# Installation, Service, and User Instructions

## Wall Mounted Autopsy Sinks

### 1036-10, 1036-10A, 1036-12

**DISCLAIMER**



Mopec
800 Tech Row, Madison Heights, MI 48071
Phone: 1-800-362-8491
email: customerservice@mopec.com

**Owner's Record**

Model No.: _____

Serial No.: _____

Dealers Name: _____

Dealers Address: _____

Date of Purchase: _____

## Document Revisions

| Date | Version Number | Document Changes |
|---|---|---|
| XX/XX/2025 | 1.0 | Initial Release |
| | | |
| | | |
| | | |
| | | |

# Table of Contents

# 1 PREFACE

## 1.1 Description of the User

Wall Mounted Autopsy Sinks can be customized to suit the needs of your lab. With multiple different layouts and options as well as cart layouts specifically designed to be used with Mopec cart designs.

## 1.2 Notations Used in this Manual

- **Length (L)** refers to the front-to-back measurement of the sink, taken from end to end.
- **Width (W)** refers to the side-to-side measurement of the sink, taken across the width of the sink.
- **Height (H**) refers to the vertical measurement from the floor to the top surface of sink.
- **Depth (D)** refers to the top-to-bottom measurement of a feature within the sink's frame.

## 1.3 Models Covered in this Manual

- 1036-10 Wall Mounted Autopsy Station with Center Sink
- 1036-10A Adjustable Wall Mounted Autopsy Station with Center Sink
- 1036-12 Wall Mounted Autopsy Station with Center Dissecting Table

## 1.4 Explanation of Safety Warnings

This manual employs the following symbols to call attention to warnings, cautions, and notices.

**WARNING** **Warning** is used to indicate the presence of a hazard that CAN cause severe injury or death if ignored.

**CAUTION** **Caution** is used to indicate the presence of a hazard that Will or CAN cause personal injury or property damage if the warning is ignored.

**NOTICE** **Notice** is used to notify people of installation, operation, or maintenance information that is important but not hazard-related.

## 1.5 Obtaining Instructions

Instructions are typically supplied digitally and stored on a USB-type flash drive that is zip-tied to the frame. At any time, the most current revision of this manual can be downloaded from the company website list in section 1.5.1.

### 1.5.1 Internet

The latest version of the documentation is available at the following address: https://www.mopec.com/documents/

### 1.5.2 Ordering documentation

Documentation, user instructions, and technical information can be ordered by calling Mopec at **800-362-8491**.

### 1.5.3 Documentation feedback

If you are reading Mopec product documentation on the internet, any comments can be submitted on the support website. Comments can also be sent to customerservice@mopec.com.

We appreciate your comments.

# 2 DESCRIPTION OF THE PRODUCT

## 2.1 Purpose of the Product

1036 Wall Mounted Autopsy Sinks can be customized to suit the needs of your lab. They feature either a center sink or dissection table depending on laboratory needs. There is also an elevating version of the center sink design.

## 2.2 Technical Data

The 1036 Wall Mounted Autopsy Sinks are designed and manufactured under the guidelines:

- **ISO 9001:2015 with Design –** Mopec facility located at 800 Tech Row, Madison Heights MI USA.
- **UL 61010-1:2004 R10.08**
- **CAN/CSA-C22.2 NO. 61010-1-04+GI1 (R2009)**

## 2.3 Operating Specifications for the Sinks

- Dimensions:
  - 1036-10: 114” L X 34” W X 50” H
  - 1036-10A: 114” L X 30.5” W X 81.1” H
  - 1036-12: 134” L X 34” W X 50” H
- 304 Stainless Steel Construction

## 2.4 Product Elements

### 2.4.1 1036-10

The 1036-10 wall mounted autopsy sinks autopsy sinks are comprised of 4 main components. Those 4 main components are removable grid plates, the spray hose assembly, the sink, and the frame.

- Removable Grid Plates
  - The grid plates are comprised of stainless steel. The grid plates have ½” recessed holes that allow for drainage.
- The Spray Hose Assembly
  - The spray hose assembly has a 10ft hose that comfortably reaches the length of the sink and allows for the cleaning of the body.
- The Sink
  - The sink is equipped with a hand spray, a cold water body rinse valve with vacuum breaker and serrated hose fitting, hot and cold water fixtures with write blade handles, GFCI duplex outlets, and instrument drawers.
- The Frame
  - The frame is comprised entirely of 304 stainless steel.

### 2.4.2 1036-10A

The 1036-10A wall mounted elevating autopsy sinks are comprised of 4 main components. Those components are the removeable grid plates, spray hose assembly, sink, and the frame.

- Removable Grid Plates
    - The grid plates are comprised of stainless steel. The grid plates have ½" recessed holes that allow for drainage.
- The Spray Hose Assembly
    - The spray hose assembly has a 10ft hose that comfortably reaches the length of the sink and allows for the cleaning of the body.
- The Sink
    - The sink is equipped with a hand spray, a cold water body rinse valve with vacuum breaker and serrated hose fitting, hot and cold water fixtures with write blade handles, GFCI duplex outlets, and instrument drawers.
- The Frame
    - The frame is comprised entirely of 304 stainless steel. The frame contains two 12" actuators to raise and lower the frame.

### 2.4.3 1036-12

The 1036-12 wall mounted autopsy sinks are comprised of 5 main components. Those components are the pegboard, removeable grid plates and organ collection pan, spray hose assembly, dual sinks, and the frame.

- Pegboard
    - A removeable pegboard with a paper tower holder and a magnetic tool bar
- Removable Grid Plates and Organ Collection Pan
    - The grid plates and organ collection pan are comprised of stainless steel. The grid plates have ½" recessed holes that allow for drainage. The organ collection pan have a drain plug that allows for drainage.
- The Spray Hose Assembly
    - The spray hose assembly has a 10ft hose that comfortably reaches the length of the sink and allows for the cleaning of the body.
- The Dual Sinks
    - The dual sinks are equipped with a hand spray, a cold water body rinse valve with vacuum breaker and serrated hose fitting, hot and cold water fixtures with write blade handles, GFCI duplex outlets, and instrument drawers. The dimensions are 38"L X 20"W X 6"H for each sink.
- The Frame
    - The frame is comprised entirely of 304 stainless steel.

## 2.5 Warranty Statement

Products manufactured by Mopec will be free from defects in material and workmanship and conform to Mopec's description or specifications. If a warranty claim is made within one (1) year from the date of shipment or the date of installation (if installation is provided by Mopec), the defective or nonconforming Product or Part thereof will be repaired or (at Mopec's option) replaced free of charge, FCA Mopec's dock. All warranty claims must be in writing and received by Mopec within the warranty period. The warranty is not transferable (other than to customers of Mopec's authorized Distributors) and will not apply unless the Equipment has been properly installed, maintained, and operated in accordance with all instructions; and does not apply to defects, nonconformities, or other failure due to Equipment misuse, abuse, modifications, or other causes outside Mopec's control. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THE WARRANTY AS SET FORTH HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent that Mopec is acting as a supplier of Products manufactured by a third party, the Products will be warranted only to the extent that they are warranted by their manufacturers and Buyer (or its customer) agrees to look solely to the Product manufacturer for all warranty claims. For shipments outside the United States or Canada, as to any defective or non-conforming part, the part will be replaced upon return of the part to Mopec. Mopec will owe no obligation to perform any repair or to install any replacement part.

# 3 INSTALLATION

**Notice: If you have purchased installation from Mopec a Mopec Certified Technician or Contractor will cover section 3**

## 3.1 How to Unpackage your Sink

### 3.1.1 Check for freight damage:

- If the sink has sustained damage during transit or unloading from the carrier, file a freight claim.
  NOTICE Many large institutions use their own carrier. A freight claim would be filed with that provider.
- Check for damage to the skid that would result in an unsupported or twisted sink.
- Check that the sides of the crate have not been punctured or smashed.
- Check that the top of the crate has not sustained damage or has evidence of being placed upside down.
- Take photographs of any damage and contact Mopec or your private freight carrier if applicable.

### 3.1.2 Uncrating contents:

- Remove the top boards from the crate. Place in a dumpster or out of the way to dispose of later. Watch for staples, nails, and slivers of wood.
- Remove the sideboards, end boards, and plywood from the crate.
- Remove the corner posts of the crate. Pull downward and then sideways to break away from the base.
- Remove all the bracing at the bottom of the skid. Note the small 2”x 4” (5cm x 10cm) blocks nailed to prevent the sink from moving.
- Carefully cut the plastic wrap so the sink is not scratched, and the components are not damaged.
- Unwrap the plastic wrap and foam from the sink.
- Cut and remove the metal banding material securing the sink.
- Look the sink over for hidden damage. If found, take photos, and contact Mopec.

### 3.1.3 Transporting the sink to the final location:

- Place the sink on corner dollies or skid dollies on each end.
- Wheel the sink to the desired location and pay close attention to the dollies when going over thresholds or entering and exiting elevators.

### 3.1.4 Attaching the sink to the wall

- Check that there are no obstructions to attaching the sink to the wall. Remove obstruction if any are found
- Place the sink mount into the desired position
- Ensure the sink mount is level on both the top and bottom frame of the sink mount
- Once level, secure the mount to the wall using drywall or cement screws
- Ensure the sink is level

### 3.1.5 Mounting Instructions

- Verify all utility rough-ins have been supplied in the proper location and per the project specifications. Drawings for utilities is provided with the submittal packet information. Utilities can include: water lines, electrical, etc.
- Verify what type of support structure has been provided for mounting. Use mounting anchors appropriate for support structure.
- Verify mounting height for “z” bar mounting bracket. The “z” bar mounting bracket is supplied with each station. Drawings are provided with the submittal packet showing mounting height. Mount “z” bracket level with appropriate anchor for the backing support provided. The “z” bar is shorter than the overall length of the unit so you must center the “z” bar relative to the center of the station when mounted. Lengths of stations vary per project so you must reference your submittal information for the station length provided.
- Some stations are large and heavy so it is best to use a mechanical lift to maneuver the station into position. Make sure the unit is resting level on the fork arms. Sometimes a fork extension will be necessary. Raise the unit position and insert the flange of the station into the “z” bar mounting bracket. Lower into position. The unit will fully rest on the “z” bar. Then raise lightly to take the pressure off.
- While the lift is still holding the station in position, install the lower anchor at each gusset location. You should install at least 2 anchors per gusset. Gussets are located at each end of the station and 1 or 2 in the center of the unit. Use anchors per above recommendations for type of support structure.
- The station is now properly anchored to the wall and the lift may be released.

