



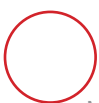
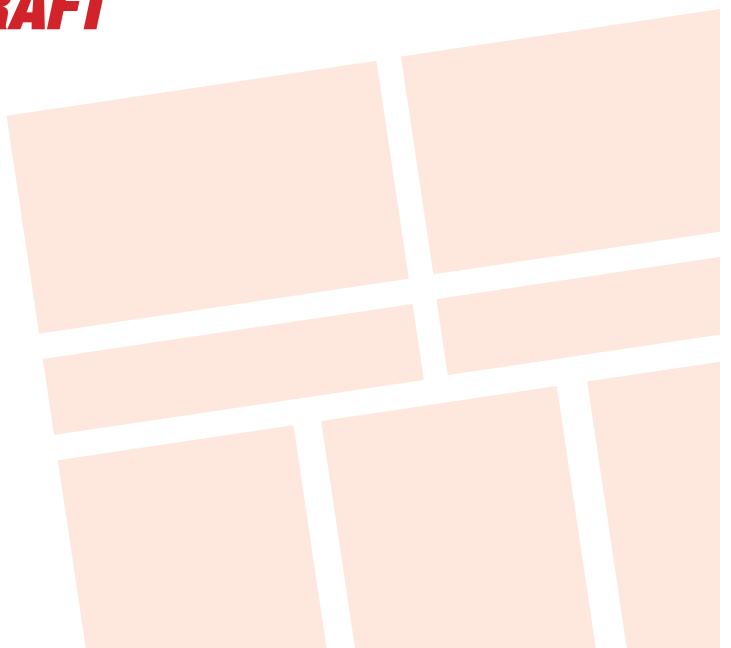
MODEL 1036-225
SMALL ANIMAL DOWNDRAFT
DISSECTING TABLE

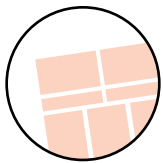
CAUTION

- Inspect unit and all components for any loosening that may have occurred during shipping •

ATTENTION

- Review entire manual before starting assembly





It is important that the information provided in this manual is observed. These instructions should be read carefully and observed fully before installation and initial operation.

WARNING

It is crucial that any work performed on Mortech Mfg. Inc. manufactured items are carried out exclusively by skilled professionals who have the respective training. Improper use, maintenance, parts and service, or modification to the equipment may cause injury and/or damage. Use and maintain the equipment only for the purpose described in this manual. Use only prescribed approved parts and service. Use the equipment only as designed by Mortech mfg. Inc.

BLOODBORNE DISEASE NOTICE

To reduce the risk of exposure to bloodborne diseases such as HIV-1 and hepatitis when using the equipment, follow the disinfecting and cleaning instructions in this manual.

OPERATING SKILLS AND TRAINING SKILLS

Operators using the equipment needs

- ☐ A working knowledge of necessary procedures.
- ☐ The ability to carry out necessary service procedures.
- ☐ A complete understanding of the procedures described in this manual.

TRAINING

- ☐ Be trained on the use of the equipment.
- ☐ Read the manual
- ☐ Practice with the equipment before using it in regular service.
- ☐ Be tested on their understanding of the equipment operation.
- ☐ Record their training.

BEFORE USING THE UNIT

Personnel working with this unit needs to read this manual. Assemble of the unit following instructions, and perform any pre-service checks to confirm the units operates properly.

INSPECTING THE UNIT BEFORE USE

Please take time to inspect all shipment prior to signing delivery ticket. If concealed damage is discovered, save the carton and immediately contact carrier agent to initiate claim of damage.

BE SURE TO CHECK

- Are all components present?
 - Do the moving parts operate smoothly?
 - Is unit draining properly?
 - Are all nuts, bolts, and pins secured in place?
- If unit has an issue contact customer relations.

INSTRUCTION FOR HANDLING

Adhere to state and/or local certification and regulations for operation of forklift and/or pallet jack. Cargo is extremely heavy, be sure to have the necessary manpower as well as equipment to successfully unload shipment from truck. We recommend a forklift and/or pallet jack with the capacity to lift up to 2000 lbs. to remove cargo from truck.

The forklift can be used to unload receiving products safely by placing the load on the floor, maneuvering the forklift into position, tilting the mast forward to vertical position so the load will be level, lowering the load, and smoothly backing away without dragging. Once cargo is unloaded, positioning unit for installation will once again require a forklift. Read all manual and note on installation of the unit before installing.

The pallet jack can be used (with a loading dock and maneuverability on and off the transport vehicle) to unload receiving products safely. Maneuvering the pallet jack into position (in the appropriate position within the pallet), lifting the pallet then driving the pallet jack off the truck and safely into the place of installation.

Range of Environmental Condition

Mortech Mfg. Inc. equipment shall be placed in a controlled environment (housing or housed unit) hindering the weathering effects on the installed units. The units will have minimal corrosive and eroding factors that can break down the stability and operation of Mortech's equipment. The impact on the unit by the operator utilizing water or corrosives in the medical procedures can be controlled and responsibility for the cleaning and maintenance placed upon that person. The effects of anthropogenic (man-made) gasses on the environment, such as carbon dioxide (CO₂) that will be omitted from the unit should be minimal.

Due to continuous innovation and product development this installation guide is subject to change without notice.

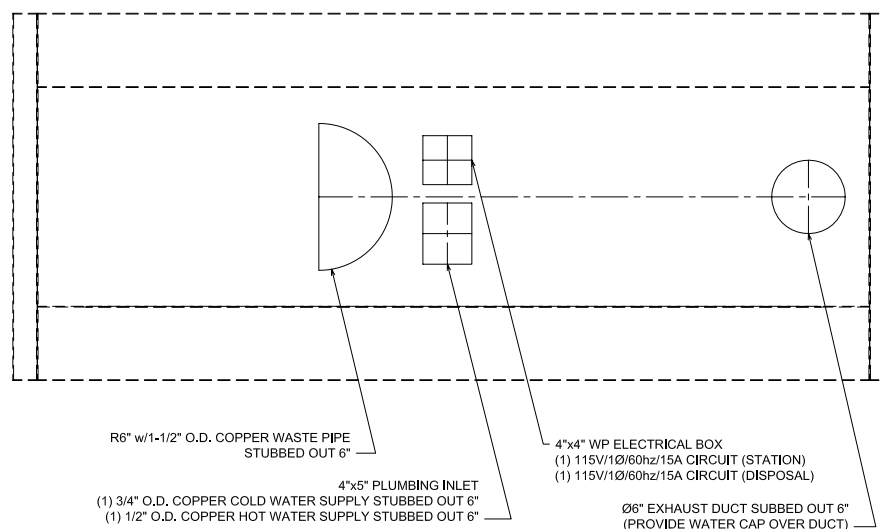
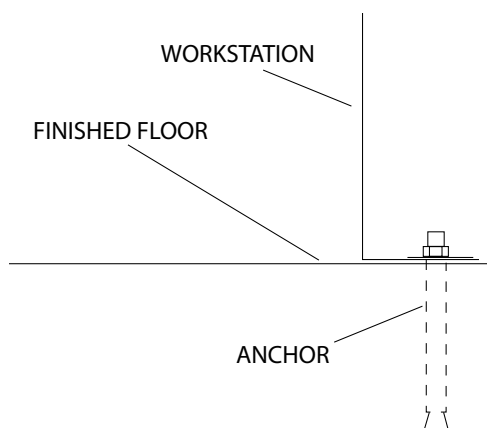
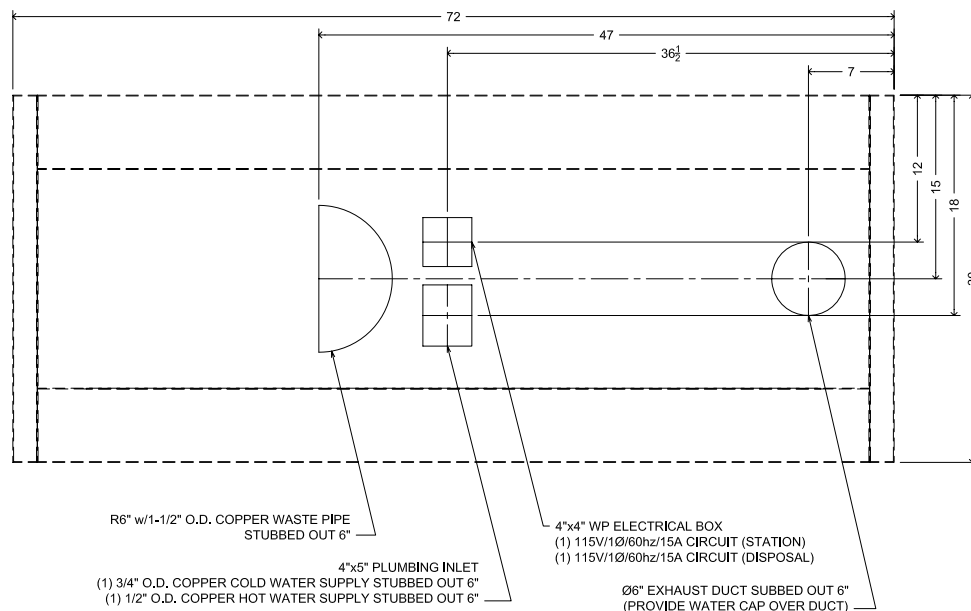
Please save these instructions for later use.

1036-225 Small Animal Downdraft Dissecting Table

Installation

UTILITY REQUIREMENT NOTES:

- 1: FLUSH LINES CLEAR BEFORE CONNECTING TO STATION.
- 2: PLUMBER TO PROVIDE SHUT OFF VALVES FOR WATER CONNECTIONS AND P-TRAP FOR DRAIN.
- 3: PROVIDE 60-65 lb. WATER PRESSURE AND 4 GALLONS PER MINUTE OF FLOW FOR PROPER OPERATION OF HYDRO ASPIRATOR.
- 4: ELECTRICIAN TO PROVIDE LIQUID TIGHT JUNCTION BOX AND CONDUIT CONNECTIONS PER LOCAL CODES.
- 5: EXHAUST REQUIREMENTS: PROVIDE 400 cfm @ 0.25 w.g.



