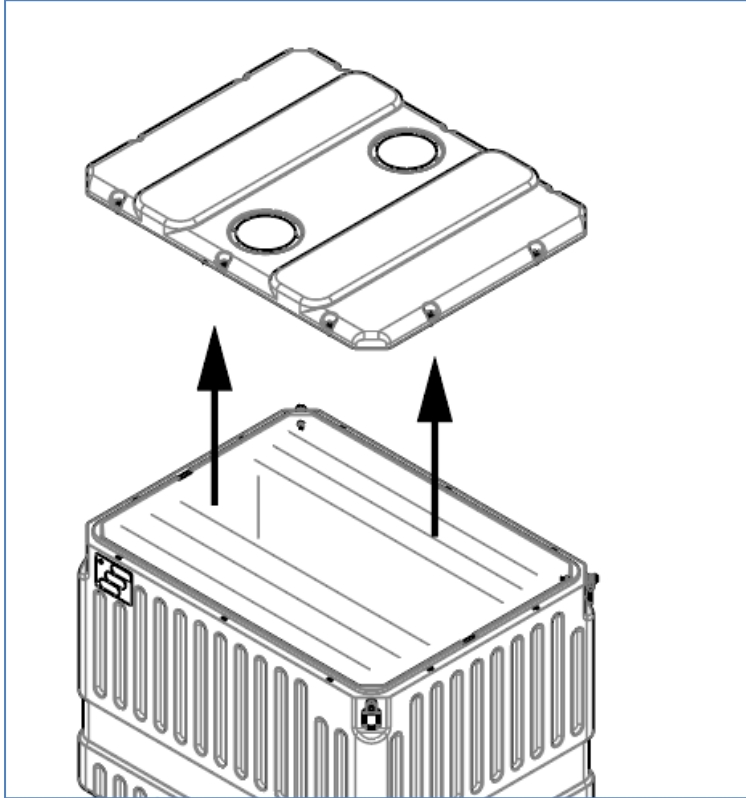
By forklift - use the forklift points at the bottom of tank

By crane - lift using crane lifting points

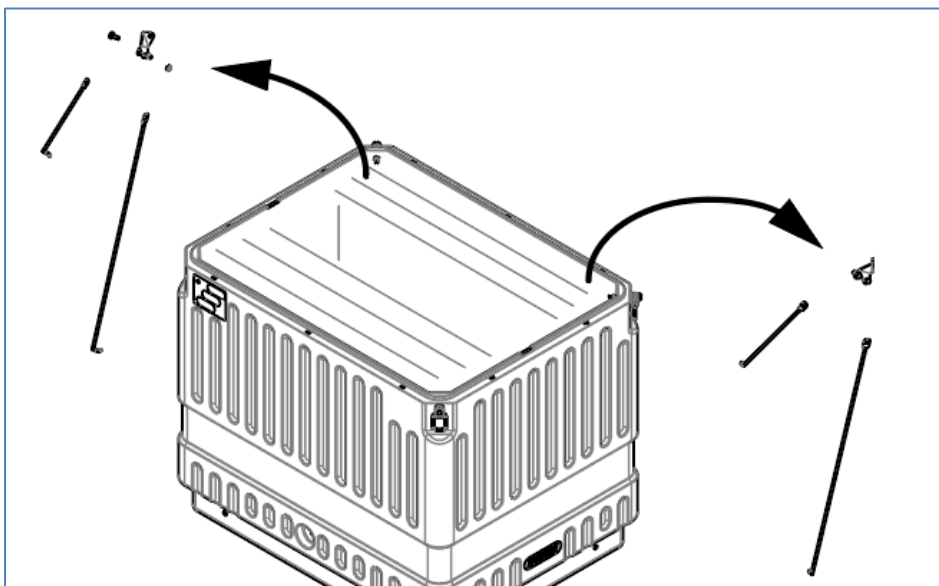


UNPACKING THE TANKS COMPONENTS

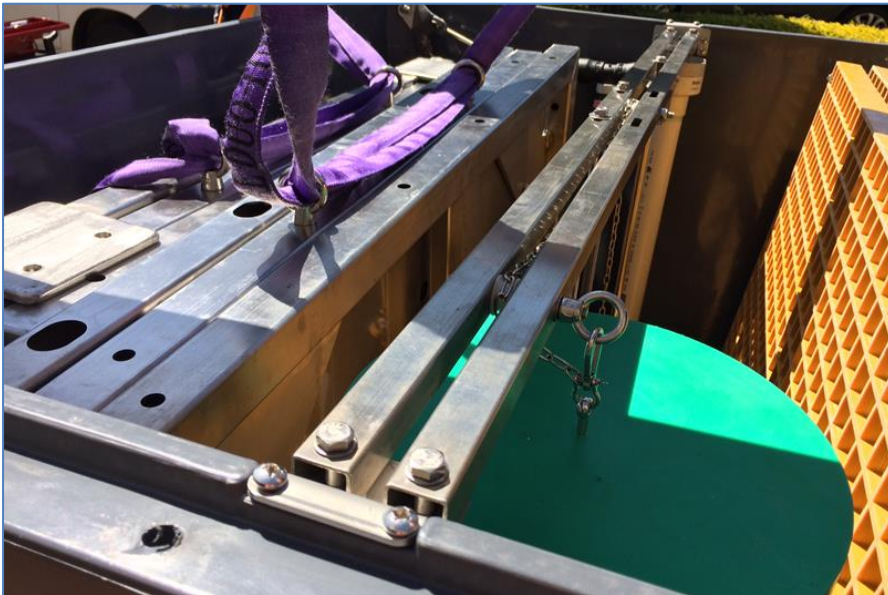
1. Remove the tank lid. Lid is secured with M12 bolts. Use a M19 socket (or equivalent) to unscrew the bolts.
Keep the lid and bolts at hand.



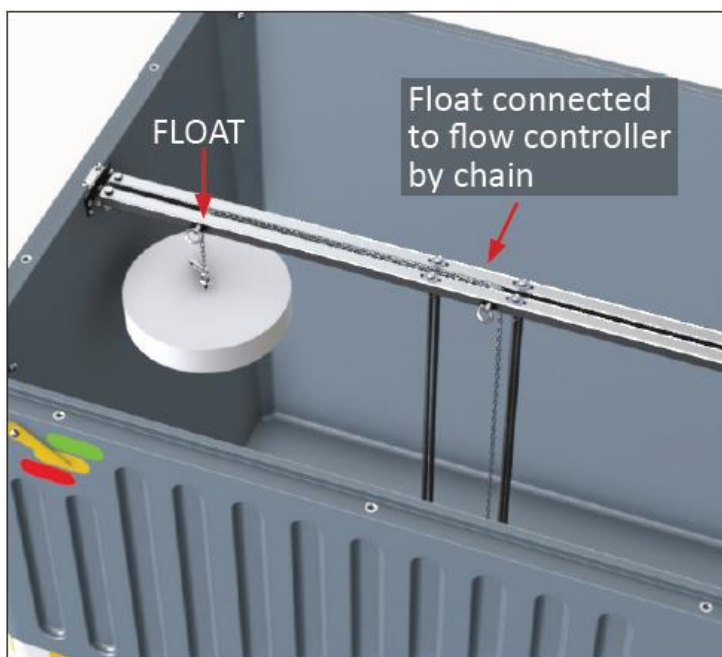
2. Remove the packing rods that are holding the frames, by unscrewing the bolts. Remove the rods and bolts out completely, and keep them aside.