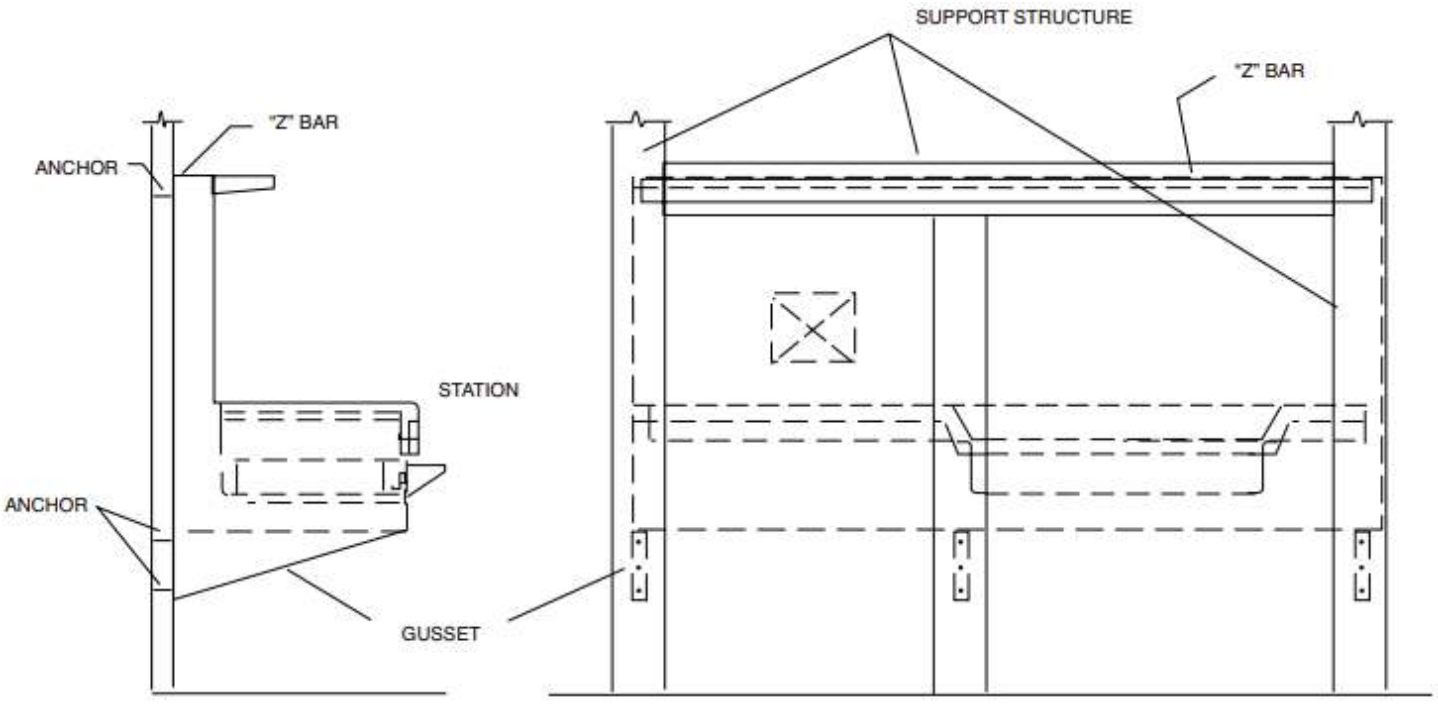



Figure 3-1 Wall Mount Structure Diagram

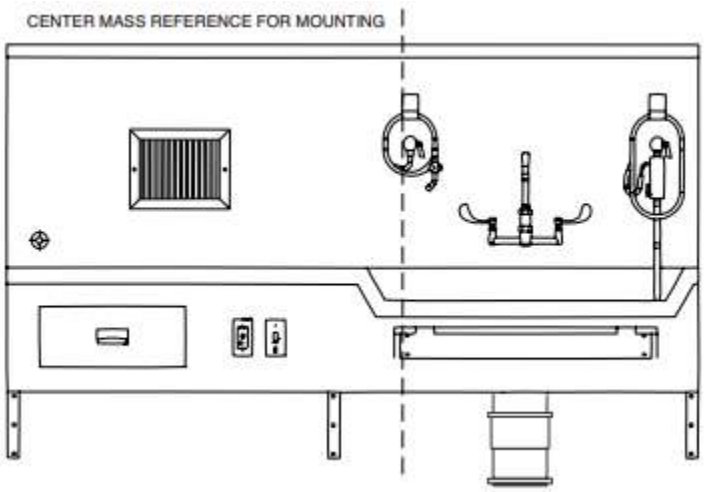



Figure 3-2 Center of Mass for Mounting

### 3.1.6 Plumbing Connection Instructions

- Flush out all water lines prior to connection. Debris may be in the lines from the construction process. Install shut off valves on each water line. Lines are clearly marked “RED” for hot and “BLUE” for cold. The station is provided with a single point connection for hot and cold water. A typical flex line can be used for connection.
- Connect drain line to sink basin or disposal unit, depending on the option provided. See disposal manufacturers manual for more information.

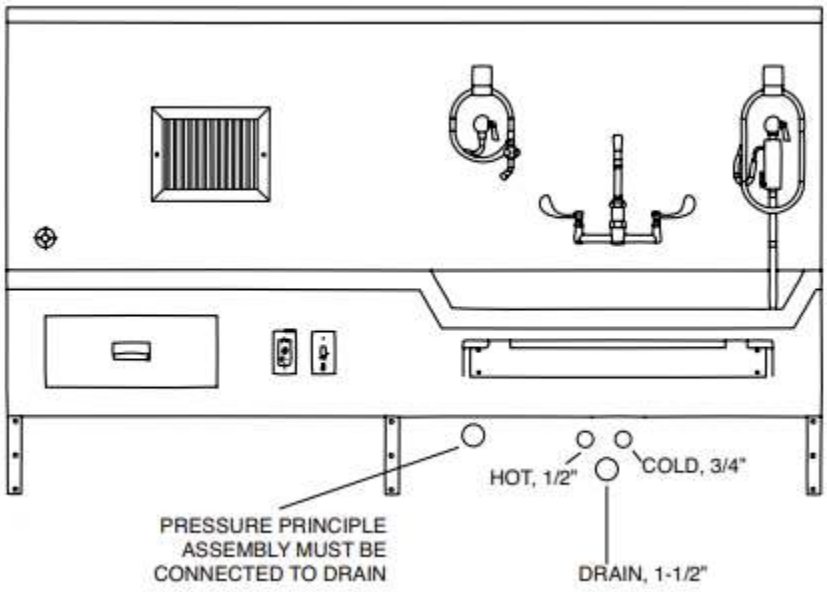



Figure 3-3 Waterline Hookup Diagram

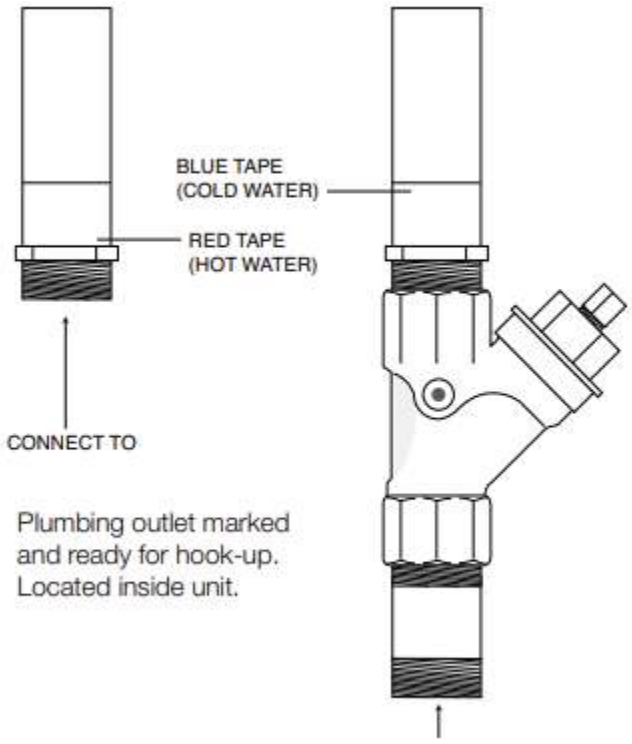



Figure 3-4 Hot/Cold Plumbing

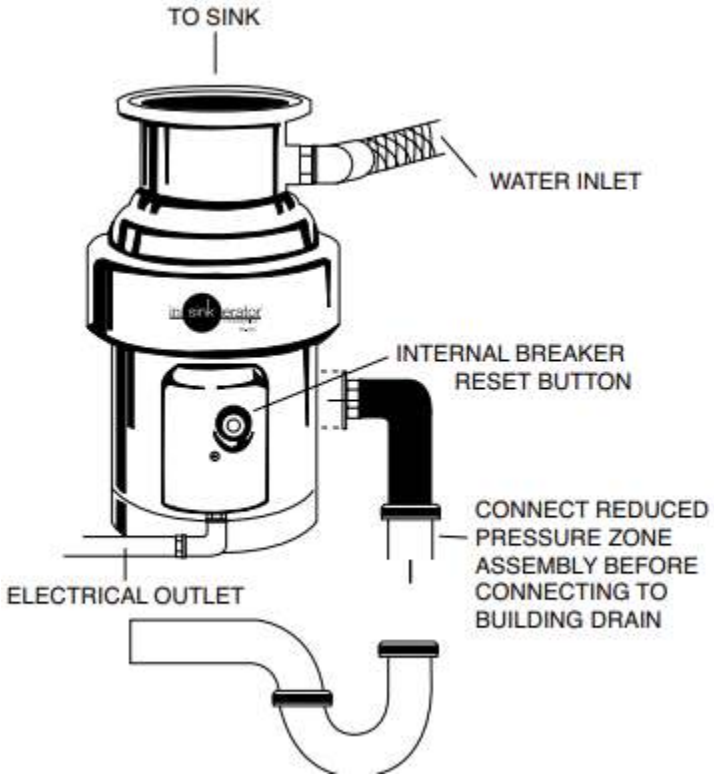



Figure 3-5 Disposal Hookup

### 3.1.7 Electrical Hookup

- Connect electrical lines form from station to building. Units are provided with watertight conduit lines for connection.
- A waterproof load center (if requested) with 2 circuit breaker disconnect with a 15A fuse (15A Circuit-Disposer) and a 15A fuse (15A Circuit-GFCI) will be attached to the unit itself. Then connected to the point of connection provided on the installation site.
- 15A Circuit-Disposal consists of:
    - Solenoids – .05A
    - Disposer Switch – 15A
    - Disposer Units:
        - .5hp, 8.4A
        - .75hp, 10.0A
        - 1 hp, 11.6A
- 15A Circuit-GFCI consist of:
    - GFCI – 20A
    - Duplex Receptacle – 20A
    - LED Lights - .31A
    - Formalin Foot Switch – 10A
    - Formalin Motor – 6.4A
    - Elevating Switch/System – 6A