INSTALLATION INSTRUCTIONS

PREPARING THE BUILDING FLOOR WHERE UNIT IS TO BE PLACED

Levelness of the unit floor is very important. Please make sure you place the unit on level floor, especially for units without casters. If the floor is not level, the box may not set level causing possible door closing problems. You can use shims under the box to level the box on an uneven floor.

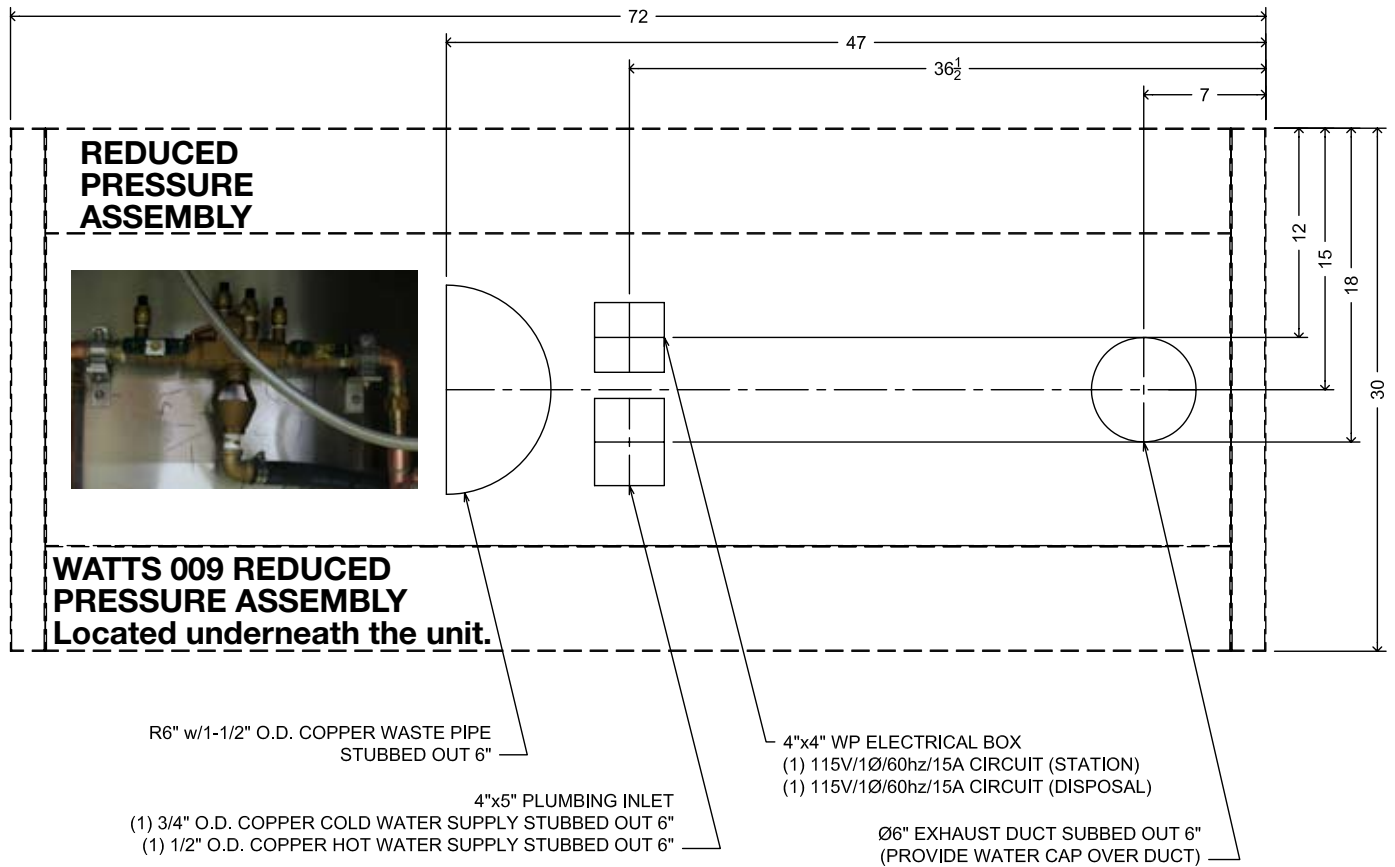
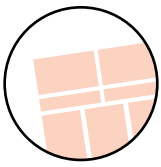
ANCHORING THE UNIT

Step 1. Verify all utility rough- ins and project specifications that have been supplied for your location. Drawings from Mortech for utilities are provided with the submittal packet information. Utilities can include: water lines, electrical, etc.

Step 2. Verify what type of floor has been provided for mounting. Use appropriate for the project flooring.

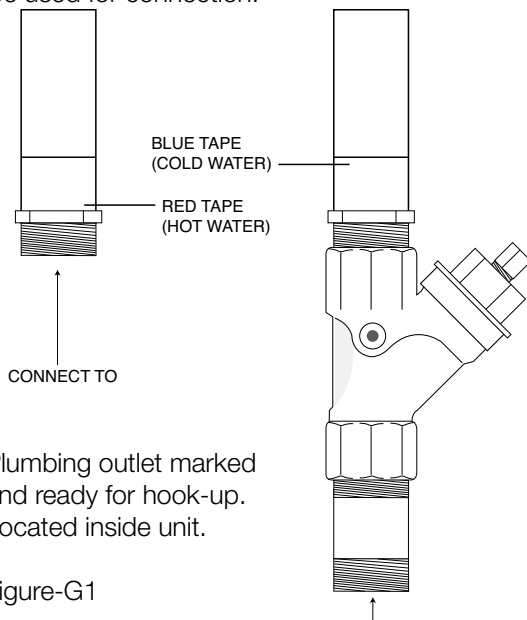
Step 3. Some stations are large and heavy so it is best to use a mechanical lift to maneuver the station into position. Make sure the unit is resting level on the fork arms. Sometimes a fork extension will be necessary. (Level table before anchoring) Lower into position until the unit fully rest in the location desired.



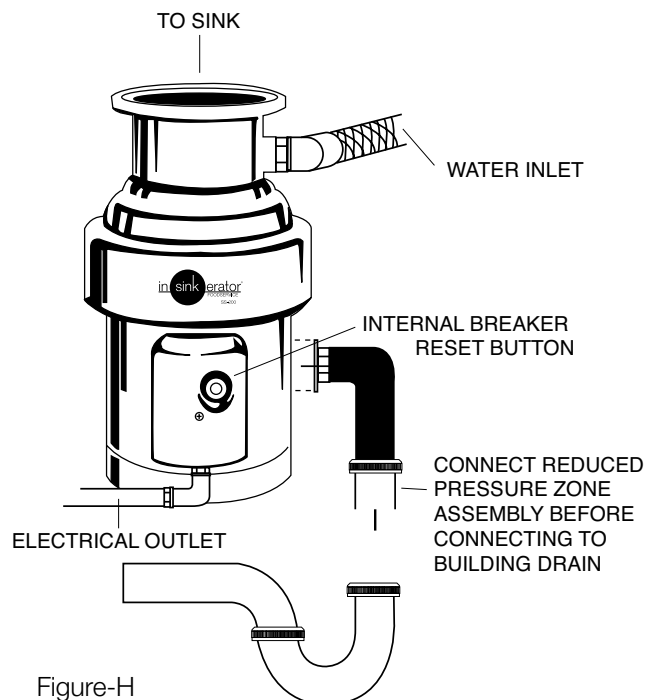


PLUMBING CONNECTION INSTRUCTIONS

STEP 1: (Refer to Figure-G) Flush out all water lines prior to connection. Debris may be in the lines from construction process. Install shut off valves on each water line. Lines are clearly marked RED for hot and BLUE for cold. (Refer to Figure-G1) The station is provided with a single point connection for hot and cold water. A typical flex line can be used for connection.



Step 2: Connect drain line to sink basin or disposal unit, depending on the option provided. (Refer to Figure-H)
See disposal manufacturers manual for more information



**1036-225 Small Animal Downdraft
Dissecting Table**

Electrical

PLUMBING CONNECTION



ELECTRICAL CONNECTION INSTRUCTIONS

Step 1: (Refer to Figure-I) Connect electrical lines from station to building. Units are provided with watertight conduit lines for connection. All units are internally wired so connecting these lines will bring power to all electrical items on the station.

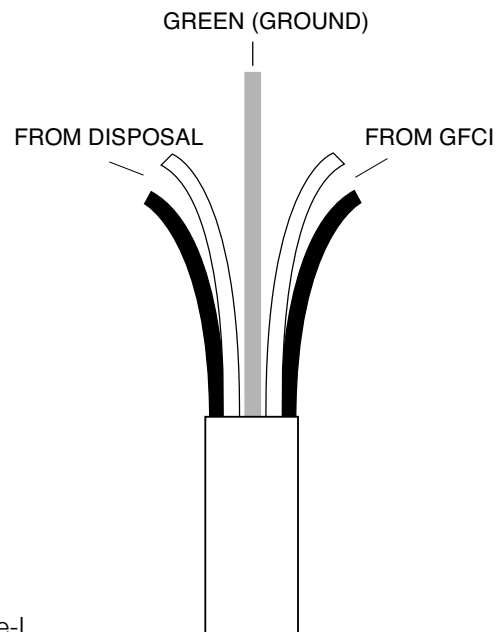
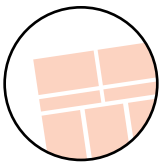