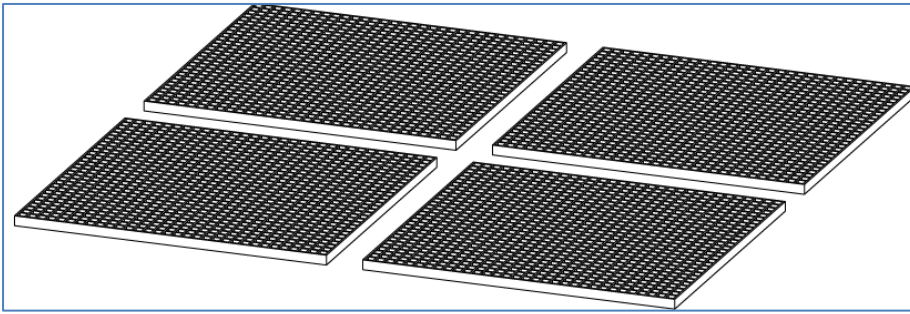
3. The Flat Pack frame is located inside the tank for transportation, ready to be lifted out of the tank via the slings attached to the frames, by using a forklift or a crane.
Feed the supplied slings through the 4 eye bolts attached to the frames, then lift the frames out of the tank with a forklift or crane, taking care to not damage the tank internals while doing so.



4. The 'float' has been fixed in place with a carabiner onto the eyelet loop so that it is secure during transportation. When removing the carabiner for assembly, please be careful to lower the float slowly until float and chain come to a stop; as it can cause damage to the flow controller and/or the float. Check the chain has not become entangled during transportation.

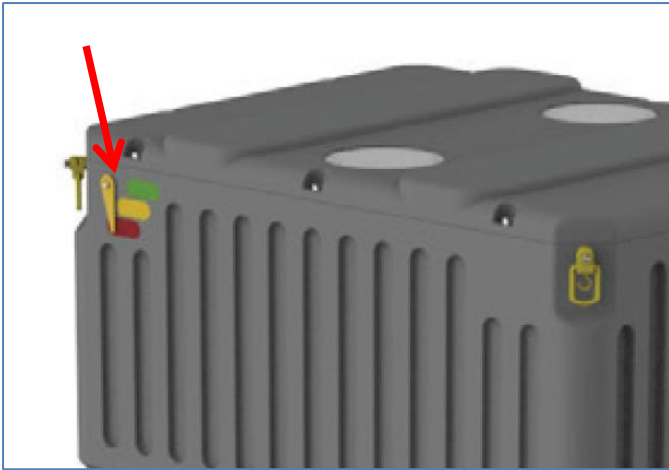


5. Take out yellow FRP grating mats out of the tank, each at a time.



6. Loosen the nut holding the water level float, rotate the float 90° and gently lower the float so it is at the bottom position. Then, re-tighten the nuts to lock it in position. (The water level indicator on the outside should indicate empty.)