Figure 3-6 Internal Wiring

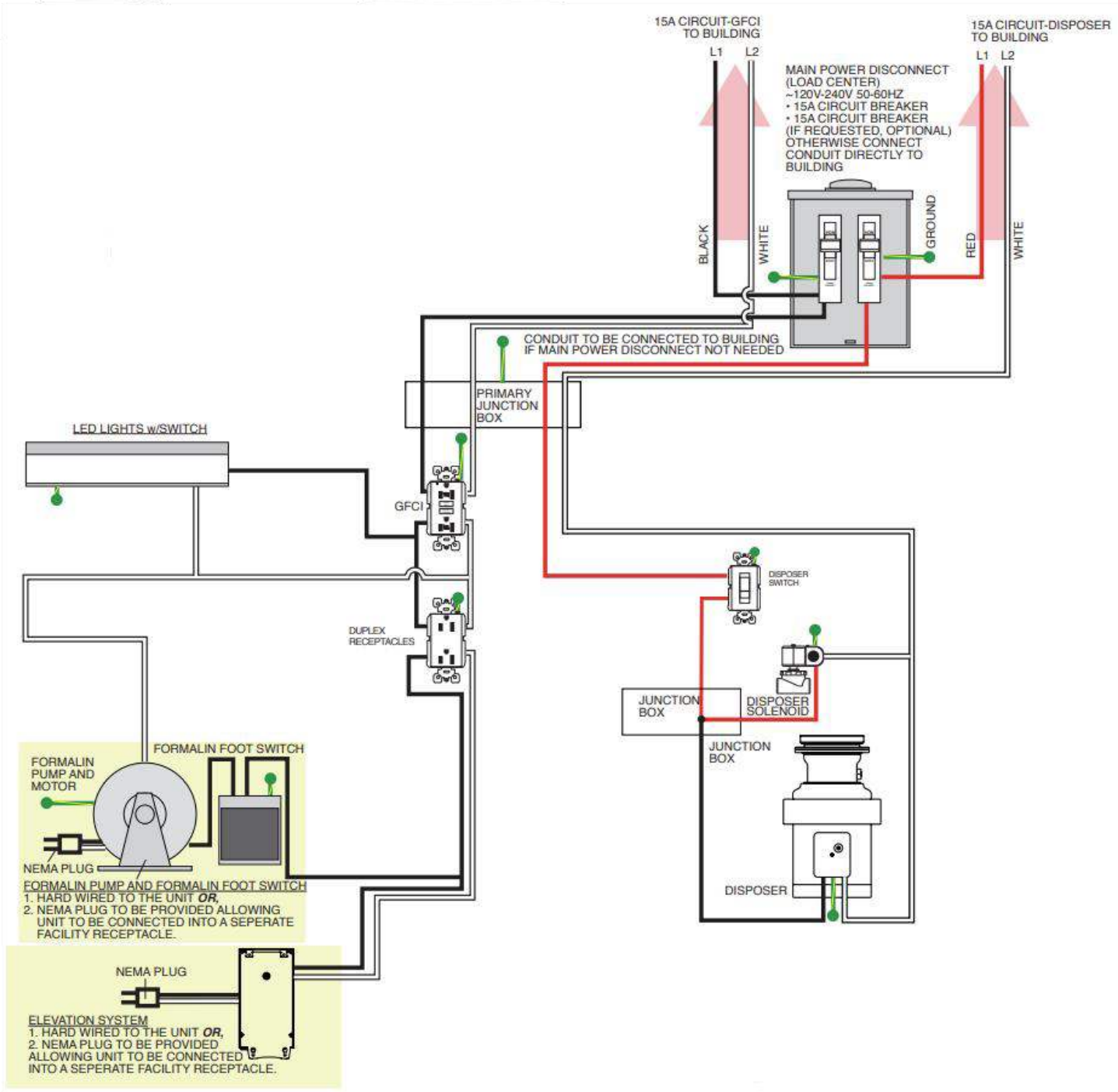



Figure 3-7 Electrical Flow Diagram

## 3.2 Decommissioning the Sink

**Notice: If you have purchased installation from Mopec a Mopec Certified Technician or Contractor will need to be utilized to maintain warranty status.**

### 3.2.1 Decontaminate the sink

- Decontaminate the sink per your standard processes

### 3.2.2 Move the sink to a disposing location.

- Ensure all connections are safely removed
- Follow section 3.1.3 for moving instructions
- Move the sink a designated disposal location

## 3.3 How to Store the Sink

- Decontaminate the sink per your standard processes
- Wipe WD40 on all stainless surfaces to protect from transfer rust
- Cover or drape the sink with a tarp

## 3.4 Disposal and Recycling

Disposal of the sink is ultimately up to local codes and guidelines. The following section breaks down the materials of construction for recycling purposes.

### 3.4.1 Stainless Steel

- The frame and sink are entirely made of stainless steel.

### 3.4.2 Plumbing

- The plumbing is made of a combination of stainless steel, copper piping, SS braided rubber lines, and Pex PVC.

### 3.4.3 Electronics

- The electrical components are comprised of circuitry, circuit board, electric motor, and plastic

# 4 OPERATION/USE

## 4.1 How to Use the Sinks

- Turn on desired hot or cold water from spicket by turning respective faucet handles
- To power on the disposal, turn the power switch to the on position.
- To power off the disposal, turn the power switch to the off position.

**WARNING** If electrical arcing is occurring do not attempt to turn off the power switch at the disposal. Either turn off power to the room or turn off the breaker for the area. Attempting to do so could result in electrical burns or electrocution.

## 4.2 How to Hand Spray Assemble

- Turn the valve on the assembly to the open position to let water flow into the hose
- Pull the lever to spray water.
- Once done using the spray hose, turn the valve on the assembly to the off position to stop the flow of water.

**CAUTION** **Caution** when using the hand spray assembly as it can introduce water hazards even if used properly. As such being aware of potential water hazards and cleaning spills as they occur are paramount to preventing accidents from occurring.

## 4.3 Raise/ Lower the Sink (1036-10A)

- To raise the sink, press the up arrow on the elevation switch. Release the switch when at desired height
- To lower the sink, press the down arrow of the elevation switch. Release the switch when at desired height

**CAUTION** **While** raising or lowering the sink, please take care to avoid any moving parts as they can cause potential pinch points while the sink is in motion.

# 5 MAINTENANCE

## 5.1 Stainless Steel Maintenance & Cleaning

### 5.1.1 Disinfecting stainless steel

All stainless-steel surfaces can be cleaned with soap and water to remove tissue and debris. The stainless-steel surfaces can be disinfected with a non-caustic disinfectant.

- Always wipe in the direction of the stainless-steel grain.
- Most disinfectants must be followed up with a water rinse to remove the salts that remain after these products dry. Always follow up a disinfection cleaning with a thorough rinse of water.
- DO NOT USE a straight bleach solution to clean your sink. Bleach will eventually erode stainless steel if not thoroughly rinsed.
    - Erosion from chlorine bleach is detectable and will void the warranty.
    - If your process must use chlorine bleach it must not exceed 10% and must be rinsed immediately after disinfection to avoid damage to the metal.

### 5.1.2 Stainless care and maintenance

To maintain your Stainless-steel product, follow these steps:

- Rinse the surfaces with water frequently.
- Do not touch the surfaces with oily hands.
- Always use soft abrasive fine grit pads such as Scotch-Brite™ Surface Conditioning Pad (Fine Grade) to clean grime in the direction of the metal grain.
- Once clean, condition your stainless surfaces with WD40 lubricant or Stainless-steel polish.

### 5.1.3 Use of DECAL

When a Decal solution is used a brown rust ring along with a milky white substance can deposit on the surface. Decal is very harsh, even the fumes can cause staining on stainless steel. Consider placing the Decal container you currently use inside a plastic base that will help catch drips that might occur.

- Clean and rinse your sink after every use of the Decal solution.

### 5.1.4 Rust and oxidation formation

Rust can and will occur on stainless steel if it is not maintained properly. The most common cause of rust is from using a ferrous material on or near the sink. This is referred to as "transfer rust". Salts from cleaners or disinfectants can extract ferrous materials and deposit or transfer them to stainless steel. Please see the following for an example of transfer rust.

Always rinse all disinfectants before they dry. Decal solutions and fumes are very aggressive and can deposit rust if not cleaned. Formalin use has not been shown to cause rust but it does contain salts and therefore can deposit rust.

There are a few ways to remove rust should you develop it.

- Vinegar – Pour White Vinegar on the rust and let it soak for 5 minutes. Scrub with a soft brush (like a toothbrush) Rinse with water and wipe dry.
- Lemon Juice & Baking Soda – Mix equal parts of each into a paste and spread over the affected area. Let it set for 30 minutes before washing away with a damp sponge. Repeat as necessary.
- Rust Remover – as a last resort try a chemical cleaner like Magica Rust Remover Magica Rust Remover | Best Rust Removal Products, and follow the instructions.

### 5.1.5 Scratch repair

A surface scratch can be repaired using the following technique. Completely removing a scratch will depend on how severe it is.

- Use Scotch-Brite™ Clean-N-Strip (Medium Grade) abrasive grit pads and apply firm pressure to sand the scratch.
- Sanding must always go in the direction of the grain. Sand in a perfectly straight line, avoiding the natural tendency to sand in an arc. Sand the surface until the scratch is gone.
- Polish using a very fine grade of Scotch-Brite™ Surface Conditioning Pad. Use the same motions as with sanding. Polish the surface until the original finish is restored.

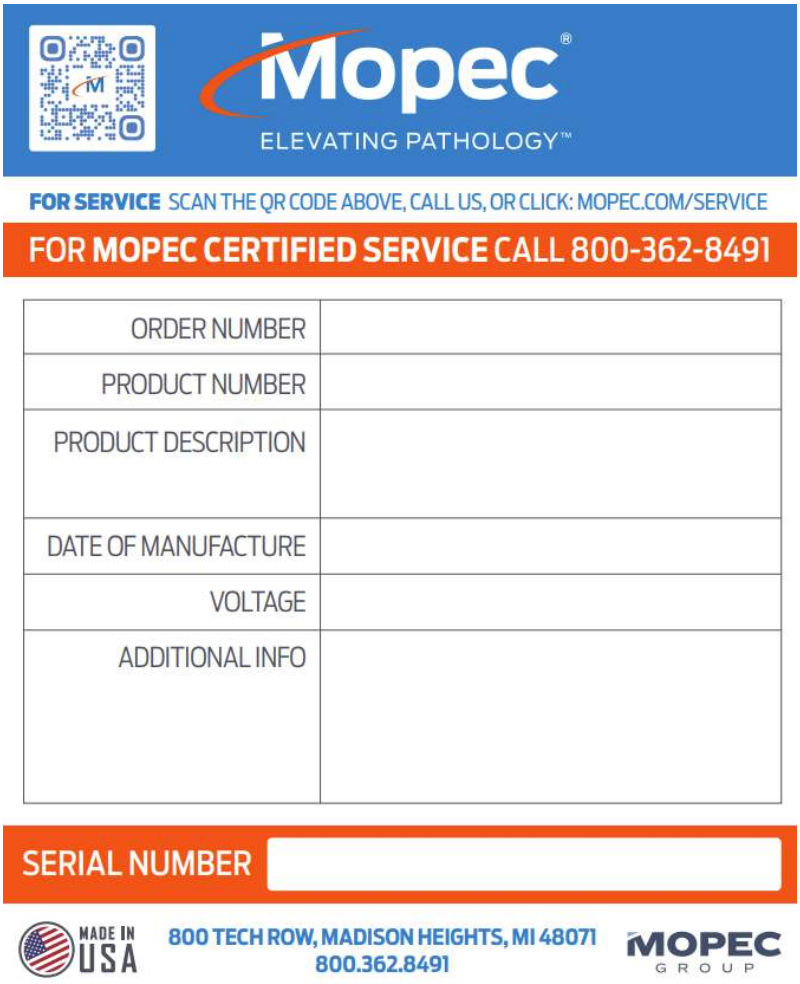
### 5.1.6 Fingerprints and solvent cleaning

The most common surface contaminants that occur from normal use are fingerprints and mild stains. These usually affect only appearance and do not affect corrosion resistance. They can easily be removed by a variety of simple cleaning methods.