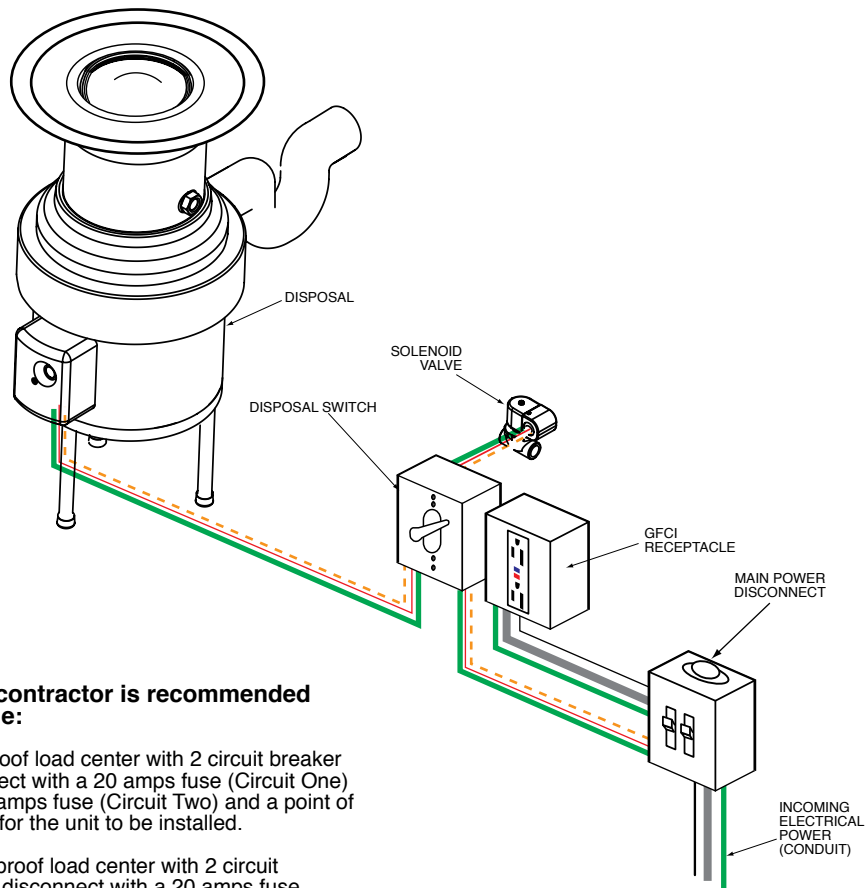
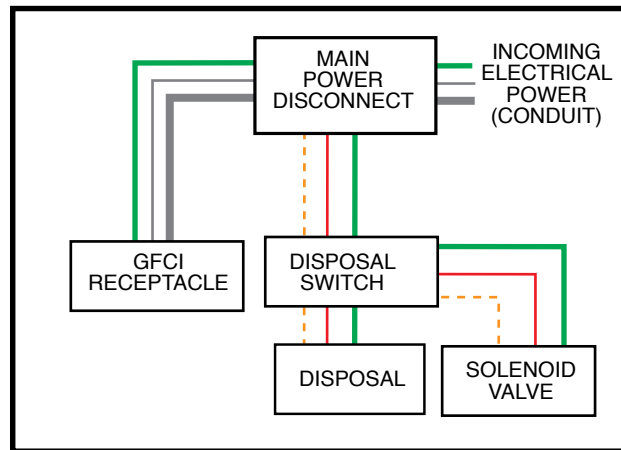
Figure-I





1036-10 ELECTRICAL CONNECTION

— BLACK
— WHITE-NEUTRAL
— GREEN-GROUND
— RED
- - - WHITE-NEUTRAL



General contractor is recommended to provide:

- Waterproof load center with 2 circuit breaker disconnect with a 20 amps fuse (Circuit One) and 15 amps fuse (Circuit Two) and a point of contact for the unit to be installed.
- A waterproof load center with 2 circuit breaker disconnect with a 20 amps fuse (Circuit One) and 15 amps fuse (Circuit Two) will be attached to the unit itself. Then connected to the point of connection provided on installation site.

Circuit One

Disposal units
(.5 hp, 8.4 amps)
(.75 hp, 10.0 amps)
(1 hp, 11.6 amps)
(2 hp, 17.4 amps)

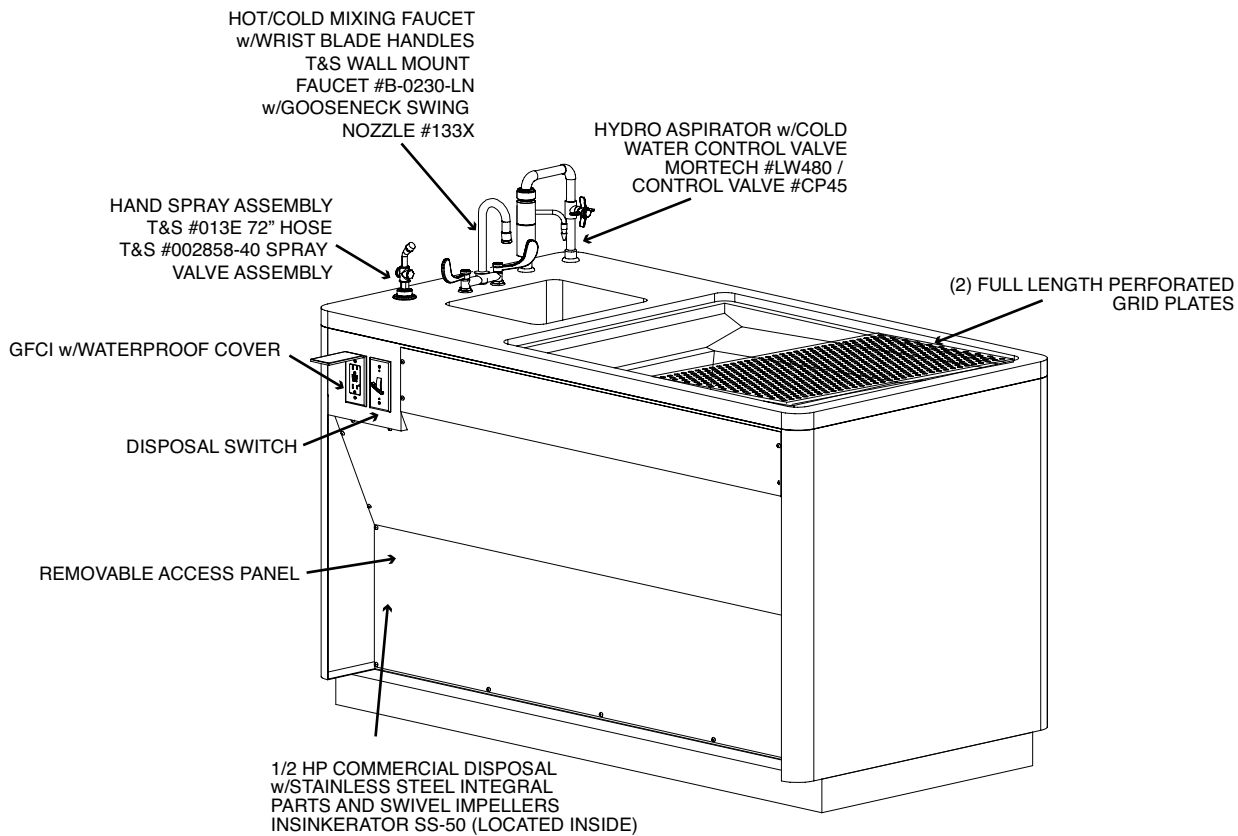
Solenoid-.05 amps

Circuit Two

GFCI

1036-225 Small Animal Downdraft Dissecting Table

Parts listing



TROUBLESHOOTING

Mixing faucet leaking

- Contact plumber to diagnose problem
- Replace faucet gasket seals

Sink not draining

- Check for debris in sink area
- Contact plumber to diagnose and clear drain if problem persists

Rust developing

- Check for standing water in rust area remove standing water
- Check for non stainless metals left on rust area
- Follow rust removal instructions

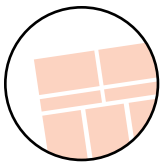
Aspirator not functioning

- Check for adequate water pressure min. -60 lbs. psi
- Check for proper water flow through the unit 4 gallons per minute
- If above two are adequate, disassemble unit and check for debris causing a clog in the unit.
- Call Mortech customer service if problem persists

Disposal not functioning

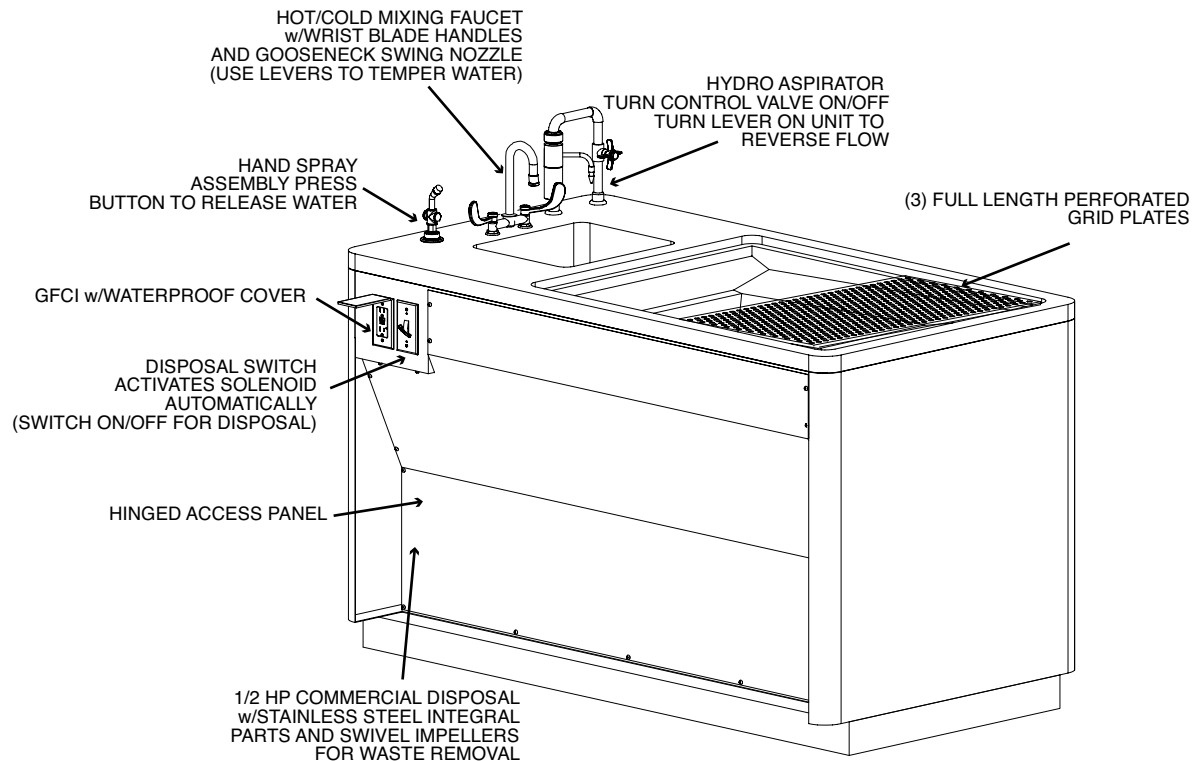
- See troubleshooting in Manufacturer Literature provided