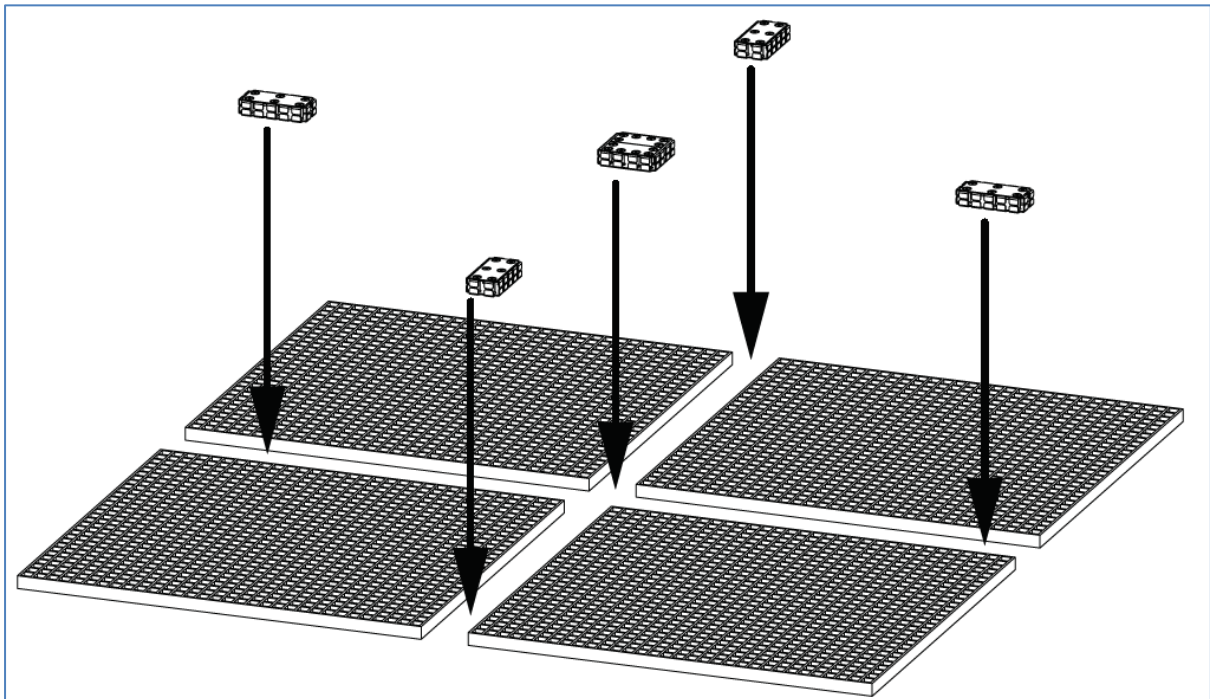


ASSEMBLING RELOCATABLE FOOT BASE

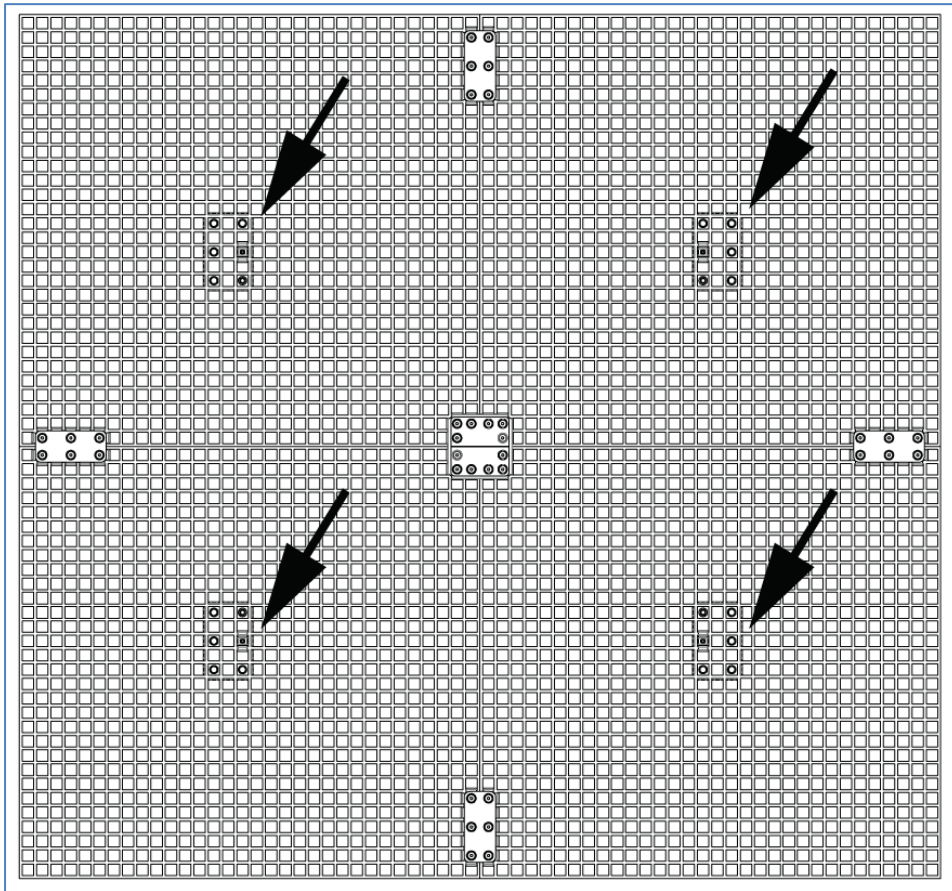
7. Determine location of the tank shower to be installed.
Place the Foot Base onto a flat, level surface.

The ground surface must be well compacted and have a maximum slope of 1% when installed on subgrade.

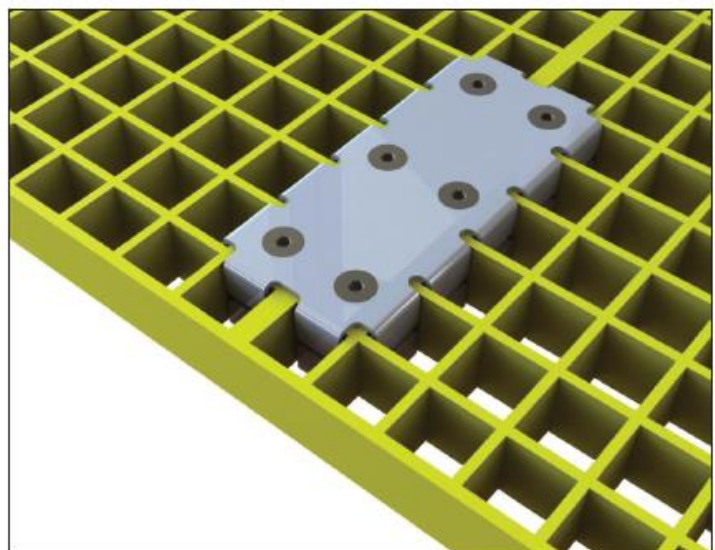
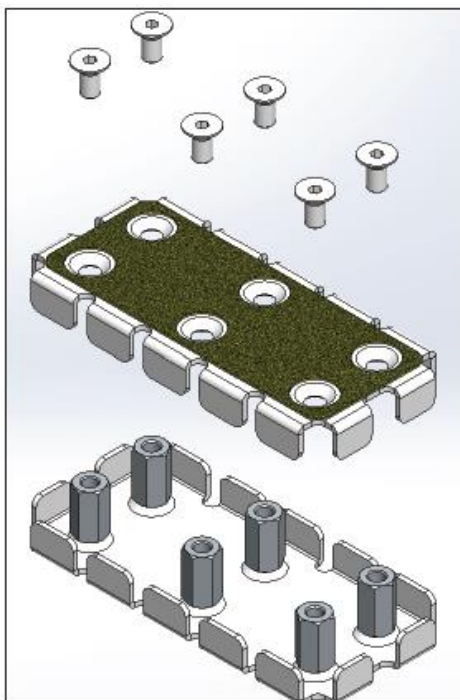
8. The Foot Base is supplied as shown, with four FRP Grating Mats, and five Clamping Plate Sets.



9. Position the Grating Mats as shown, taking note of the orientation of the pre-installed Mounting Plates.



10. Join the Grating Mats by using Clamping Plate Sets as shown. Apply Anti-Seize compound to bolt thread before fitting to the clamping plates. Screw the bolts in and tighten.



ASSEMBLING THE FRAME

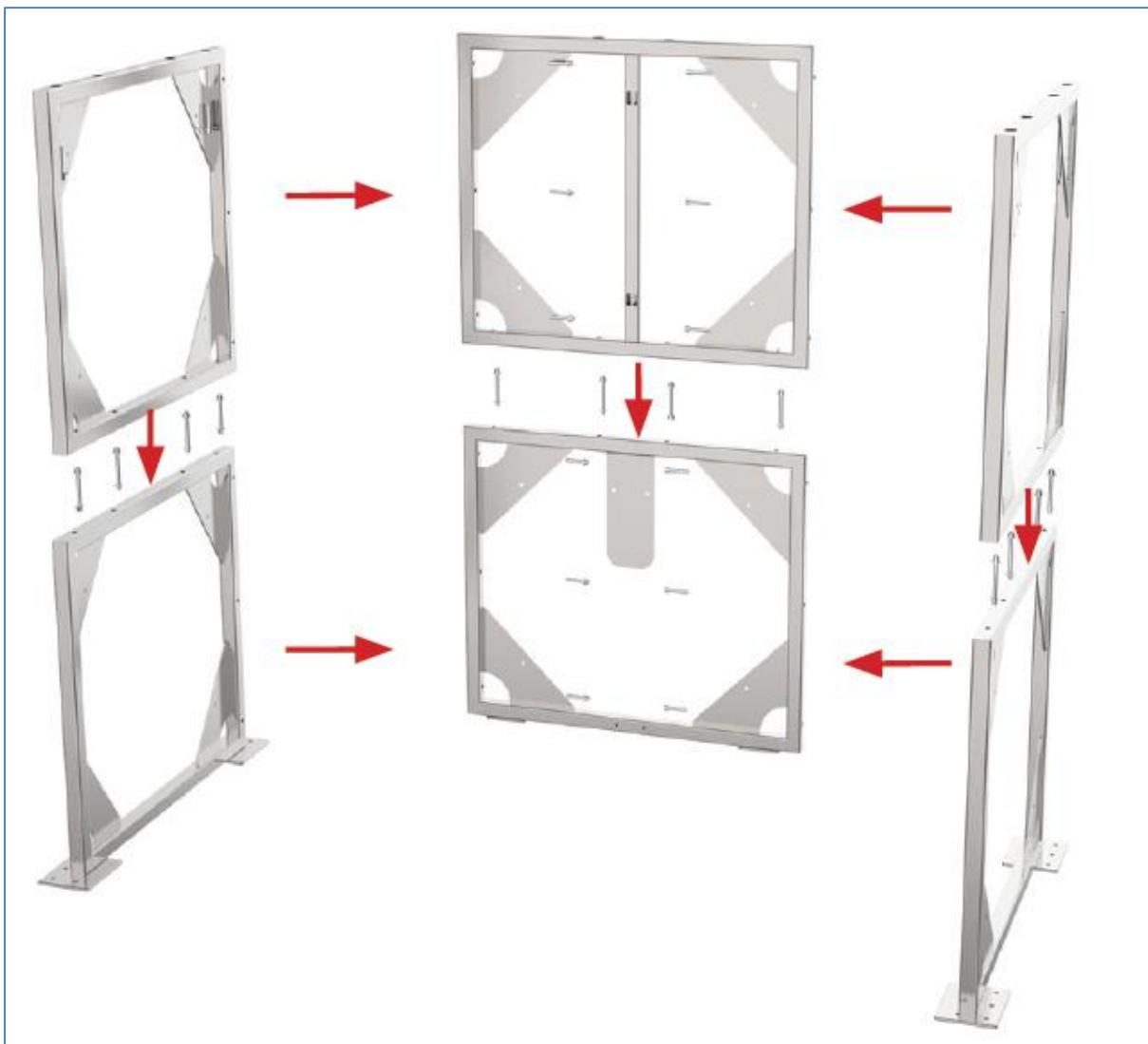
11. The Flat Pack frame is a frame that comes in 6 parts, and will need to be assembled on site before commencing.