- Fingerprints can be removed with a common glass cleaner or by gently rubbing with a paste of soda ash (sodium carbonate) and water which would be applied with a soft cloth. It is best to follow with a warm water rinse.

## 5.2 Mopec Service

PLEASE have the following information available BEFORE you call from your sink ID tag or original order or quote.

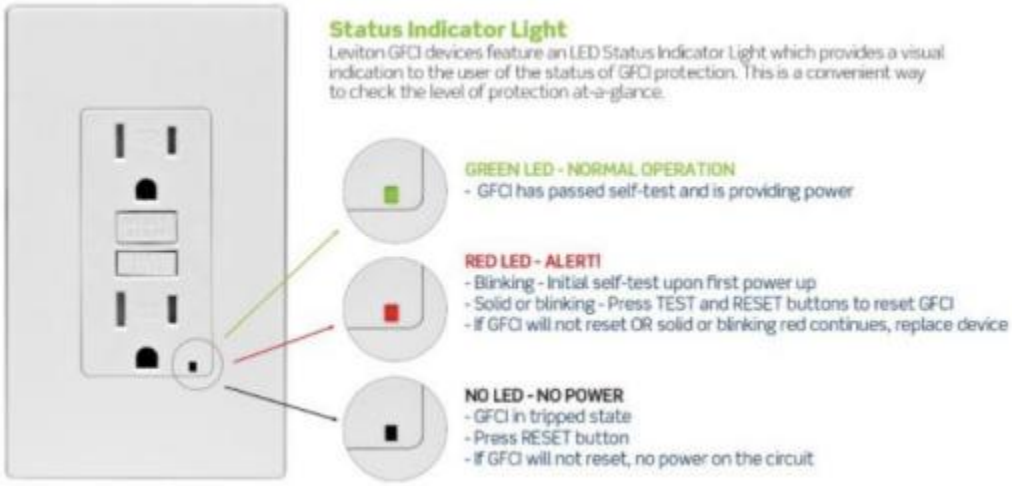



Product Model Number: *Example:* 1036-10
Product Serial Number: *Example:* 1036-10-0-140203-001

Call 1-800-362-8491 and follow the prompts. Or email us at customerservice@mopec.com.

## 5.3 Resetting the GFCI

Should the unit trip the GFCI; the controls, touch screen, and auxiliary power outlets will no longer be powered. First, check that your unit has tripped by referencing the image below.




**NOTICE** The GFCI will only reset if power is supplied to the station. Check that your Main Power switch is on and that your facility's circuit breaker is not tripped.

- Press the TEST and RESET buttons on the GFCI and confirm operation or status lights per the diagram above.
- If the GFCI has reset and shows a green light the unit is ready to operate.
- If the GFCI fails, there may still be a ground fault in the system or the GFCI unit may need to be replaced.

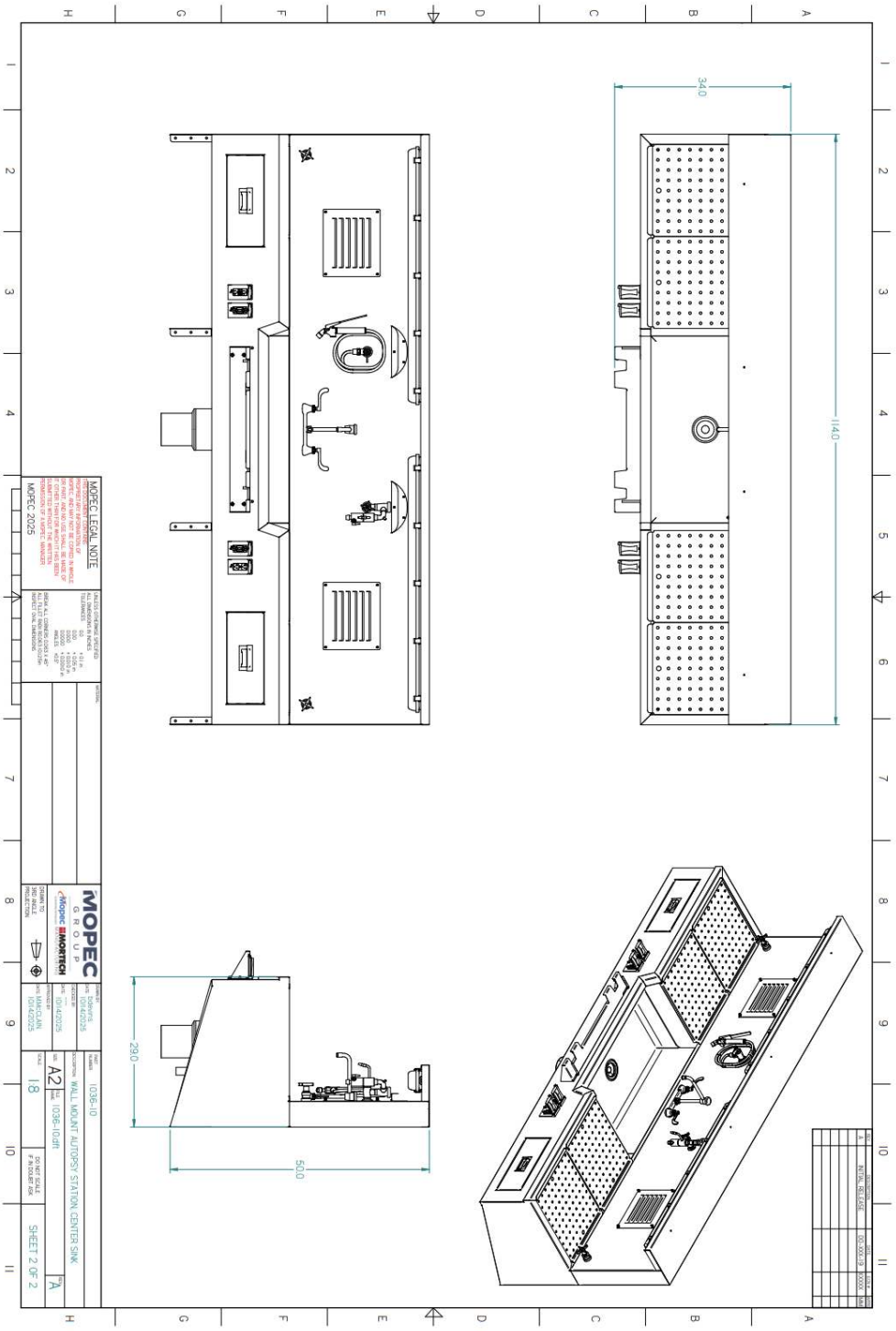
# 6 TROUBLESHOOTING AND REPAIR

## 6.1 How to Identify and Solve Problems

| Error / Issue / Failure | Cause | Solution |
|---|---|---|
| **Plumbing Failures** | | |
| The faucet is not working | The water to the sink is not on | Assure water from the facility is routed to the sink |
| The sink is flooding | The sink is not draining | Check for obstructions that are preventing the sink from draining<br>Run disposal to break apart possible blockages |
| The hand spray does not work | There is no water supplied to the sink | Assure the water valve from your facility is on |
| | There is water supplied to the sink, but not the hand spray | Assure the concealed shot off valves to the hand spray are on |
| | The hose is kinked | Assure the hose is not kinked |
| **Electrical Failures** | | |
| The disposal is not working | Circuit breaker has tripped | Reset circuit breaker on the bottom of the face of the disposal with a long and thin object and press for 10 seconds. |
| There is no power to the GFCI | The GFCI has been tripped | Reset the GFCI |
| | There is no power to the sink | Turn on the power to the facility |
| **Mechanical Failures** | | |
| The sink cannot be raised or lowered. | The actuators have stopped working | Contact Mopec for possible solutions |