Parts listing

1036-225 Small Animal Downdraft Dissecting Table



STANDARD DESIGN FEATURES

- Standard size: 32 in./81 cm. wide x 60 in./152 cm. long x 36 in./91 cm. high
- Type 304 stainless steel construction
- Heliarc-welded seams and joints, ground and polished to match adjoining surfaces
- Radii on all inside and outside corners for easy cleaning
- Hydro-aspirator with cold water control valve, nozzle, 10 ft./3 m. of flexible hose and vacuum breaker
- Mixing faucet with gooseneck spout and wrist blade handles
- Heavy-duty 1/2 hp commercial disposal with switch
- Large single compartment sink basin, 14 in./35 cm. x 12 in./30 cm. x 8 in./20 cm. deep
- (2) Perforated dissection grids
- Rapid and positive drainage
- Removable access panel
- Waterproof GFCI electrical outlet
- Plumbing and electrical lines factory installed and required only single

point connection at the project location

- Downdraft exhaust provided across entire work area
- Unit can be sized per your project requirements

OPTIONAL FEATURES

- Heavy-duty commercial disposal (3/4, 1 or 2 hp)
- Table end rinse with cold water control valve and vacuum breaker
- CO₂ valves/oxygen valves/vacuum valves/compressed air valves
- Emergency eye wash
- Centimeter or inch markings
- Type 316 stainless steel

Dissecting Table

Digital Scale

The Ohaus Compact Scale is ideal when cost matters and dependable results are a must. This uniquely designed scale is useful in a wide variety of applications, more than any other scale in its class. Easy operation, long battery life, and great performance make this product a truly remarkable value.



Scale Pole and Mounting Bracket

Stainless steel scale pole with mounting bracket for use with standard hanging autopsy scales. Pole can swivel left to right and includes locking knob to keep in desired position. Can be positioned to left, right or center of station depending on your preference.



Raised Dissecting Platform

Model LW380

Size in Inches 24 x 17 x 14

Fabricated entirely of polished stainless steel. Heavy gauge material provides a very stable work surface.

Tray creased toward center drain. Drain has hose attachment to route flow to desired location. Height and width suitable for over the body placement.



Evidence Screen

Model LW485

The screen is designed to prevent evidence from being accidentally washed down the drain. It is fabricated entirely from perforated stainless steel with a stainless steel pull handle. It is designed for use in 3.5 inch diameter drains.



Removable Measuring Ruler

Anyone who works with metal will appreciate the simplicity and practicality of these flexible magnetic rulers. They simplify the jobs, but you'll reach for them often as you discover new uses! They're "hands free" when used on steel bodies or sheet metal, allowing you to make the most accurate measurements quickly.



Head Rest

LW390

Molded from chemical resistant plastic. Adjustable up to six positions. Reusable and easily cleaned with soap and water. Wider base legs allow for more table contact for added stability and less slippage.



Commercial Grade Waste Disposal Units

Units come standard with 1/2 hp disposal units. Facilities can upgrade to 3/4 hp, 1 or 2" disposal units. Units have all internal stainless steel components and swivel impellers.



Dissecting Boards

Dissecting Boards are manufactured from high density polyethylene which provides an excellent cutting surface. All top edges are chamfered and all bottom corners have a non-skid rubber bumper attached. Color is opaque white.

Size in Inches

24 x 18 x 0.75 thick
18 x 12 x 0.75 thick
20 x 15 x 0.75 thick
20 x 15 x 0.50 thick
Photo Blue Board

Order No.

LW385
LW386
LW387
LW389



IMPORTANT

SOME ACCESSORIES CAN ONLY BE PROVIDED AT THE TIME OF ORIGINAL ORDER.





1/2 H.P. DISPOSER MODELS

Heavy-duty disposer designed for continuous operation in restaurants, hotels, hospitals and cafeterias. Food waste including steak bones is quickly and efficiently removed with this labor-saving, self-cleaning, environmentally sound disposer.

SPECIFICATIONS

- **Grind Chamber:** Corrosion Resistant Stainless Steel
- **Mounting:** 3/4" (19.1 mm) rubber mounting above grinding chamber isolates sound and eliminates vibration. Mounting is enclosed in chrome plated covers for sanitation and appearance.
- **Motor:** 1/2 HP Induction Motor, 1725 RPM, totally enclosed to provide protection against outside moisture. Controlled power air flow cools motor for efficiency and longer life. Built-in thermal overload protection.
- **Cutting Elements:** Stationary and rotating shredding elements made from cast nickel chrome alloy for long life and corrosion resistance, designed for reverse action grinding.
- **Main Bearings:** Double-tapered Timken roller bearings provide a shock absorbing cushion.
- **Motor Seals:** Triple lip seal protects motor from water damage. Secondary spring-loaded oil seal provides double protection against water and loss of grease.
- **Finish:** All Stainless Steel and Chrome plated. Paint-free for lasting sanitation.
- **Warranty:** 1 year full warranty from date of installation.
- **A Disposer Package Includes:** 1 Mounting/Bowl Assembly, 1 Electrical Control, 1 Syphon Breaker, 1 Solenoid Valve, and 1 Flow Control Valve. The standard Flow Control Valve will be sent with the unit unless the optional valve is specified.



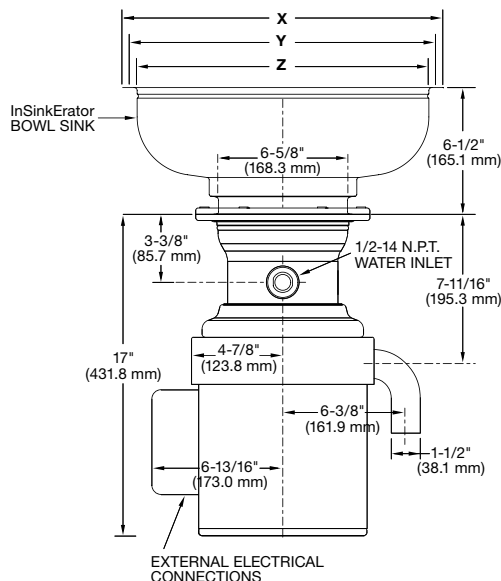
DIMENSIONS

IMPORTANT: Use dimension chart below for adaptor height in place of InSinkErator bowl sink height when mounting directly to a sink.

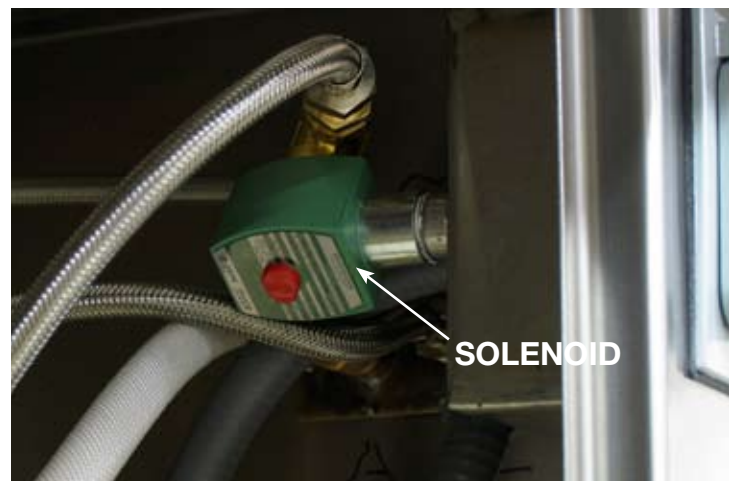
Adaptors	X	Y	Z	Height
No. 5	Fits Standard Sink Opening: 3-1/2" - 4" (88.9 mm - 101.6 mm)			2-3/4" (69.9 mm)

NOTE:

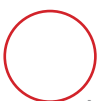
- Adaptors are available upon request for all competitor sink bowls or cones.
- Please have sink bowl/cone type with the necessary dimensions when ordering adaptors.



Disposal Switch
(shown right) allows you
to activate the Solenoid
(shown below) injecting
the flow of water to
the disposal.



ASCO Red Hat #8210G073 Solenoid Solenoid is located underneath unit.



SPECIFICATIONS

GRIND CHAMBER

Corrosion Resistant Stainless Steel

MOUNTING

3/4" rubber mounting above grinding chamber isolates sound and eliminates vibration. Mounting is enclosed in chrome plated covers for sanitation and appearance.

MOTOR

The Induction Motor is totally enclosed to provide protection against outside moisture. Controlled power air flow cools motor for efficiency and longer life. Built-in thermal overload protection.

CUTTING ELEMENTS

Stationary and rotating shredding elements made from cast nickel chrome alloy for long life and corrosion resistance, designed for reverse action grinding.

MAIN BEARINGS

Double-tapered Timken roller bearings provide a shock absorbing cushion.

MOTOR SEALS

Triple lip seal protects motor from water damage. Secondary spring-loaded oil seal provides double protection against water and loss of grease.

FINISH

All Stainless Steel and Chrome plated. Paint-free for



Heavy Duty Disposal

INSINKERATOR

DIVISION OF EMERSON ELECTRIC COMPANY

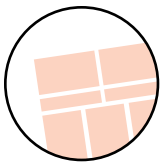
4700 21st STREET

RACINE, WI 53406 TEL: 414 554-5432 1-800-558-5712

FAX: 414 554-8917

For additional information, see Commercial Product Information Binder.





Heavy duty disposal

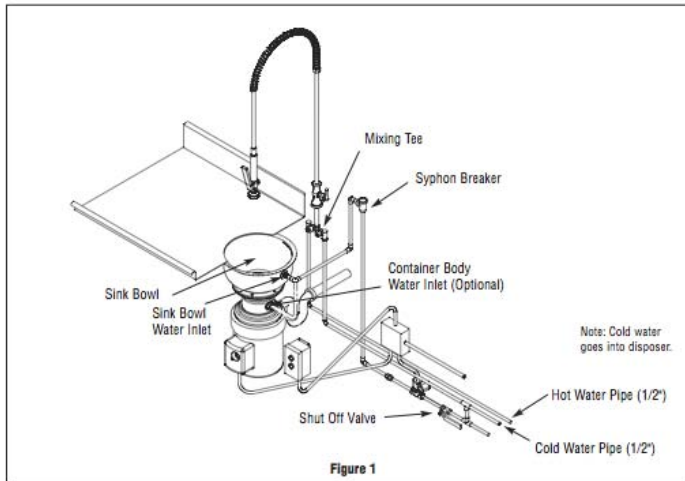
Insinkerator Heavy Duty Disposal

The Insinkerator commercial food waste disposer is UL Listed when installed in conjunction with Insinkerator mounting adapters and controls (see Figure 1 below for a typical installation).