Each frame component is secured by the fixing bolts supplied.

Use 120mm long bolts for vertical fixings and 70mm long bolts for horizontal fixings, with smaller M12 washers and nuts.

Apply Anti-Seize on all bolts thread connections. Tighten all bolts firmly but do not over-tighten.

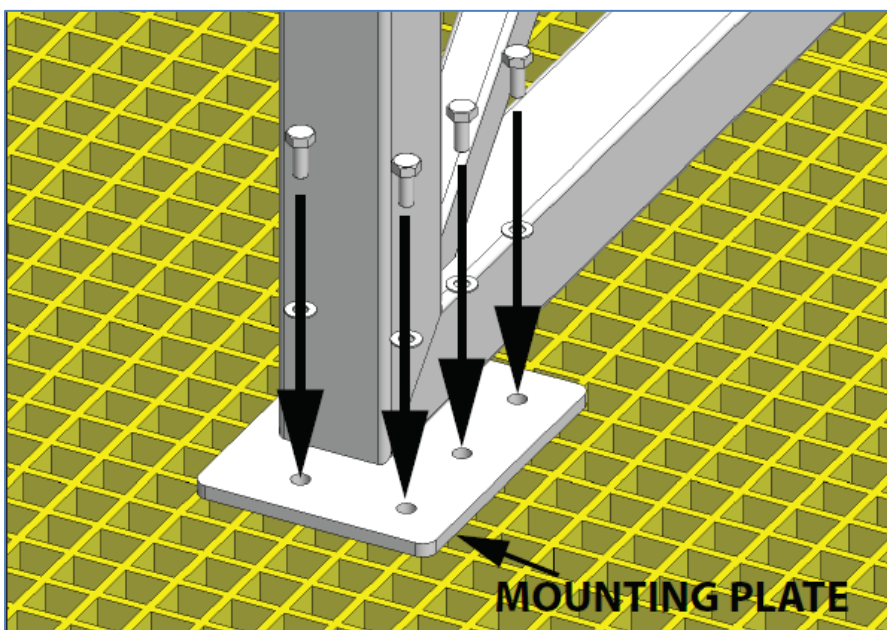
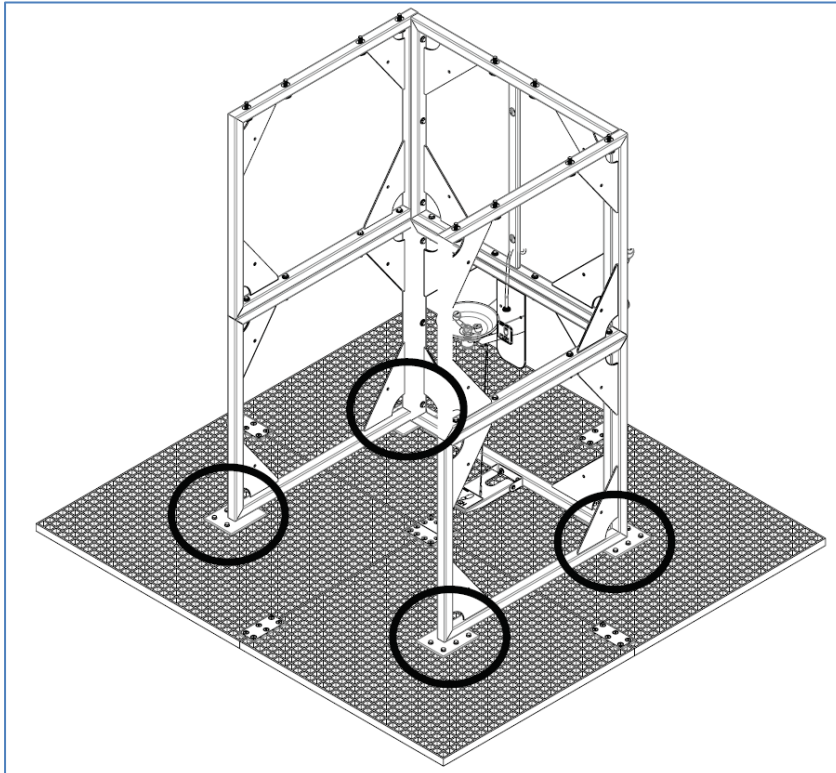
Assemble the bottom half on the foot base grating mats first. Remove the 4 eyebolts used for lifting and keep them aside.



12. Secure the tank shower frame onto the foot base.

All four corners of the Frame have Mounting Plates to allow the Frame to be bolted to the Foot Base. Attach the Bolts and Washers into the corresponding Mounting Plates already on the Foot Base, and fix the Frame onto Foot Base assembly. Use Anti-Seize compound on all bolts to allow for any disassembly and relocation of the shower unit in future.

Install ramps up to the Foot Base on all sides, to reduce the risk of trip hazard.