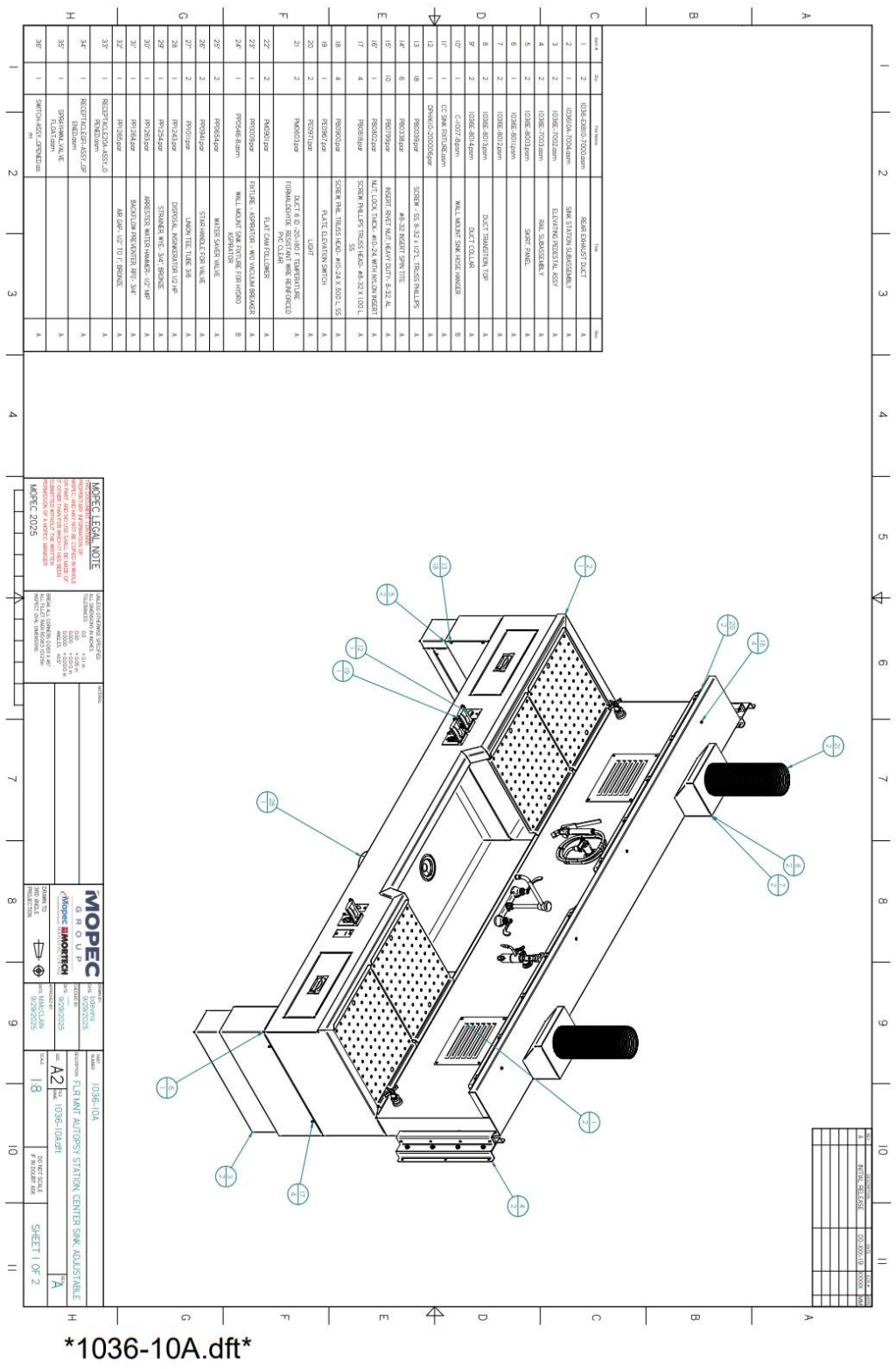
# 7 DOCUMENTATION

## 7.1 Sample Rough-in Drawing 1036-10

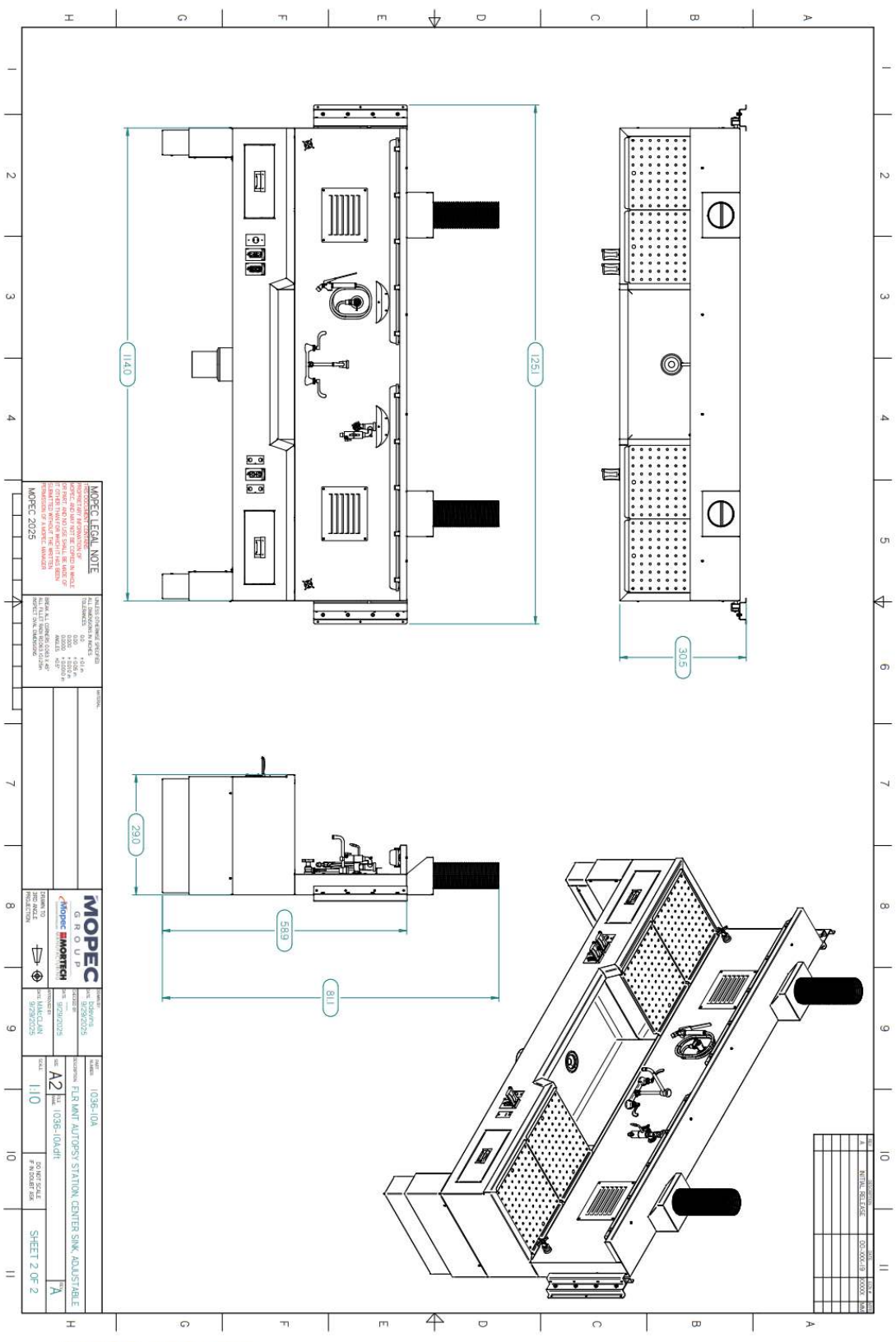



*1036-10.dft*

## 7.2 Sample Rough-in Drawing 1036-10A

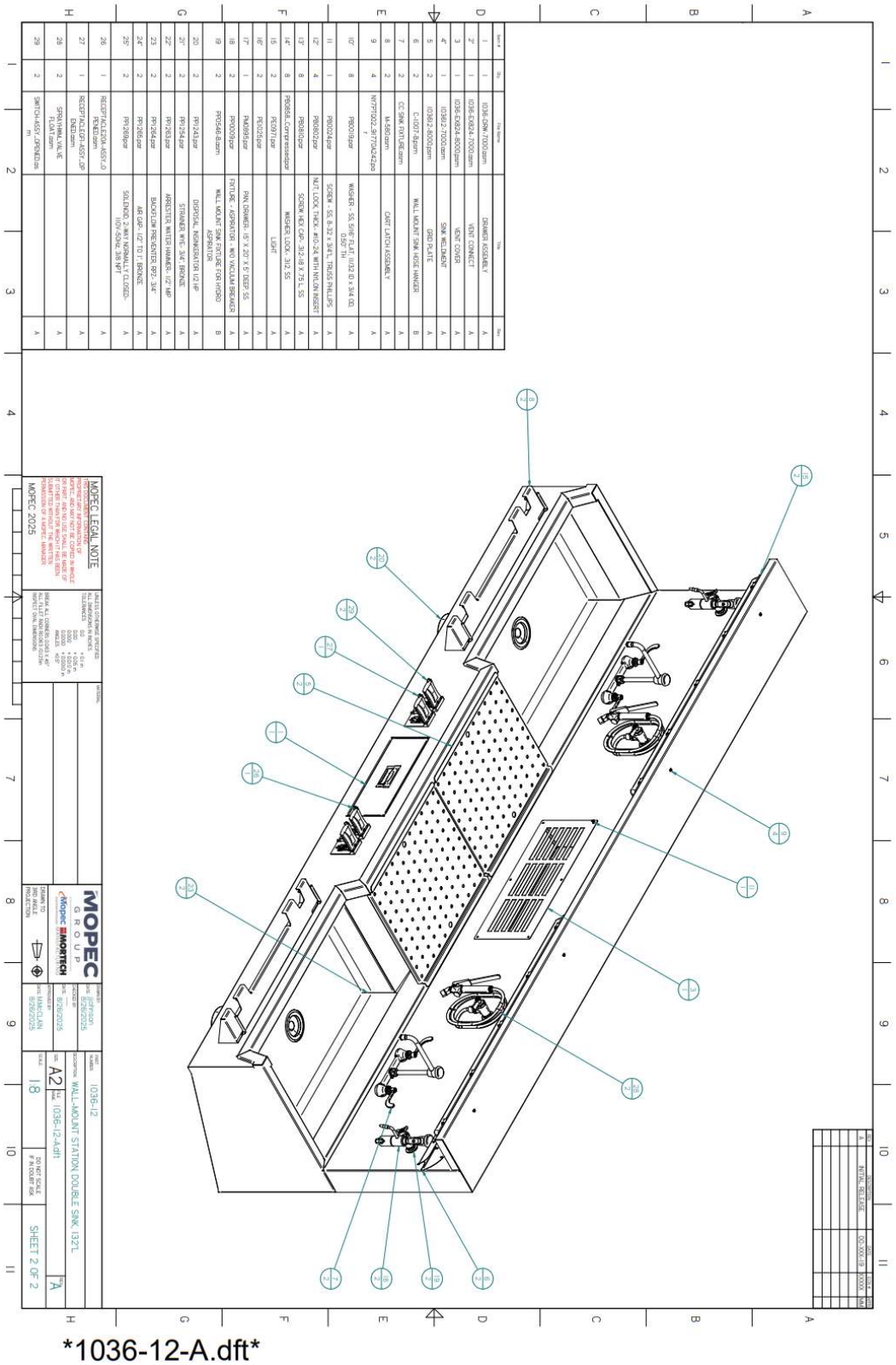


*1036-10A.dft*

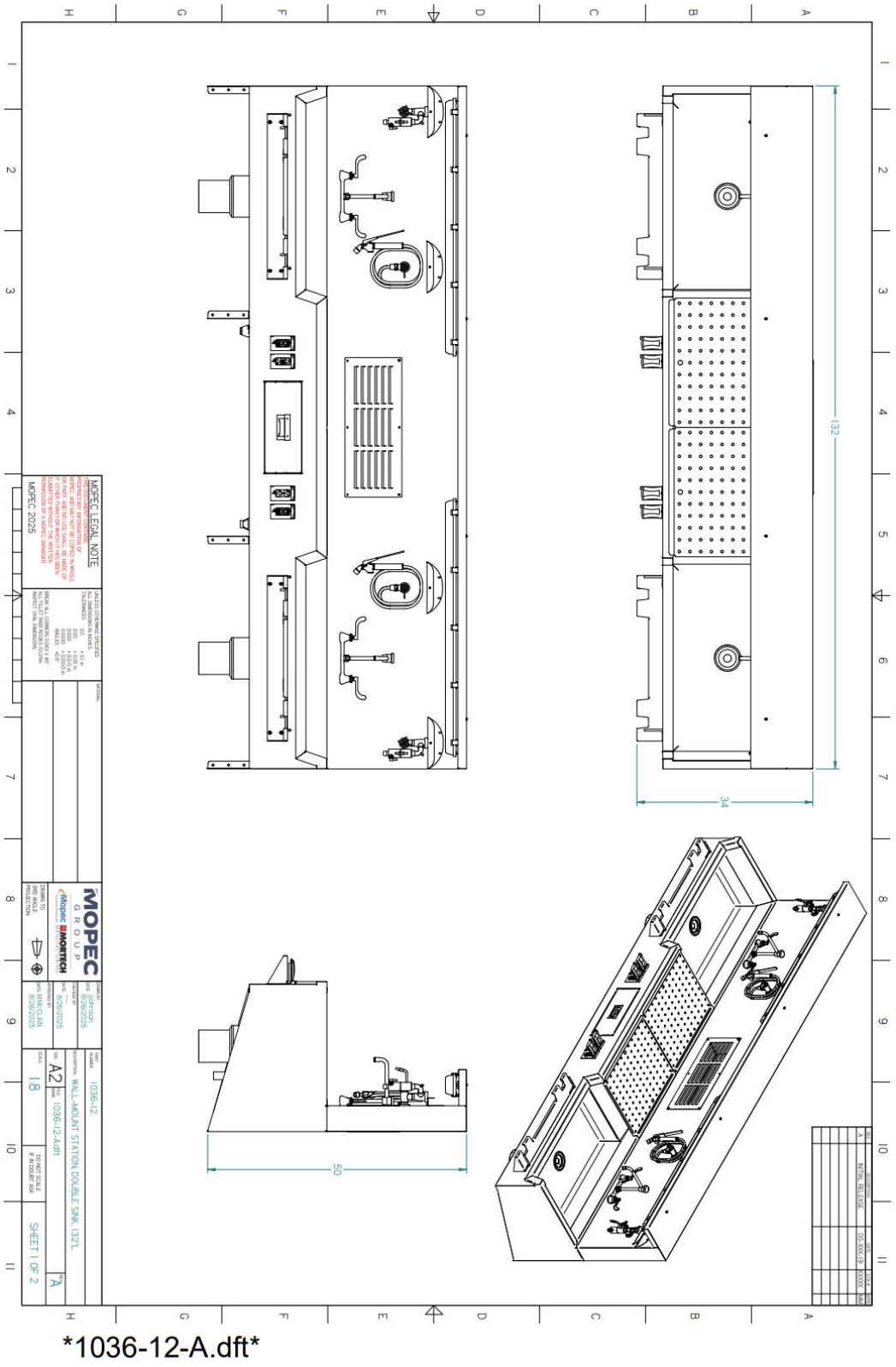

1140
1251
305
290
589
818
MOPEC LEGAL NOTE
MOPEC 2025
1036-10A
FLR MNT AUTOPSY STATION CENTER SINK ADJUSTABLE
1:10
A2
1036-10A.dft
SHEET 2 OF 2
INITIAL RELEASE

*1036-10A.dft*

## 7.3 Sample Rough-in Drawing 1036-12



*1036-12-A.dft*


MOPEC LEGAL NOTE
MOPEC 2025
1036-12
WALL-MOUNT STATION DOUBLE SINK 132L
1036-12-A.dft
A2
1:8
SHEET 1 OF 2
A
132
34
50

*1036-12-A.dft*

# 8 COMPONENTS

## 8.1 Ground Fault Circuit Interrupter (GFCI)

- Lockout Action
  - Automatically tests every time the “RESET” button is pushed.
  - The trip latching mechanism is SmartLockPROGFCIs is a one-piece “T” design for efficient operation.
  - There are 4 sets of contracts for load terminals and face. SmartLockPROGFCIs use a patented bifurcated bridge contact for efficient operation.
  - The SmartLockPROGFCIs with lockout action is designed and patented by Leviton.
- General
  - Trip threshold meets or exceeds UL requirements for tripping time.
  - Improved immunity to high-frequency noise reduces nuisance tripping.
  - Impact-resistant thermoplastic cover and body.
  - Advanced electronics design provides superior resistance to electrical surges and over-voltages
  - Expanded wiring options with nine back-wire holes (two for each line and load connection plus one for ground with an internal clamp).
  - Silver alloy contacts.
  - Versions available with matching TEST and RESET buttons and traditional black and red models.
  - Compatible with all Decora® devices and wall plates; available in select Decora colors.
  - Hospital Grade and Blank Face Switch-Rated models available.
  - Packed with coordinating wall plate.
  - Agency Standards & Compliance:
    - Meet or exceed all new UL requirements for July 28, 2006
    - UL Standard 943 Class A (GFCI) and 498 (Receptacles)
    - UL Listed (File # E-48380)
    - CSA Certified (File #LR-57811)
    - NOM Certified (File #057)
- Material Characteristics
  - Environmental: Flammability UL-94 V2 Rating
  - Operating Temperature: -35°C to 65°C

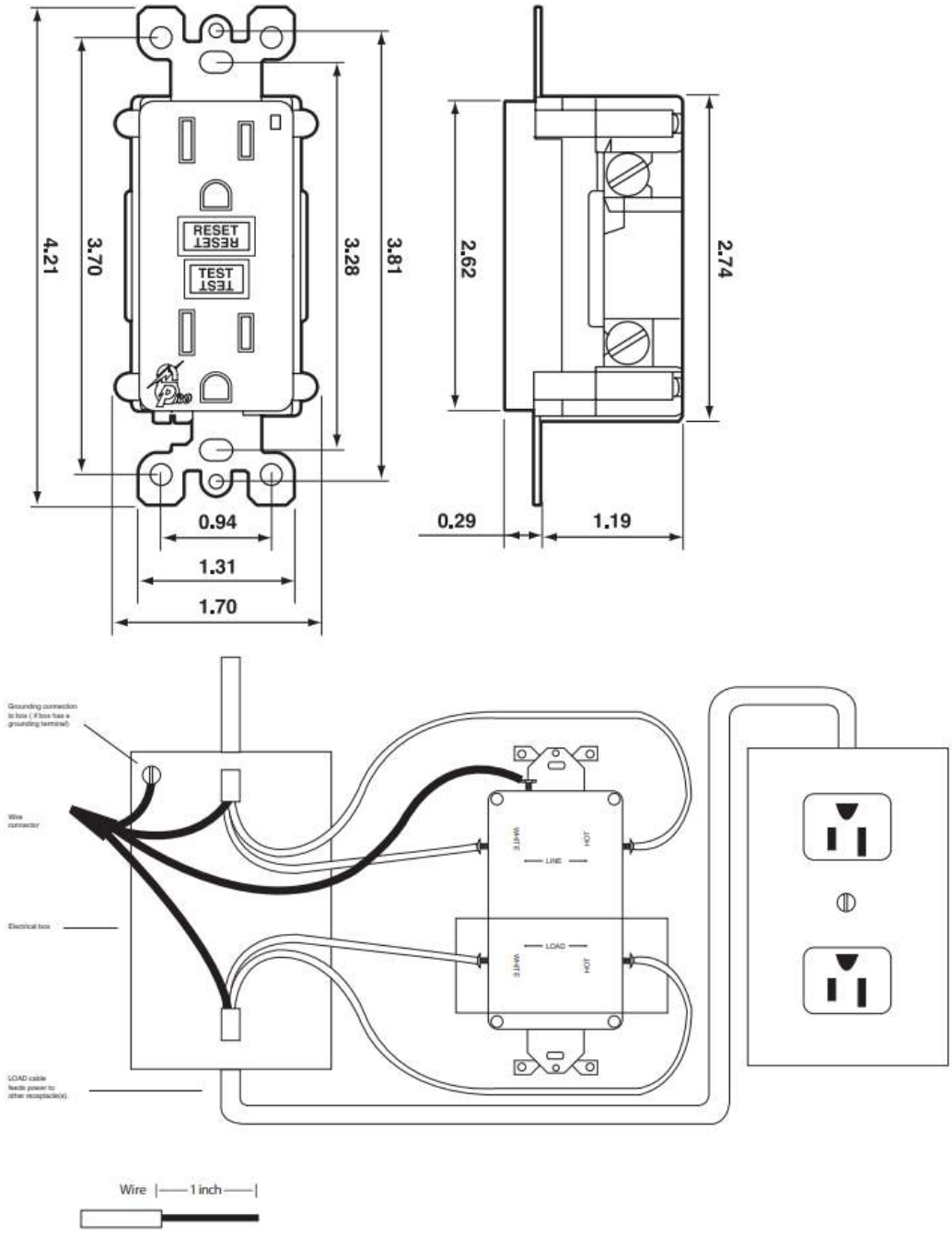



Figure 8-1 GFCI Diagram

## 8.2 Liquid-Tuff™ UL Liquidtight Flexible Non-Metallic Conduit (Type LFNC-B)

- Scope