Important— These installation instructions are for the benefit of the installing contractor. Insinkerator and/or Insinkerator Factory Authorized Service Centers do not make original installations. For technical information not covered in these instructions, contact the supplier, an Insinkerator Field Sales Representative, or the Insinkerator Factory in Racine, Wisconsin at 1 (800) 558-5712 CST 7:30 am - 4:30 pm.

CLEAN THE DRAIN LINE

With a drain line auger, clear away all hardened waste material in the horizontal drain pipe running from the drain trap to the main waste line.



TYPICAL INSTALLATION

A typical commercial disposer installation incorporates the following connections (see Figures 1 above and 9 on next page):

- Water shut off valve
- Syphon breaker
- Solenoid valve
- Start/stop switch
- Sink or trough
- Flow control valve

REQUIRED TOOLS/MATERIALS

The following items are needed to install the disposer:

- Screwdriver
- Adjustable wrench
- Pipe wrench
- Wire nuts
- 7/16" nut driver

The following items may be needed to install the disposer:

- Plumbing putty
- Hacksaw
- Drain auger

OPERATING INSTRUCTIONS

Operating the Disposer

1. Make sure there are no foreign objects in the disposer grind chamber. Do not pre-load the disposer with food waste prior to starting.
2. Push the start button on the control switch. The disposer will run and water will flow into the disposer.
3. Feed food waste into the disposer in a steady, continuous flow.
4. When all food waste is flushed away, push the stop button on the control switch.

Grinding Tips

- Ensure that a steady stream of cold water runs into the disposer while it is operating (see Table 2 for the recommended cold water flow).
- Do not overload the disposer or turn it off with food waste inside the grind chamber. Run the disposer and water for three minutes after the final load to flush away all food waste.

WARNING

Personal Injury

- Food waste disposers are designed to grind and dispose of normal food waste. Inserting materials or items other than food waste into the disposer could cause personal injury and/or disposer damage.
- To reduce the risk of injury from materials that may be expelled from the disposer grind chamber, ensure that the disposer baffle is properly installed.
- To prevent the ejection of food waste and to keep foreign material out of the grind chamber, replace the splash baffle when it becomes worn.

Fire Hazard

To minimize the possibility of fire, do not store flammable items near the disposer. Do not use or store gasoline or other flammable liquids near the disposer.

Electric Shock

- Disconnect the electrical supply before servicing the disposer.
- Ensure the disposer and controls are properly grounded.

PLUMBING

Drain Line Connections

To allow easy access to overload reset button, the disposer plumbing should be connected with the electrical control box facing the operator.

When connecting the drain line, place the "P-trap" as close to the disposer outlet flange as possible. Do not connect the drain line to a grease trap, interceptor, or drum trap.

All horizontal runs should be as short as possible, with a minimum fall of 1/4-inch per foot.

Property Damage

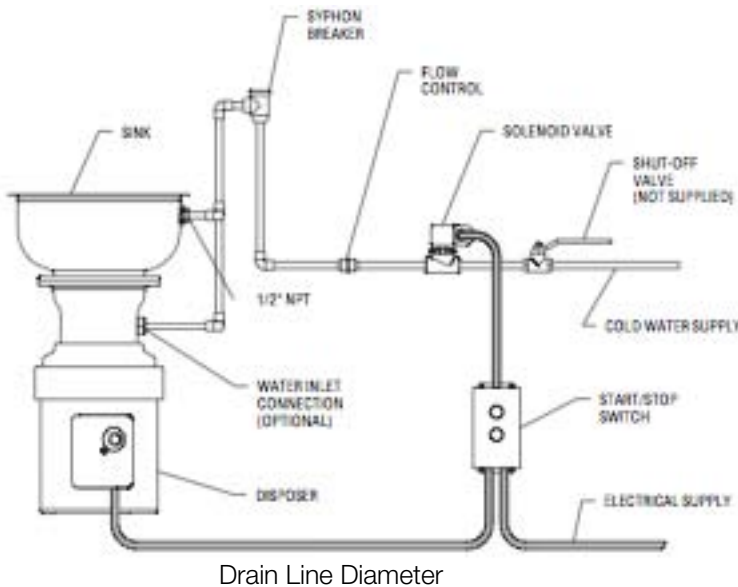
These plumbing instructions were written for an experienced competent installer. If the installer is not experienced in plumbing installation, Insinkerator recommends that competent professional assistance is sought. Damage to the disposer or accessories as a result of improper installation is not covered under warranty. All installations must comply with local plumbing codes.

Water Supply Connections

When connecting the disposer to the incoming water supply, use as few elbows and tees as possible. Connect to the cold water line only. All water line fittings are 1/2" NPT except the sink bowl nozzles (1/2" compression). Install the flow control valve, water solenoid valve, and the syphon breaker according to the direction of the flow arrows marked on each valve body (see Figure 9).

NOTE: A syphon breaker must be installed above the sink flood plane per local plumbing codes.

Table 2: Recommended Cold Water Flow and



Disposer	Water Flow GPM (Liters)	Drain Line Diameter
SS-50	3 (11)	1 1/2"
SS-75	3 (11)	1 1/2"
SS-100	5 (19)	1 1/2"
SS-150	7 (26)	2" NPT
SS-200	7 (26)	2" NPT

Routing Water Flow

- In a trough system, route all water flow to the end of the trough to flush food waste.
- In a sink bowl system with an SS50 to SS-100 (3-5 GPM), route all water through the sink bowl (see Table 2).
- In a sink bowl system with an SS-200 (7 - 10 GPM), route water through the sink bowl and the disposer body inlet.

ELECTRICAL

WARNING - Electrical Shock

- Turn off the electrical supply to the disposer before servicing. Test the circuit with a volt meter or circuit tester to ensure the power is off.
- All control centers and disposers must be grounded.
- A properly fused disposer control (with a marked "off" position) that disconnects all ungrounded supply conductors must be installed at the electrical supply source.

Personal Injury/Property Damage

If the electrical installer is not experienced in electrical installation, we recommend seeking competent professional assistance. Disposer or accessory damage due to improper installation is not covered under warranty. All installations must comply with local electrical codes.

Property Damage

- Disposers shipped from the factory are not wired for a specific voltage. Refer to the motor connection wiring diagram in the terminal box for voltage instructions.
- Ensure the disposer motor voltage and phase match that of the electrical supply. Electrical Shock. Be careful not to pinch or damage the electrical wires when installing the terminal box.

Electrical Connections

To connect the disposer to the electricity:

1. Remove the screw in the center of the disposer terminal box.
2. Pull the terminal box out of the stainless-steel trim shell.
3. Connect an electrical conduit connector to the hole in the bottom of the exposed wiring compartment.
4. Connect the ground wire to the ground screw.
5. Connect the incoming wires to the motor leads. Make sure the wiring connections are the same as those on the motor control wiring diagram for your specific control.
6. Reinstall the terminal box cover on the trim shell.

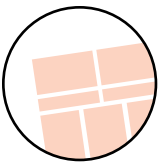
WARNING - Electrical Shock

Be careful not to pinch or damage the electrical wires when installing the terminal box

NOTE: Complete electrical information is located inside the disposer terminal box.

7. Test the disposer to ensure the cutting elements revolve and the water flows automatically. Make sure the disposer is securely mounted and does not leak from any of the connections.





INSTALLING THE DISPOSER

WARNING

Personal Injury

- For safe operation, install the disposer in compliance with the minimum distance.
- Moving shredder parts may cause serious injury if a hopper or cone is not properly installed. Figure 2: Distance from Table Top to Mounting Flange

Required Mounting Area

A = The minimum required distance from the table top or trough to the mounting flange is 6 inches for standard body disposers (as specified by UL) (see Figure 2).

Insinkerator recommends a minimum countertop thickness of 16 gage stainless steel.

STANDARD INSINKERATOR MOUNTINGS

5 MOUNTING ASSEMBLY

Follow these instructions to install a #5 sink flange to a standard 3 1/2 - 4 inch sink opening.

- Unscrew the three backup screws (6) until they are flush with the upper mounting flange (5) surface. Pry the retainer ring (7) free from the strainer flange (2) with a screwdriver and separate all mounting assembly parts (2 - 7).

Adapter	SS-50	SS-75	SS-100	SS-150	SS-200
No. 5	X	X	X	X	X
No. 5 short	X	X	X	X	X
X= Approved O= Not Allowed					

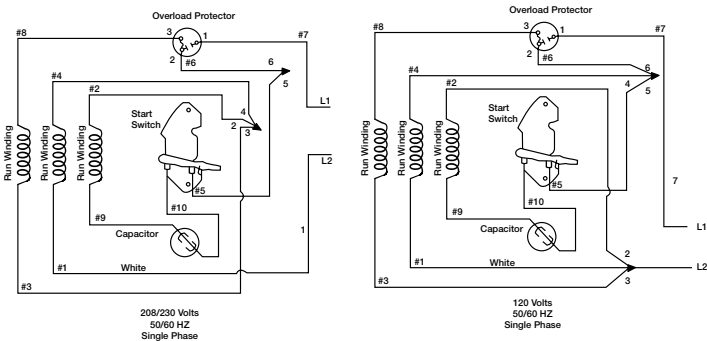
Table 1: Commercial Disposer/
Mounting Adapter Combinations S

- Form a 3/4" thick ring of top grade oil base putty around the sink opening (use non-hardening putty). Insert the strainer flange (2) into the sink opening and press firmly in place. Clean away any excess putty.
- From underneath the sink, place the strainer flange gasket (3), backup flange (4) - flat side up, and upper mounting flange (5) over the strainer flange and hold them up to the sink. Snap the retainer ring (7) into the groove on the strainer flange to hold the mounting parts in place.
- Tighten the three backup screws evenly until the backup flange draws snugly against the underside of the sink and the strainer flange is held securely in place.
- Place the body flange (9 - lugs upward) over the lip of the mounting flange (10) and fit the mounting gasket

- onto the lip.
- Place the mounting gasket (11) on the disposer body flange. Secure the mounting flange (10) to the disposer body flange with six screws (12) provided.
- Raise the disposer to the upper mounting flange (5) so the body flange (9) is positioned with the lugs to the right of the screws.
- While supporting the disposer, turn the body flange (9) to the right until all three lugs are engaged in the mounting flange (5). Swivel the disposer to align the discharge outlet with the drain trap. The disposer can be turned 360 degrees.
- Align the disposer to the plumbing connection and insert the service wrench into the left side of a lug and continue to turn the body flange to the right (approximately one quarter turn) until it locks onto the notches on the upper mounting flange.