TANK INSTALLATION

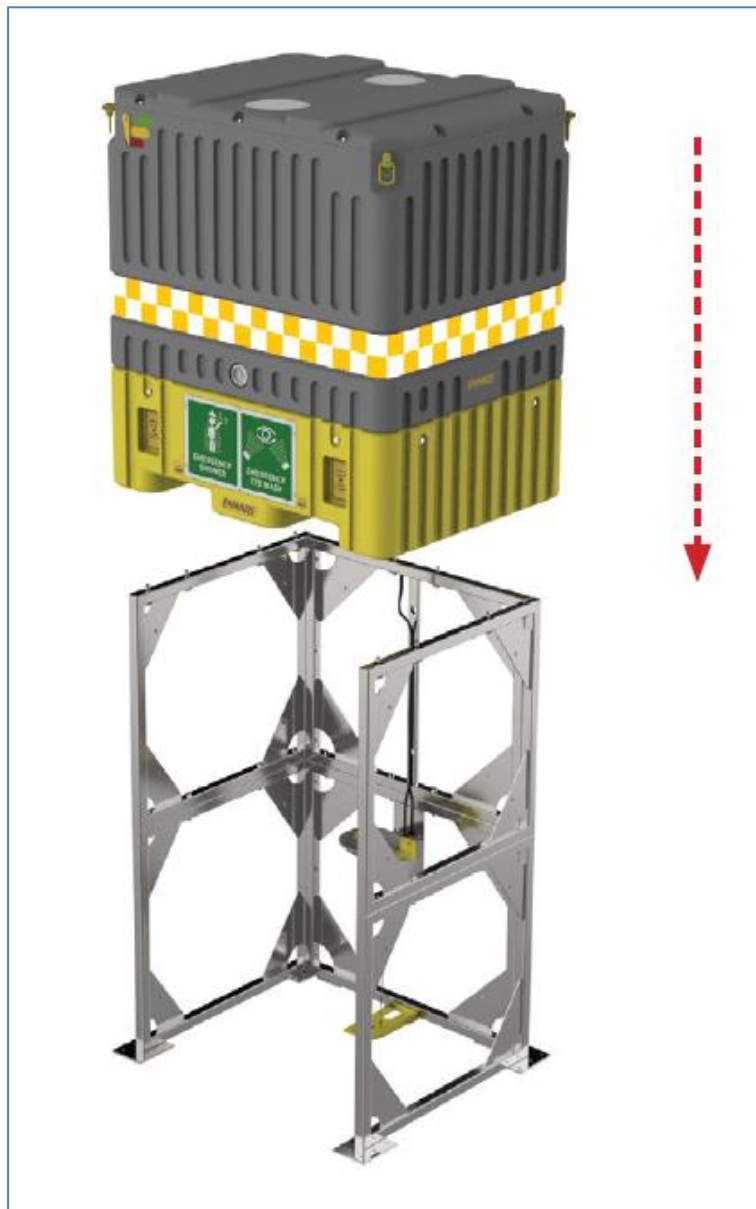
13. Check that the tank is not filled with water before installing tank to the frame. Take all other loose components out of the box, including the coil of hose for the eye wash.

Reinstall tank lid, and fix with supplied bolts.

Lift the tank onto the frame using a forklift or a crane. When lifting using a sling, use the four lifting lugs located on the top corners of the tank.

Take care to align the bolt mounting holes on the frame with the matching threaded holes on the bottom of the tank assembly.

IMPORTANT: Tank is ONLY to be lifted when completely empty of water.



14. Use 80mm bolts (x10) and two larger washers (Acetyl and stainless steel supplied) for each bolt, to fix the tank in place. Acetyl (plastic) washer should be placed closest to the frame, so that the Acetyl washer is sandwiched between the frame and stainless steel washer.

Apply Anti-Seize onto bolt thread before tightening. Tighten bolts firmly but do not over-tighten.



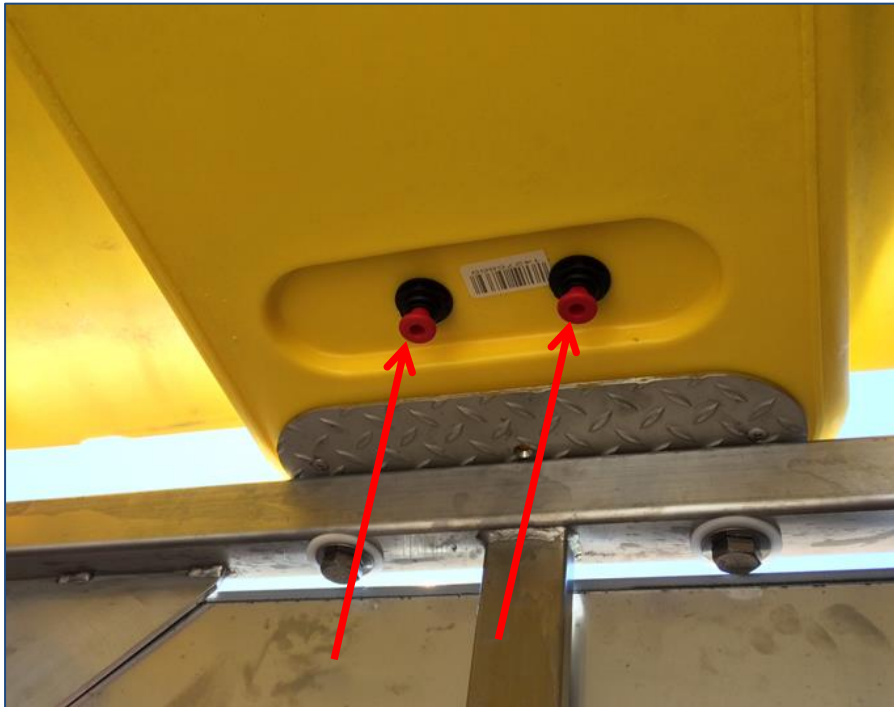
15. Fit eye wash assembly onto frame. Use the nuts and bolts supplied to fix the eye wash frame onto the tank shower frame.



16. Find the coil of eyewash hose supplied. Uncoil the hose and feed the hose through the top back frame as shown. This model requires 2 lengths of hoses for flow and return lines, so cut the coil to make two lengths of hoses and feed through the hole in the frame.