  - This specification covers AFC Cable Systems, Inc. UL LIQUID-TUFFTM Integral Liquidtight Flexible Non-Metallic Conduit, Type LFNC-B designed for use in wet, dry or oily locations as a flame resistant, non-metallic raceway for power, control and communications cables in compliance with Article 356 of the

National Electrical Code. The product is UL Listed for 80°C (176°F) in a dry location, 60°C (140°F) in a wet location and 70°C (158°F) in an oily location. It is also UL Listed through 2-inch trade sizes for direct burial, outdoor use and sunlight resistance. In addition, the product is CSA certified for use at 75°C (167°F) in dry and oily locations and for minus 18°C (0°F) low temperature applications. This Liquidtight Flexible Non-Metallic Conduit is manufactured and tested in accordance with Underwriters Laboratories Inc. Standard UL 1660 and CSA International Standard CSA C22.2 Number 227.2. The product carries the UL Listing Mark and the CSA Certification Mark.

- Construction
    - Liquidtight Flexible Non-Metallic Conduit, Type LFNC-B is a raceway of circular cross section with a smooth polyvinyl chloride (PVC) inner surface and an integral reinforcing member within the conduit wall. The wall thickness and dimensions of the integral conduit shall comply with Table 6.4 of UL 1660 and Table 1B of CSA C22.2 No. 227.2.
- Grounding
    - A separate Grounding conductor is required by both the National Electrical Code and the Canadian Electrical Code for all trade sizes.
- Markings
    - The outer surface of the conduit shall be clearly marked with a legible print legend in accordance with UL 1660 and CSA C22.2 No. 227.2.
- Performance Tests
    - The completed UL LIQUID-TUFFTM Liquidtight Flexible Non-Metallic Conduit, Type LFNC-B shall meet all of the performance requirements contained in UL 1660 and CSA 22.2 No. 227.2 and outlined in Appendix A.
    - Package lengths in excess of 100’ contain splices: these splices must be cut out before use.
- Reference Standards
    - UL 1660: Standard for Liquidtight Flexible Non-Metallic Conduit
    - CSA C22.2 No. 227.2: Standard for Liquidtight Flexible Non-Metallic Conduit
    - UL File References: UL E123464; CSA 69271
    - NEC® Articles: 356, 390.15, 501.10(B)(2), 502.10(A)(2), 503.10(A)(2), 511.7(A)(1), 620.21, 645.5(D)(2), 680.21, 680.23, 680.25, 680.27, 680.42, 695.6(E) and 695.14(E).