NOTE: Special mounting instructions are included in the #5 Short Mounting Kit.

Wiring Diagrams



Electrical Connections

The electrical diagram is recommended for the most commonly used accessory combinations.

NOTES:

- All electrical connections must comply with local electrical codes.
- Pressure switches may be connected across the line at 5 horsepower or less.
- A time delay may only be used with a water solenoid valve.

DANGER

Property Damage

- Ensure that the control center voltage and phase match the disposer motor and electrical supply. Check name plates on disposers and control centers for voltage and phase specification.

- The disposer motor wiring connection is shown in the disposer terminal box.

DANGER

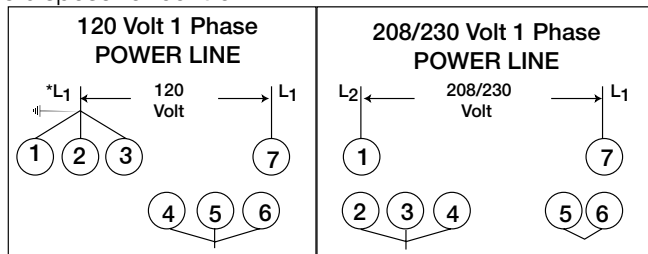
Electrical Shock

- Turn off all electrical supply to the disposer before attempting any work on it. Use a voltmeter or circuit tester to ensure power is off.
- Installation must conform to all local electrical codes.
- All control centers and disposers must be carefully and permanently grounded.
- A properly fused disconnect must be installed at the electrical supply source for the control center.

Property Damage

- Ensure that the control center voltage and phase match the disposer motor and electrical supply. Check nameplates on disposers and control centers for voltage and phase specification.
- The disposer motor wiring connection is shown in the disposer terminal box.

NOTE: Do not use this diagram to connect an optional reversing control. Refer to the diagram shipped with the disposer or control.



Do not wire the solenoid valve in series with the dispenser motor. Follow the wiring diagram shipped with the disposer.

When a grounded power input line is used as one of the supply lines it must be connected to the wire group containing lead #1

Commercial Disposer Limited Warranty

The Insinkerator Commercial disposers are warranted against defects in material and workmanship for one year from the date of installation. The warranty includes parts and labor, provided an Insinkerator Factory Authorized Service Center performs the service. This warranty does not apply if the failure is due to: faulty or improper electrical installation, faulty or improper plumbing installation, product abuse or misuse, accidental damage, grinding elements jammed by foreign objects, clogged drain lines, or an improperly sized unit (as specified by Insinkerator).

Commercial disposer accessories are included in this warranty only if they are included in the original disposer purchase package.

SINK MOUNTS

NO. 5 SINK FLANGE MOUNTING ASSEMBLY

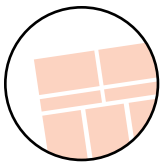
- 3 1/2" - 4" Sink Opening
- No Welding Required



SHORT NO. 5 SINK FLANGE MOUNTING ASSEMBLY

- 3-1/2" - 4" Sink Opening
- No Welding Required
- 2-1/2" shorter for limited space under sink





TROUBLESHOOTING

PROBLEM

POSSIBLE CAUSE

SOLUTION

The disposer will not start and water does not flow.

No incoming power.

Turn on electrical supply.

The disposer will not start but water flows.

The disposer overload protector is tripped.
The disposer is jammed.

Turn control to the off position and press the red reset button on the disposer.
Turn the control to the off position and

complete the following steps:

1. Insert dejamming bar (not supplied) slot down through the sink opening. Place the slot over one end of the raised bars found on the top of the rotating shredder.

2. Using an adjustable wrench or a pipe wrench for leverage, twist the dejamming bar back and forth to free the jam. The rotating shredder should revolve freely when the jam is released.

3. Remove all foreign material that caused the stoppage.

4. Allow the disposer to cool for 3-5 minutes after it stops running. Press the red reset button to reset the overload protector. Never strike the reset button with an object.

5. If the disposer remains inoperative after following these steps, contact the nearest Insinkerator Factory Authorized Service Center. You may obtain the telephone number of the Service Center nearest you by calling 1-800-558-5700.

The disposer motor stops while grinding, but water continues to flow.

The disposer is jammed.
The disposer overload protector is tripped.

See The disposer is jammed, above.

Turn the control to the off position and press the red reset button on the disposer. If the disposer was running, allow the unit to cool for 3-5 minutes before pressing the red reset button. Never strike the reset button with an object.

The water flows continuously before the controls are turned on.

Reinstall the water solenoid valve with the arrow on the valve pointing in the direction of the water flow.

Overload protector trips frequently.

Disposer is overloaded with food waste.

Do not overload disposer with excessive amounts of food waste. Troubleshooting for problems other than what is listed below should be performed by a qualified service person. Troubleshooting performed by untrained personnel could result in electrical shock or damage to the disposer. Disconnect power before servicing.

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 valve on valve body.

IMPORTANT: 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

WARNING: Turn off electrical power and depressurize valve before making repairs. It is necessary to remove valves from pipe for repairs.

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 operation, excessive leakage or noise will indicate that cleaning is required.

PREVENTIVE MAINTENANCE

1. Keep the medium flowing through the valve as free from dirt and foreign material as possible.
2. While in service, operate valve at least once a month to insure proper opening and closing.
3. Periodic inspection (depending on media and service conditions) of internal valves parts for damage and excessive



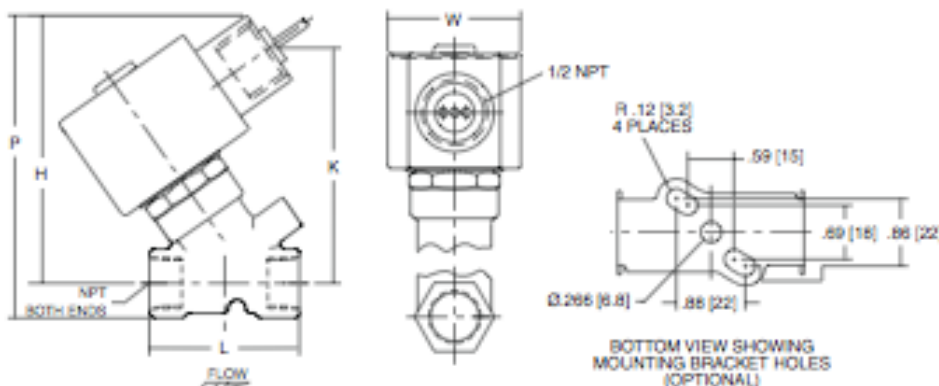
wear is recommended. Thoroughly clean all parts. Replace any parts that are worn or damaged.

COIL REPLACEMENT

Turn off electrical power supply and disconnect coil leads. Process in the following manner:

1. Remove retaining cap or clip, nameplate and cover.
- CAUTION:** When metal retaining clip disengages, it will spring upwards.
2. Remove spring washer, insulating washer and coil. Insulating washers are omitted when a molded coil is used.
 3. Reassemble in reverse order of disassembly paying careful attention to exploded view provided for identification and placement of parts.

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



SERIES 009

Reduced Pressure Zone Assembly - 3/4"

Sizes: 1/4" – 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 of 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 intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes 1/4" – 1" (8 – 25mm) shutoffs have tee handles.

Features

- Single access cover and modular check construction for ease of maintenance
- Top entry - all internals immediately accessible
- Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- Bronzebody construction for durability 1/4" – 2" (8 – 50mm)
- Ball valve test cocks — screwdriver slotted 1/4" – 2" (8 – 50mm)
- Large body passages provides low pressure drop
- Compact, space saving design
- No special tools required for servicing

Specifications

A Reduced Pressure Zone Assembly shall be installed at each potential health hazard location to prevent backflow due to backsiphonage and/or back pressure. The assembly shall consist of an internal pressure differential relief valve located in

azone between two positive seating check modules with captured springs 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 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 8th Edition†; ASSE Std. 1013; AWWA Std. C511; CSA B64.4. Shall be a Watts Regulator Co. Series 009.

†Does not indicate approval status. Refer to Page 2 for approved 1

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 3/4" – 2" (20 – 50mm) (LF models only)

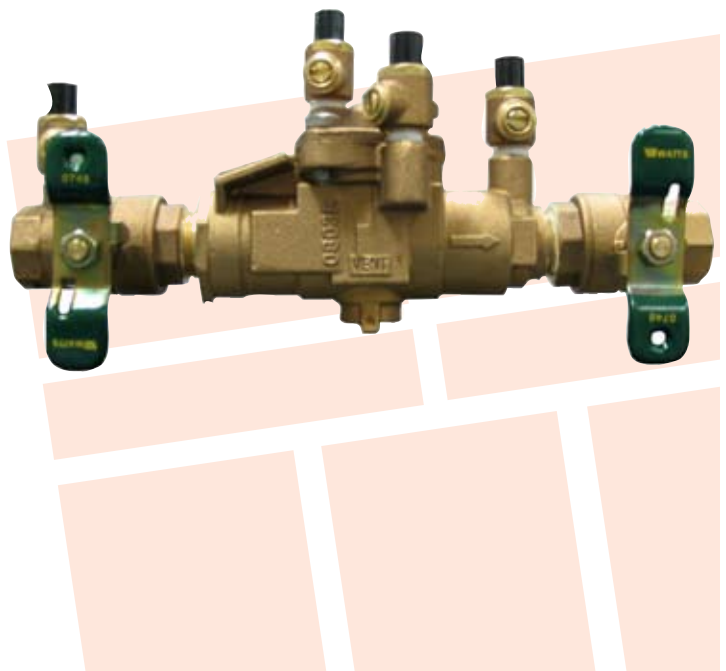
WATTS REGULATOR

USA: 815 Chestnut St., No. Andover, MA 01845-6098

www.wattsreg.com

Canada: 5435 North Service Rd., Burlington, ONT L7L 5H7

www.wattscanada.ca



GFCI RECEPTACLE

Installing and Testing

Step 1. TURN THE POWER OFF

Step 2:

Use the voltage tester to test the outlet to ensure that it is indeed off. Then strip about 3/4 inches of insulation from the wires so you will have a fresh section of copper to work with. Wrap the green wire under the green screw terminal and tighten it down securely. Connect the black wire to the copper terminal and the white wire to the silver terminal in the same manner.