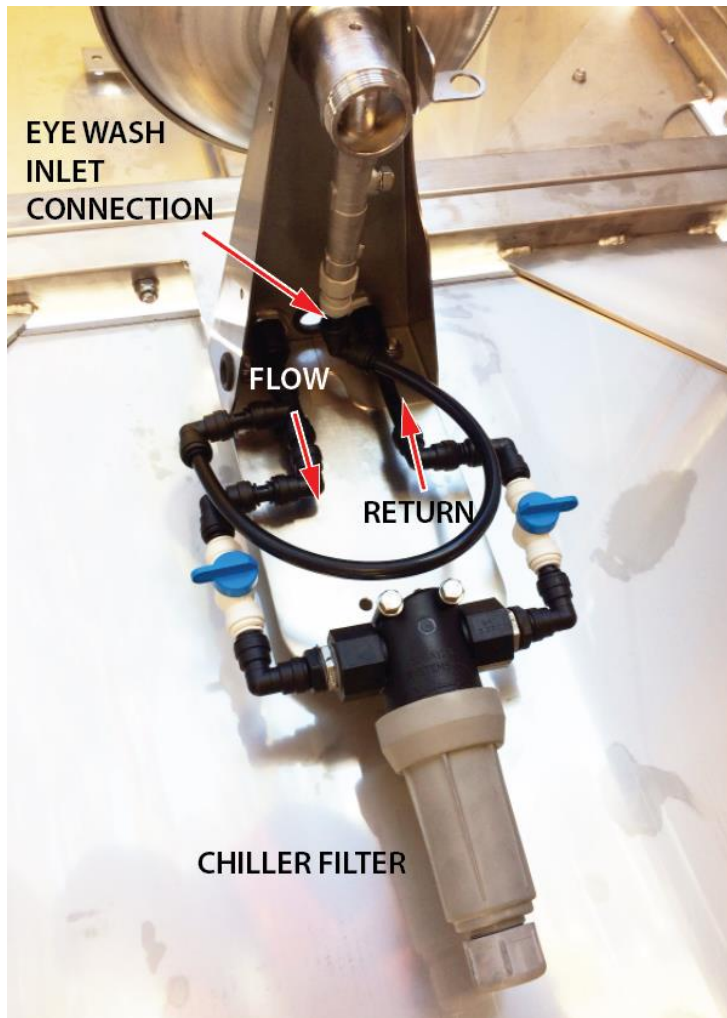
17. Insert the eyewash hoses into the bulk head fitting, and push until it bottoms. (The fitting is a push-fit connector and does not require further tightening.)



18. If required, cut the tube to adjust the length, then insert the other end of the hoses into the push-fit connectors on the eyewash, and push until they bottom out.



19. Install the chiller filter for the eye wash as shown. Ensure the supply to the eye wash is connected to the flow line, before the chiller filter. Secure the chiller filter to frame using the bolts and nuts supplied.



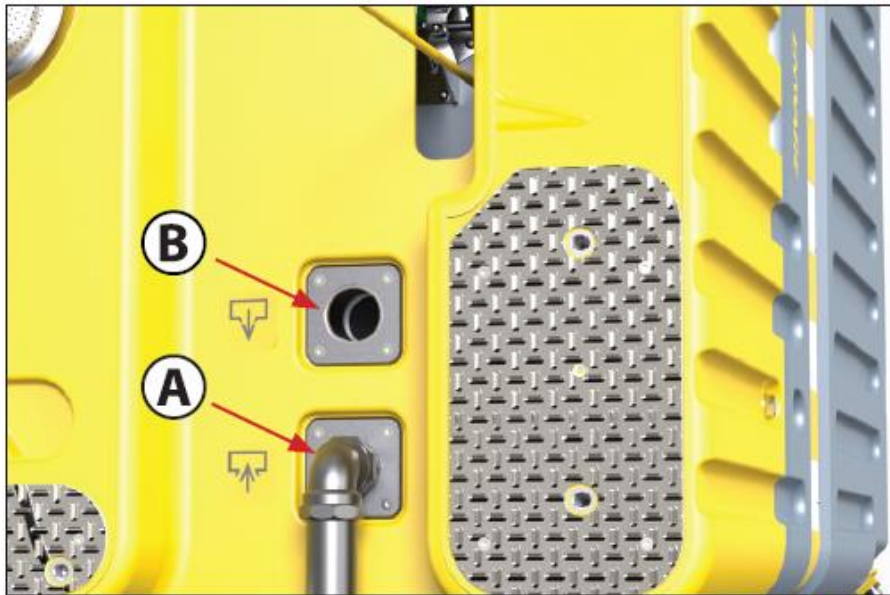
20. Locate the inlet fill assembly and fit to the Inlet connection of the tank.

The union connection will have to be disassembled to screw the top elbow in. Use appropriate thread sealing tape, to seal the inlet connection.

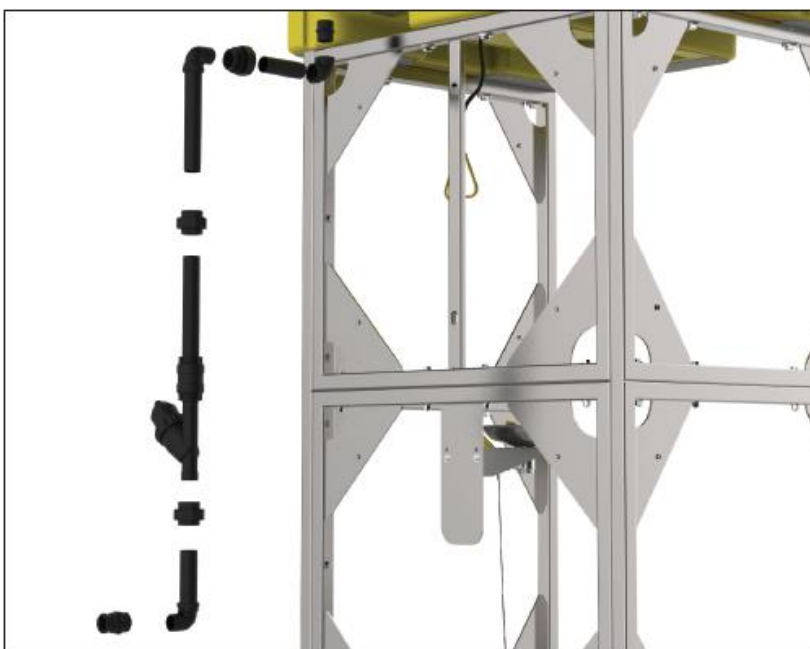
NOTE:

A - Inlet connection for inlet fill assembly is noted by an arrow directed into tank.

B - Overflow outlet is noted by an arrow out of tank.



Assemble union connections for inlet fill assembly, then secure the inlet fill assembly onto tank frame using the support bracket supplied. The frame has pre-drilled holes to accommodate the 2x bracket fixing screws (M6 head cap screws). Place rubber clamps around the plastic pipe to secure the inlet fill assembly onto bracket.



21. Reach inside bottom access of tank, and pull the activation valve arm down. Use appropriate step ladder to do so. Attach shower activation pull handle to the activation valve arm using the nut and bolt supplied.



22. Attach Junction Box to frame, using the nuts and bolts supplied.



23. Attach the connector onto the connection box on the tank.

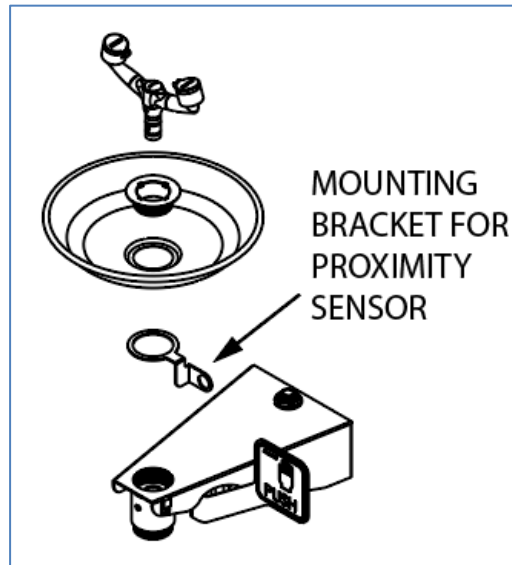


Secure the conduit to frame using the clips supplied. The frame has pre-drilled holes to accommodate clips.