## 8.3 Spray Hose Assembly

- Assembly
    - Single wall Control Valve (Model #2700)
    - Spray Head (Model #10820)
    - Spray Handle (Model #2913)
    - Spray Hose (Model #SH10)
- Recommended Settings
    - 110°F at 80psi
- System Limits

  - Temperature: 40°F min to 140°F max.
  - Pressure: 200 psi max. static
- Shipping Weight
  - 11.5 lbs

## 8.4 Solenoid

- Operation
  - Normally closed: Valve is closed when solenoid is de-energized and opens solenoid is energized.
- Installation
  - Check nameplate for correct catalog number, pressure, voltage, and service.
- Piping
  - Connect piping to the valve according to markings on the valve on the valve body.

**NOTICE** For the protection of the solenoid valve, install a strainer or filter suitable for the service involved in the inlet side as close to the valve as possible. Periodic cleaning is required depending on the service conditions.

- Wiring
  - Wiring must comply with Local and National Electrical Codes.
- Solenoid Temperature
  - The solenoid enclosure becomes hot and can be touched with the hand for only an instant.
- Maintenance
- Cleaning
  - A periodic cleaning of all solenoid valves is desirable. The time between cleanings will vary, depending on media and service conditions. In general, if the voltage to the coil is correct; sluggish valve operations, excessive leakage or noise will indicate that cleaning is required.
- Preventative Maintenance
  - Keep the medium flowing through the valve as free from dirt and foreign material as possible.,
  - While in service, operate valve at least once a month to ensure proper opening and closing.
  - Periodic inspection (depending on media and service conditions) of internal valves parts for damage and excessive wear is recommended. Thoroughly clean all parts. Replace any parts that are worn or damaged.
- Coil Replacement
  - Turn off electrical power supply and disconnect coil leads.
  - Process in the following manner:
    - Remove retaining cap or clip, nameplate and cover.

**⚠ CAUTION** **When the metal retaining clip disengages, it will spring upwards.**

    - Remove spring washer, insulating washer, and coil. Insulating washers are omitted when a molded coil is used.

- Reassemble in reverse order of disassembly paying careful attention to exploded view provided for identification and placement of parts.

**⚠ CAUTION** **The solenoid must be fully reassembled as the housing and internal parts are part of and complete magnetic circuit. Place insulating washer at each end of the coil if required.**

## 8.5 Vapor Tight Light Fixture

Provides versatile lighting in line voltage. Frosted glass diffuser eliminates glare for task and accent lighting applications.

- Features
  - These fully weatherproof units are designed for use in areas of wet location. Designed to withstand direct contact with rain, these units are corrosion proof and waterproof.
- Specifications
  - VTP-R: Premium model (Round)
  - Specification-Grade
  - 120-277 multi-volt electronic ballast
  - High-impact, gray polycarbonate housing
  - Silicone gasketing provides a seamless seal
  - VTPR132-120/277 uses one 32-watt T8-Type lamp and
    - Die-formed galvanized steel mounting brackets
    - EZ-Snap Stainless Steel Clip

## 8.6 Receptacle Cover

- Type: Vertical
- Color: Gray
- Heavy Duty Die Cast Metal Construction
- Patented Quick-Fit™ Key Hole Mount for Easy Installation
- Patented Universal-Fit™ Adapter Technology
- Lockable Tab
- Premium Powdercoat Finish
- Spring Hinge Closure
- UL Listed & 2008 NEC Compliant