Step 3:

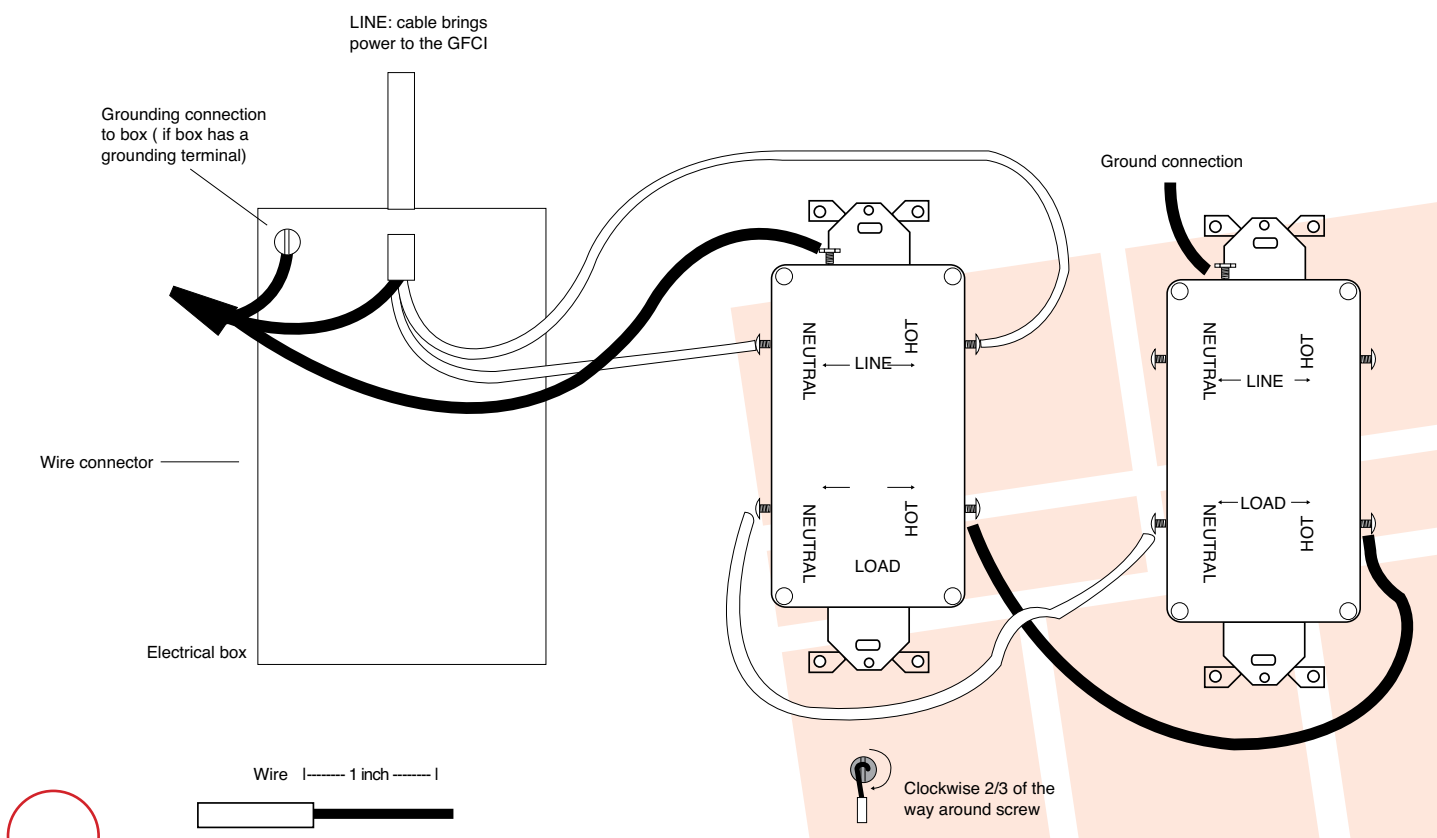
Use a wire nut to connect each of the wires from the GFCI receptacle to each of the wires coming from the wall box.

Step 4:

Gently push the wires back into the wall box and secure the GFCI receptacle to the box with the two included screws. Next, install the faceplate.

TROUBLESHOOTING

Turn the power OFF and check the wire connection against the appropriate wiring diagram. Make sure that there are no loose connections. Start the test from the beginning if you rewire any connections to the GFCI



Technical Specifications

LIQUID-TUFFTM

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 thicknesses 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 which are summarized in Table 1.

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 C22.2 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 Flexible Liquidtight 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)

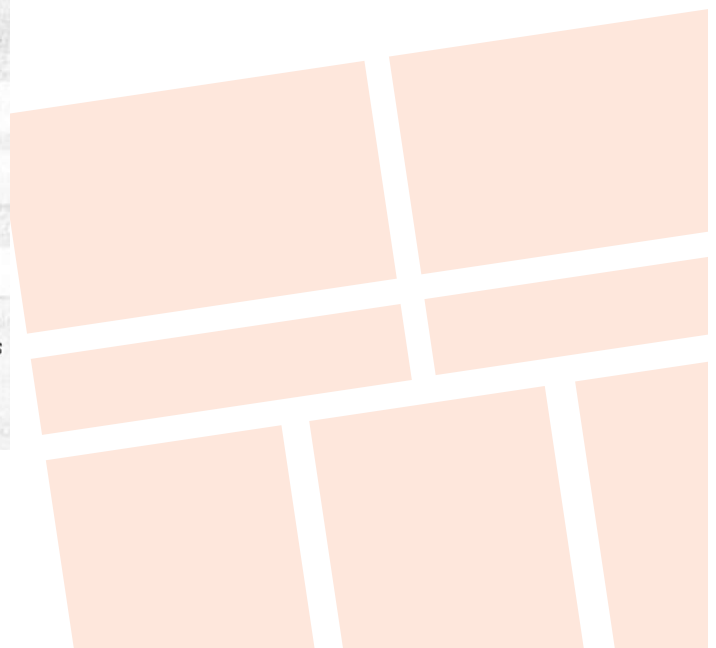
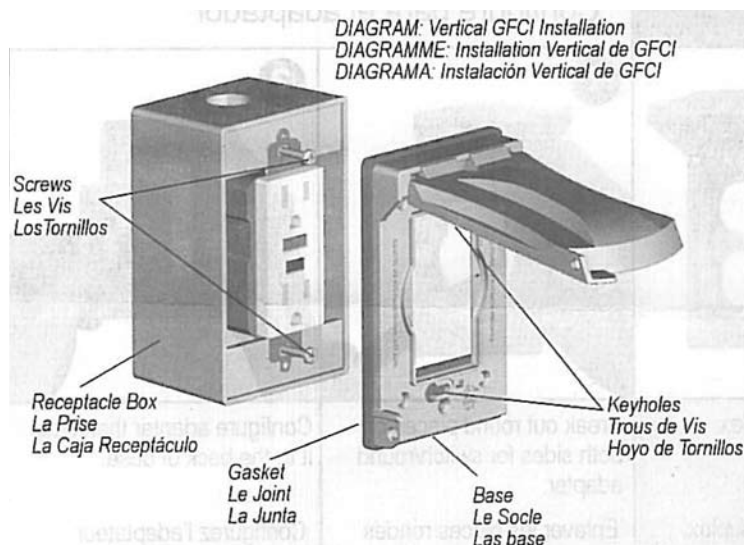