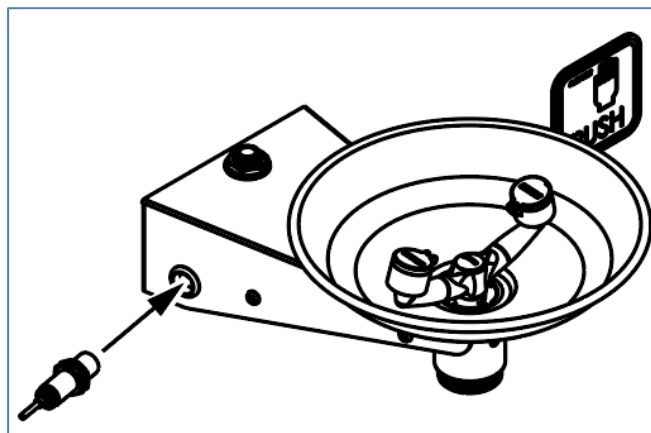


24. Install proximity sensor onto the eye wash:

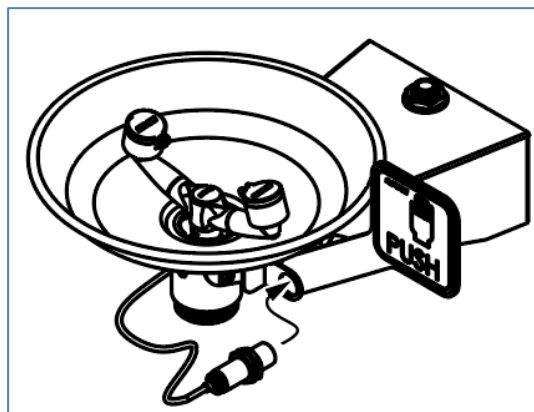
- a. Ensure the mounting bracket for the proximity sensor has been pre-installed correctly.



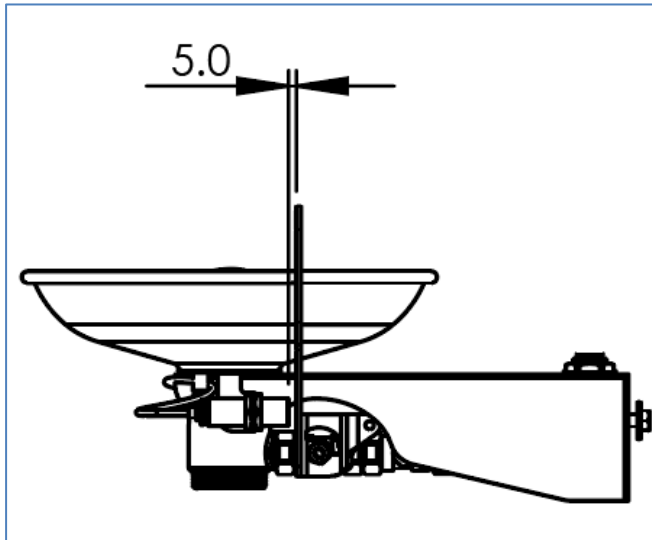
- b. Proximity sensor has been pre-wired to the junction box. Remove the nuts and feed the proximity sensor through the grommet hole on the back panel, then proceed to feed the sensor through the eyewash frame. The grommet can be removed to make this easier if required and then reinstalled.



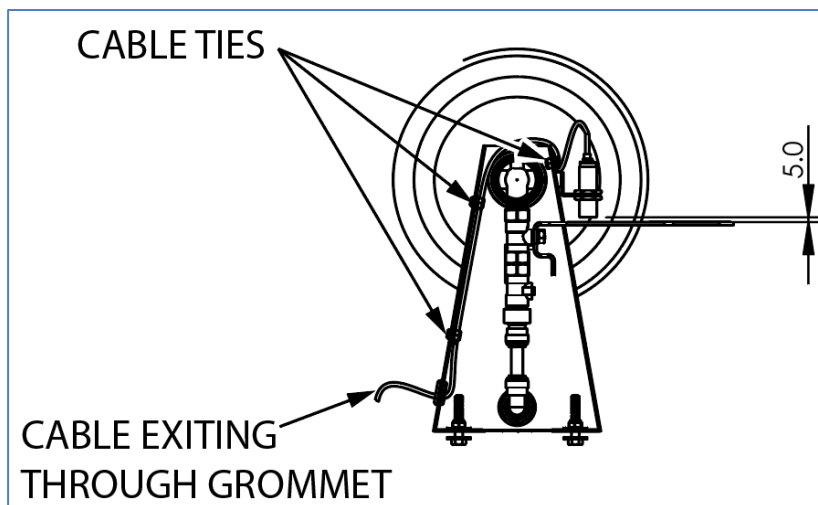
- c. Proximity sensor can now be installed onto the mounting bracket.



- d. The front face of proximity sensor must be installed within 5mm of the eyewash push activation handle to work correctly.



- e. Position the cabling neatly and secure in place by using the 3x ss316 cable ties to connect onto the 3x pre-installed cable tie mounts. The cabling should not be positioned in a way that would allow it to interfere with the activation push handle during use.



25. Store the slings, eye bolts and packing rods (from steps 2 & 3) inside the void in the bottom section of the tank (not inside the main tank.) To access the void, take off the front sign by loosening the screws.

INSTALLATION IS NOW COMPLETED AND THE TANK SHOWER IS READY TO BE COMMISSIONED.

commissioning

1. Attach water source to the 40mm inlet camlock fitting **(SEE IMAGE 15)**.

Use only clean water to fill the tank.

2. Turn on water supply and commence filling.



IMAGE 15

3. Take note of the water level indicator **(SEE IMAGE 16)**. When it reaches the yellow level, activate the shower and eye wash to flush the line and to test operation.

When activating the eye wash for the first time, take the aerators out of eye wash outlet to clear the line of any debris.

Check for any leaks in joints and connections.