## 8.7 Wall Mount Faucet (T&S B-0230-LN)

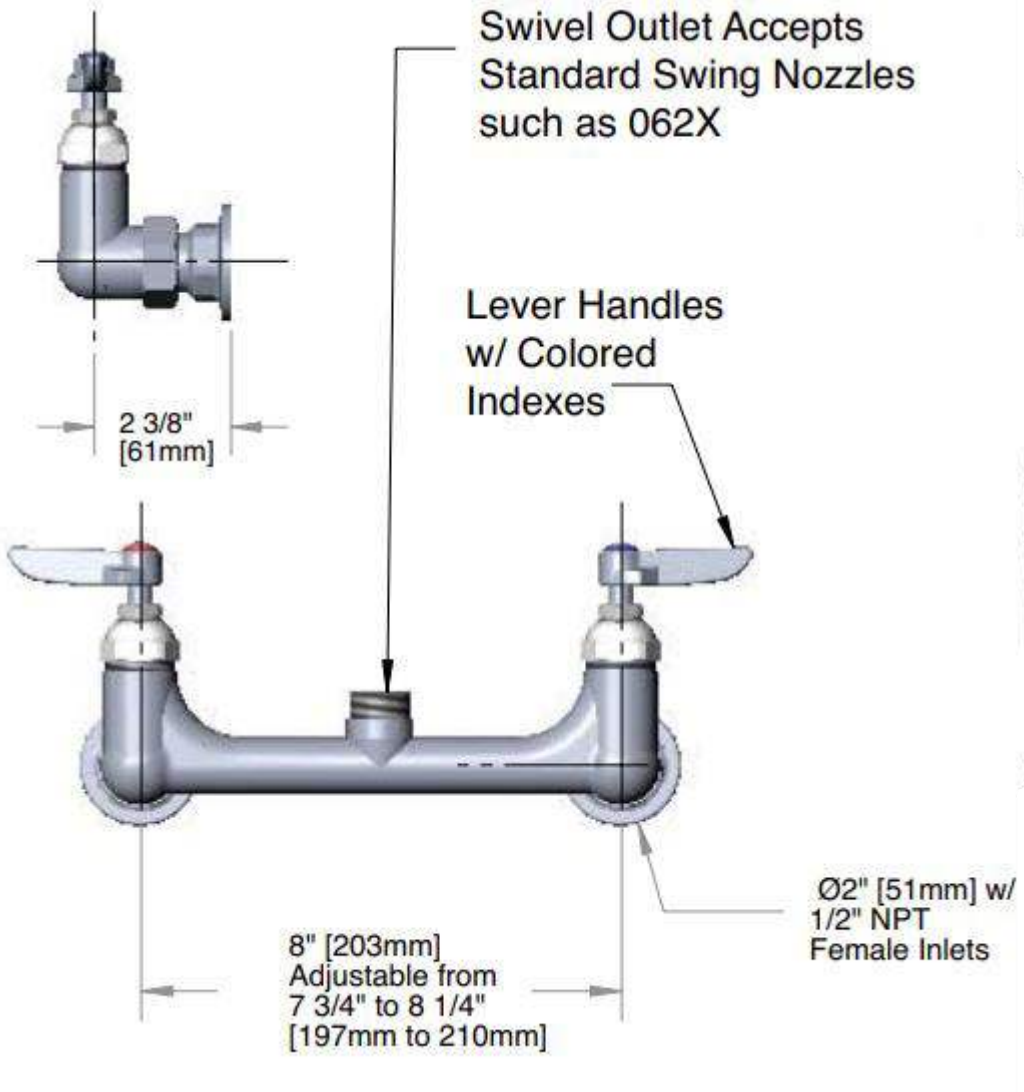



Figure 8-2 Faucet Connections and Levers Diagram


Figure 8-3 Faucet and Spigot Photo

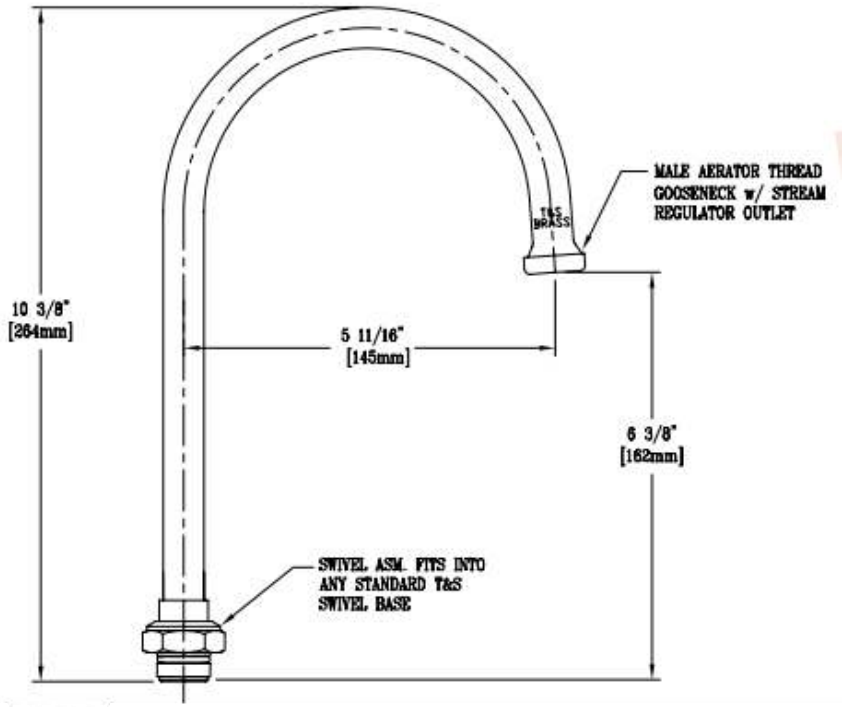



Figure 8-4 Spigot Dimensions

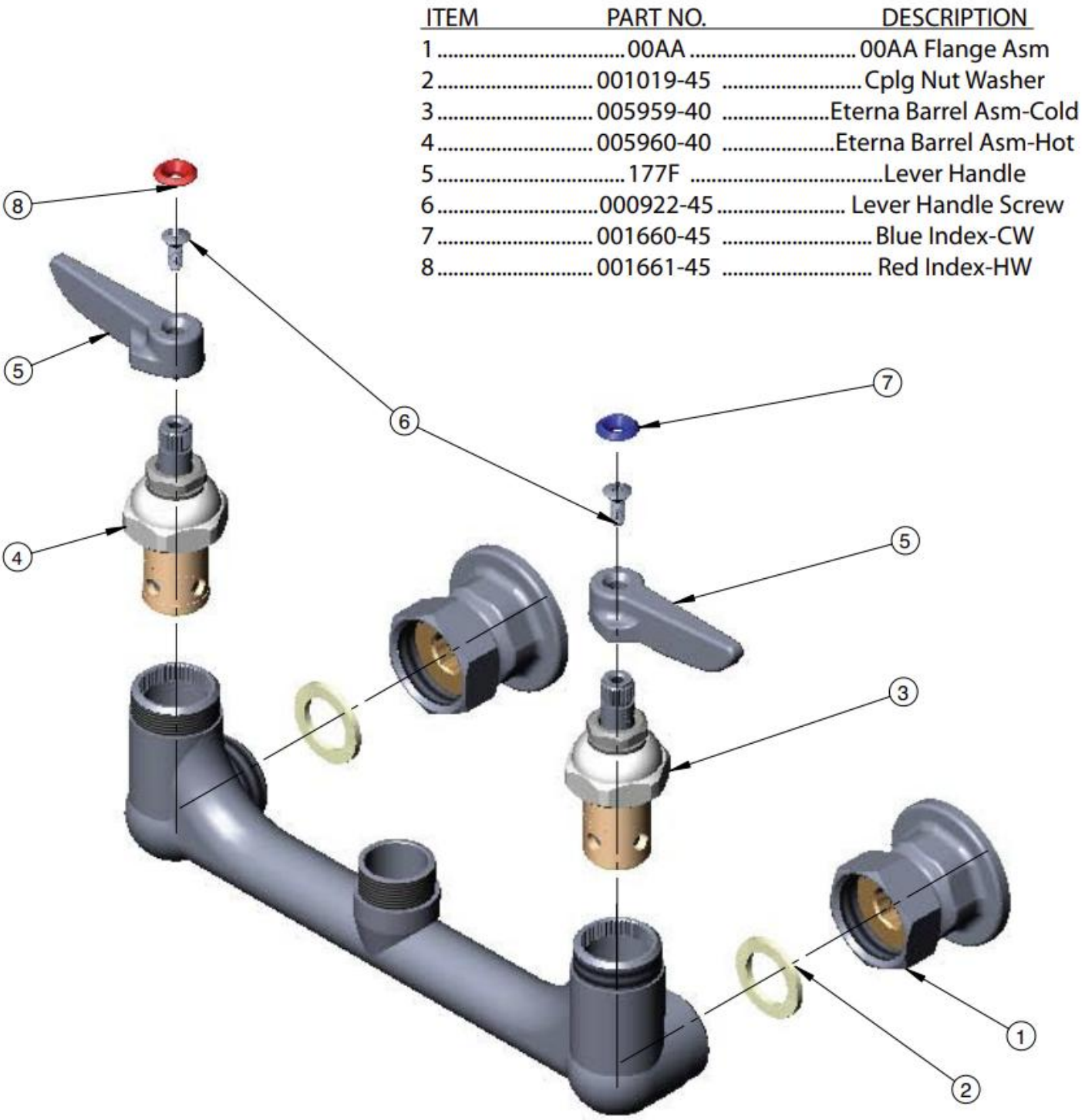



Figure 8-5 Lever Connections Diagram and Parts List

## 8.8 Wye-Pattern, Bronze Strainers (Sizes: ¾" – 19mm)

Wye-Pattern, Bronze Strainers are designed to protect plumbing system components from dirt, rust, and other damaging debris. This series features a tapped retainer cap and closure plug.

- Features
  - Bronze body
  - Wye-pattern
  - Tapped retainer cap
  - Closure plug
  - Special flared screen
    - Opening on upstream end to provide unrestricted flow through the strainer
- Specifications
  - A wye-pattern, bronze strainer to be installed as indicated on the plans. The strainer must have a tapped retainer cap and closure plug. Strainer shall be rated to 400psi (27.6 bar) WOG; 125psi (8.6 bar) WSP for sizes 3/8" – 2" (10-50mm) and 300psi (20.7 bar) @ 210°F (99°C); 125psi (8.6 bar) WSP @ 353°F (178°C) for sizes 2 ½" – 3" (65-80mm). Strainer shall be a Watts Regulator Company Series 777SI (threaded ends) or S777SI (solder ends).
- Materials
  - Body: Bronze
  - Retainer Cap: Brass
  - Plug: Bronze
  - Gasket: NBR
  - Standard Screen: #20 mesh, 304 stainless steel D

**NOTICE** Check periodically for debris. To access the screen, remove the filter plug and slide the screen out. Remove debris and rinse clean, then replace the filter plug.

## 8.9 Reduced Pressure Zone Assembly – ¾" (Series 009)

Sizes: ¼" – 3" (8-80mm)

Series 009 Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series can be used in a variety o f installations, including the prevention of health hazard cross connections in piping systems or for containment at the service line entrance.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an immediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes ¼" – 1" (8-25mm) shutoffs have tee handles.

- Features

- Specifications
    - A Reduced Pressure Zone Assembly shall be installed at each potential health hazard location to prevent backflow due to back-siphonage and/or back pressure. The assembly shall consist of an internal pressure differential relief valve located in a zone between two positive seating check modules with captured spring and silicone seat discs. Seats and seat discs shall be replaceable in both check modules and the relief valve. There shall be no threads or screws in the waterway exposed to the line fluids. Service of all internal components shall be through a single access cover secured with stainless steel bolts. The assembly shall also include two resilient seated isolation valves, four resilient seated test cocks and an air gap drain fitting.
    - The assembly shall meet the requirements of:
        - USC Manual 8 Edition
        - ASSER std. 1013
        - AWWA std. C511
        - CSA B64.4
        - Shall be a Watts Regulator Co. Series 009
- Materials (1/4" – 2" (8-50mm)
    - Bronze body construction, silicone rubber disc material in the first and second check plus the relief valve. Replaceable polymer check seats for first and second checks. Removable stainless steel relief valve seat. Stainless steel cover bolts. Standardly furnished with NPT body connections. For optional bronze union inlet and outlet connections, specify prefix U (1/2" – 2" (15-50mm)). Series 009QT furnished with quarter turn, full port, resilient seated, bronze ball valve shutoffs.
- Approvals
    - ASSE, AWWA, CSA, IAPMO
    - Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. Approval models QT, AQT, PC, NRS, OSY.
    - UL Classified ¾" – 2" (20-50mm) (LF models only)

## 8.10 Hydro-Aspirator

- Mandatory Operation Requirements
    - Minimum ½" supply line
    - Minimum 60lbs of water pressure
    - Minimum 4 gallons per minute of water flow through unit.
- Specifications
    - Vacuum up to 26 inches can be maintained at minimum requirements.
    - Trocar or aspiration line is attached to the aspiration tube.
    - Diverter handle at lower must be parallel to the length of the body of aspirator.
    - To back flush the trocar/aspiration line, turn the diverter handle perpendicular to the length of the aspirator. Tubing can be added to the outlet bottom of the aspirator to direct the flow of water into the sink drain.

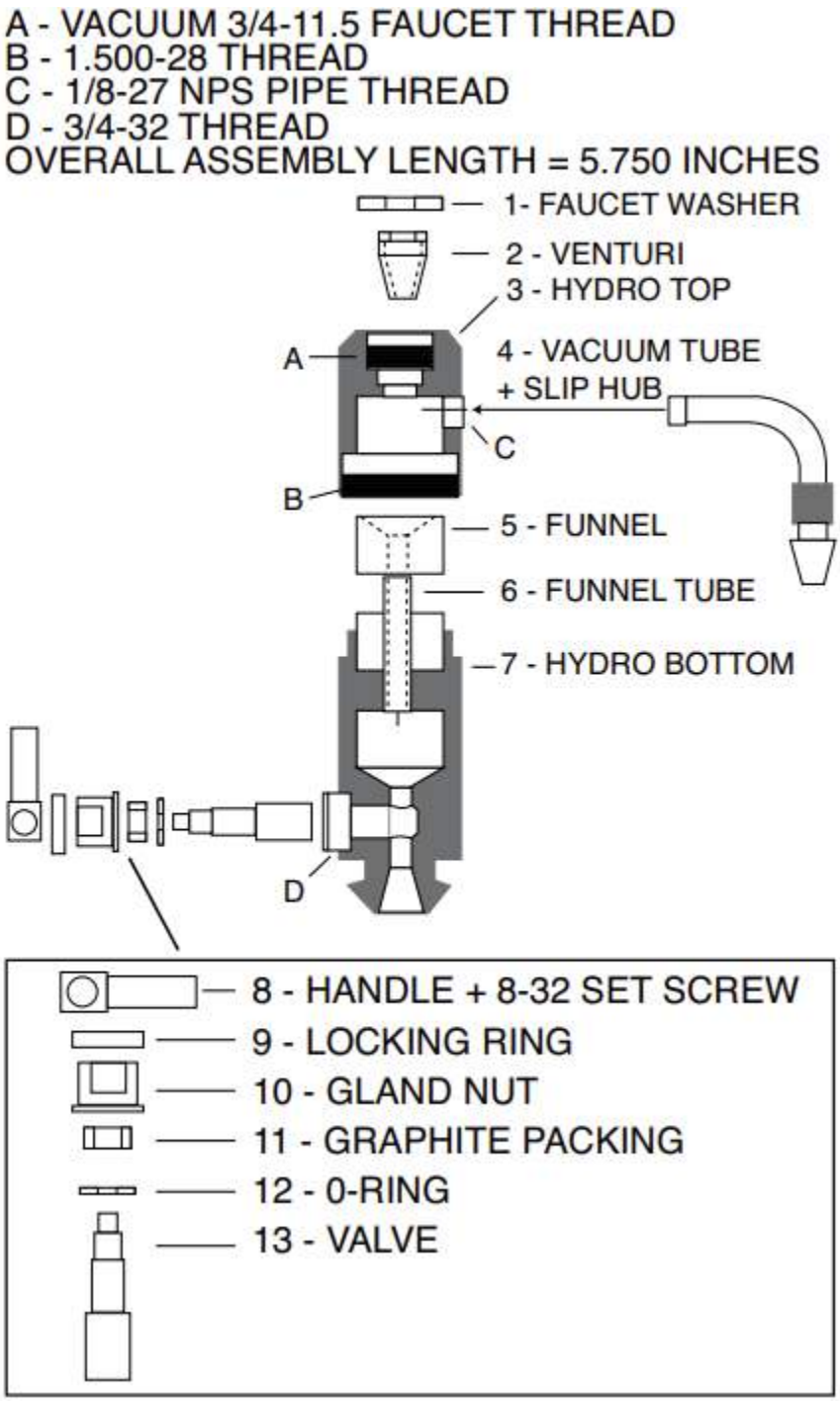



Figure 8-6 Hydro-Aspirator Diagram

# 9 APPENDICES

## 9.1 Spare Parts & Consumables

### 9.1.1 Spare Parts

| Mechanical Part Description | Mopec # | Use(s) |
|---|---|---|
| Perforated Grid Plate | C-1003-A | Acts as a workstation space above sink and allows for fluid drainage |
| **Plumbing Part Description** | **Mopec #** | **Use(s)** |
| 1hp Disposal | BL800-B | Breaks apart physical waste to allow for drainage |

### 9.1.2 Consumables

| Part Description | Mopec # | Use(s) |
|---|---|---|
| SaniPath Disinfecting Wipes | BE036 | Disinfection wipes |
| SaniPath Disinfecting Spray | BE047 | Disinfection spray cleaner |
| ClearSteel Stainless Spray | BE048 | Stainless steel cleaner and polish spray |
| SaniPath Disinfectant Foam Spray | BE045 | Disinfectant foaming spray |
| ClearSteel Stainless Wipes | BE039 | Stainless steel cleaner and polishing wipes |