4. Turn shower and eye wash off, and continue to fill. Replace aerators onto the eye wash outlet.
5. Once water starts to flow out from the internal overflow, turn off the infeed water and disconnect from the 40mm camlock fitting. **(SEE IMAGE 15)**

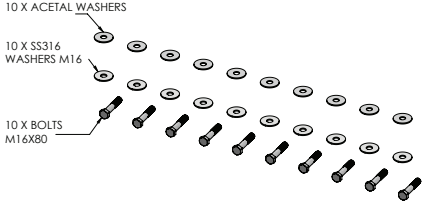
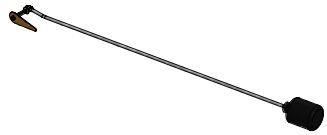
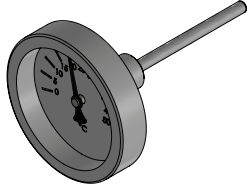
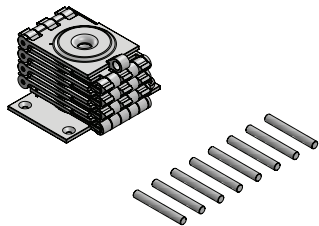
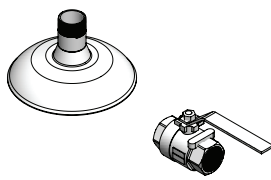


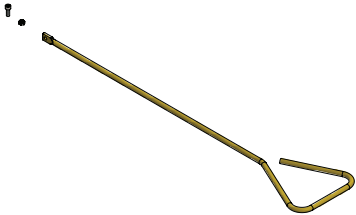
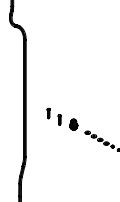
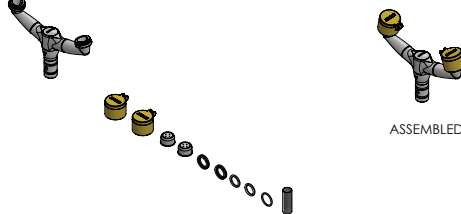
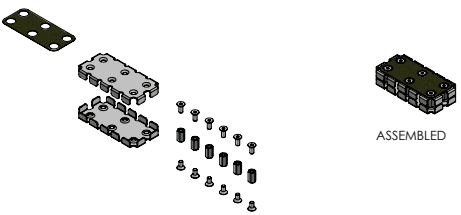
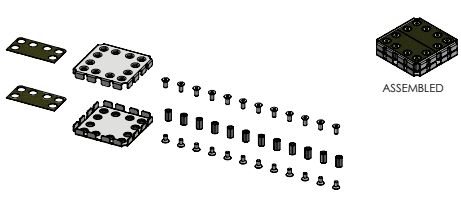
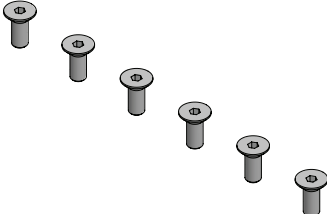
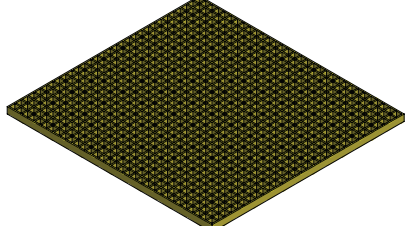
IMAGE 16

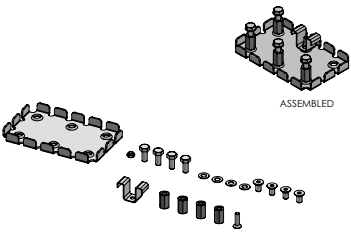
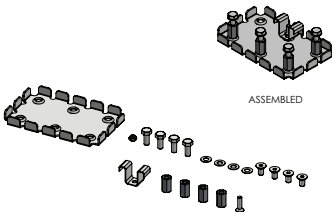
COMMISSIONING COMPLETE

Shower and eyewash are now commissioned and tank shower and eyewash are ready for use.

spare parts

Description	Part Number	Image
FIXINGS-FLATPACK FRAME TO PALLET	ET14SP002	 10 X ACETAL WASHERS 10 X SS316 WASHERS M16 10 X BOLTS M16X80
WATER LEVEL ASSEMBLY	ET14SP003	
TEMPERATURE GAUGE	ET14SP004	
SIGNAGE SHOWER - EYEWASH STAINLESS STEEL	ET14SP005	
FLOW CONTROLLER - ORIFICE PLATES	ET14SP006	
SHOWER ROSE ASSEMBLY	ET14SP007	

Description	Part Number	Image
PULL HANDLE ASSEMBLY	ET14SP008	
EYEWASH CONNECTOR KIT	ET14SP009	
EYEWASH OUTLET KIT	ET14SP010	 ASSEMBLED
FOOT BASE CLAMP KIT	ET14SP011	 ASSEMBLED
FOOT BASE CENTRE CLAMP KIT	ET14SP012	 ASSEMBLED
FOOT BASE CLAMP M10X25 SCREW - SET OF 6	ET14SP013	
FOOT BASE PANEL - 1 PANEL	ET14SP014	

Description	Part Number	Image
FOOT BASE ANCHOR PLATE KIT - LEFT	ET14SP015L	
FOOT BASE ANCHOR PLATE KIT - RIGHT	ET14SP015R	
INFILL KIT	ET14SP016	

cleaning

Enware product should be cleaned with a soft damp cloth using only mild liquid detergent or soap and water. Do not use cleaning agents containing a corrosive acid, sourcing agent or solvent chemicals. Do not use cream cleaners, as they are abrasive. Damage caused this way will not be covered by warranty.

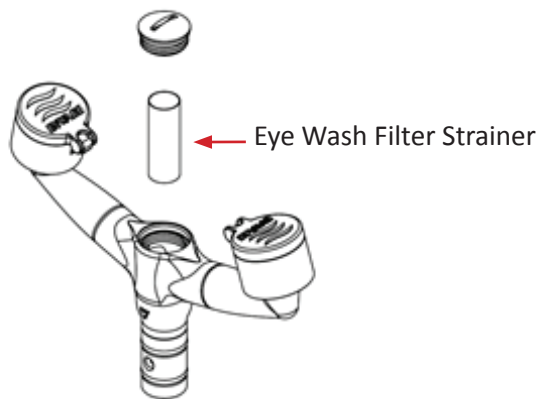
maintenance schedule

WEEKLY UNIT ACTIVATION

In accordance with ANSI Z358.1 or AS 4775 (whichever is applicable).

The unit should be activated every week for a period long enough to verify operation and ensure the flushing fluid is available. The tank must then be refilled to the correct height.

Note: the intent is to ensure that there is a flushing fluid supply at the head of the device and to clear the supply line of any sediment build up that could prevent fluid from being delivered to the head of the device and to minimise microbial contamination due to sitting water. Internal eye wash strainer should also be removed and cleaned during this process or when required.



ANNUAL INSPECTION

In accordance with ANSI Z358.1 or AS4775 (whichever is applicable).

Shower units and eye wash shall be inspected annually by a qualified technician to ensure ongoing performance.

INSPECTION TAGS

Inspection tags are available (if not already supplied) to record weekly and annual inspections. If you need to purchase inspection tags contact Enware.

FILTER MAINTENANCE

Filters to be checked and cleaned once a month or in accordance with usage. Filters are located at Y-Strainer on the inlet fill assembly, and at the filter strainer in the eye wash tee piece.

WATER QUALITY CHECK

Enware recommends that water quality is checked for suitability of use in an emergency. These checks should be done periodically (at intervals based on the specific site risk assessment) to determine if the flushing fluid needs to be replaced.

CLEANING THE TANK

It is recommended to empty the tank periodically to ensure good water quality. The interval will depend on the specific site risk assessment.