RECEPTACLE COVER

Type: Vertical

Color: Gray

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



**T&S B-0225-LN
WALL MOUNT FAUCET**

HOT/COLD MIXING FAUCET

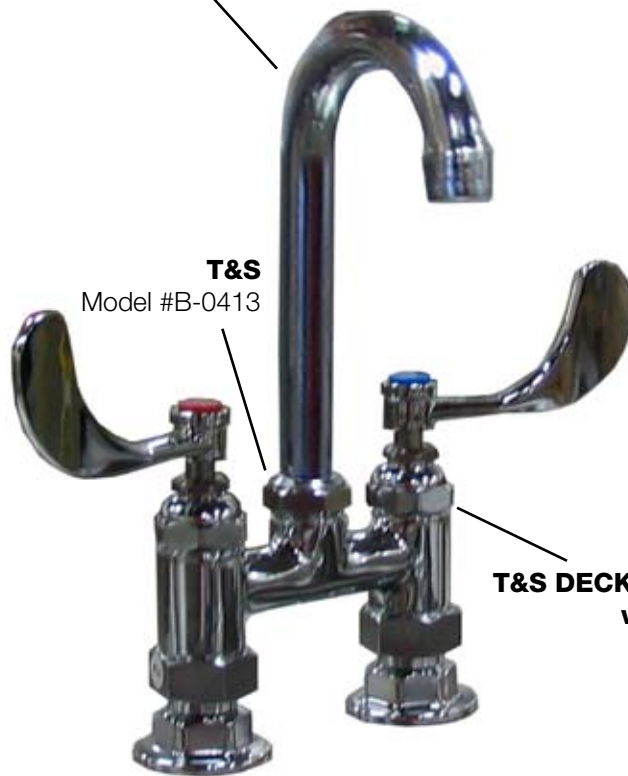
**T&S DECK MOUNT FAUCET
w/GOOSENECK NOZZLE**

Model #B-0225-LN

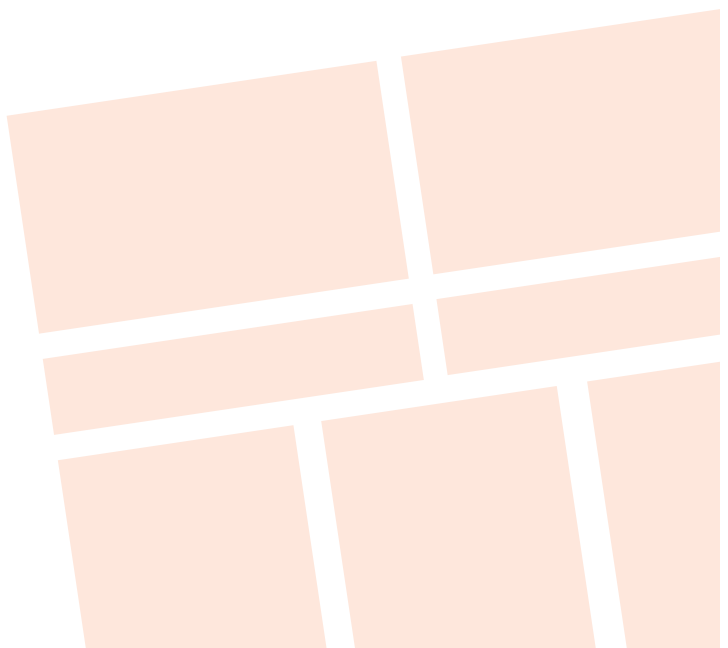
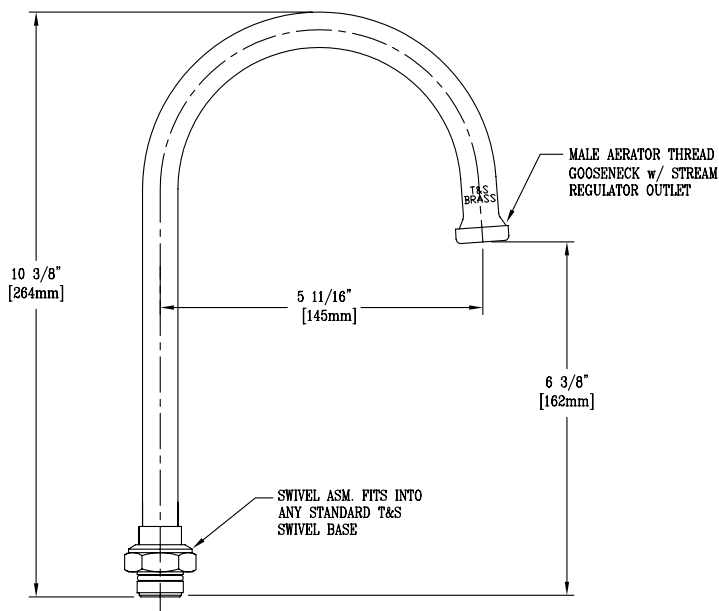
T&S

Model #B-0413

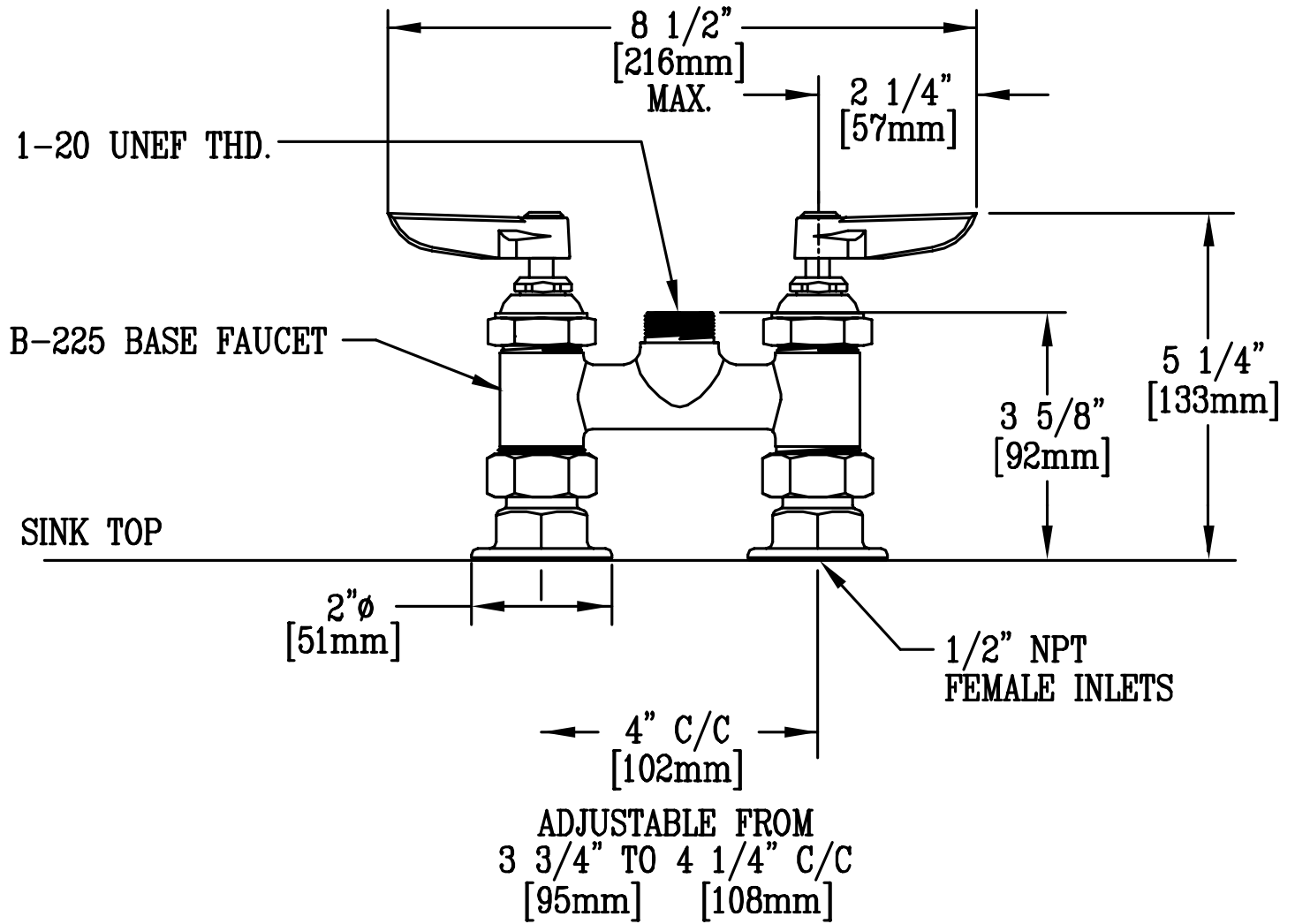
**T&S SWIVEL
GOOSENECK SPIGOT**
Model #133X



**T&S DECK MOUNT FAUCET
w/WRIST BLADES**
Model #B-0225-LN



Component Data



Wye-Pattern, Bronze Strainers

Sizes: 3/4" – (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

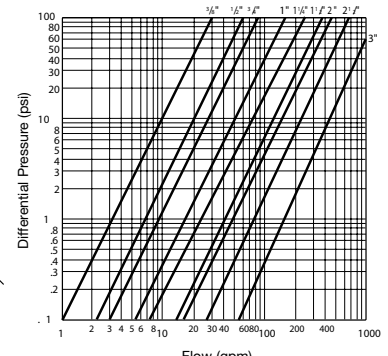
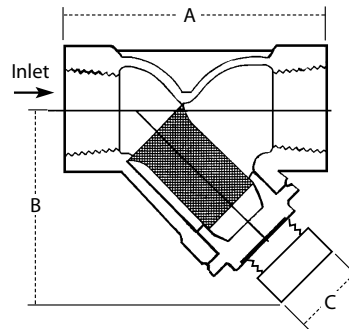
- Bronze body
- Wye-pattern
- Tapped retainer cap
- Closure plug
- Special flared screen opening on upstream end to provide unrestricted flow through the strainer

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) @ 210oF (99oC); 125psi (8.6 bar) WSP @ 353oF (178oC) for sizes 2 1/2"-3" (65-80mm). Strainer shall be a Watts Regulator Company Series 777SI (threaded ends) or S777SI (solder ends).

Materials

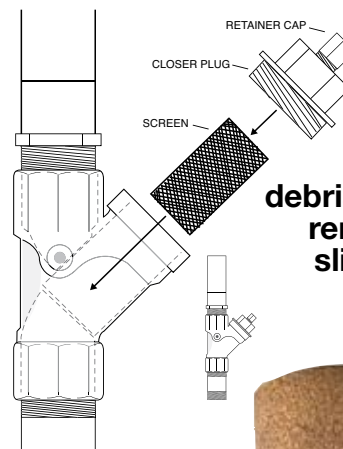
Body: Bronze
 Retainer Cap: Brass
 Plug: Bronze
 Gasket: NBR
 Standard Screen: #20 mesh, 304 stainless steel D



Flow curves show (gpm) and pressure drop (psig) through Watts Series using standard 20 mesh screen.

Dimensions 777SI

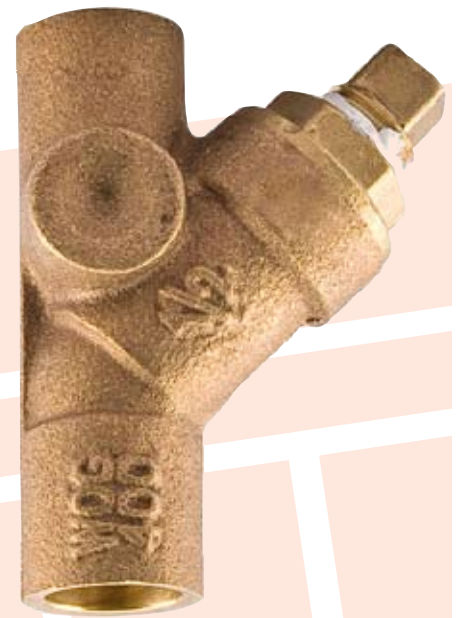
SIZE (DN)		DIMENSIONS				WEIGHT	
		A		B		C	
in.	mm	in.	mm	in.	mm	in.	mm
3/4	20	3 3/16	81	1 5/8	42	1/4	6
						lbs.	kgs.
						0.6	0.27



Check periodically for debris. To access the screen remove the filter plug and slide screen out. Remove debris and rinse clean



**WYE STRAINER
PLUMBED INTO
A 1036-225**



IMPORTANT

Before Service and Maintenance: Shut water off before checking and cleaning the Wye Strainer fitting screen located inside the fitting.



Vacuum Breaker

Size: 3/4" (20mm) thread

Vacuum Breaker is a line of unique vacuum breakers specially made to

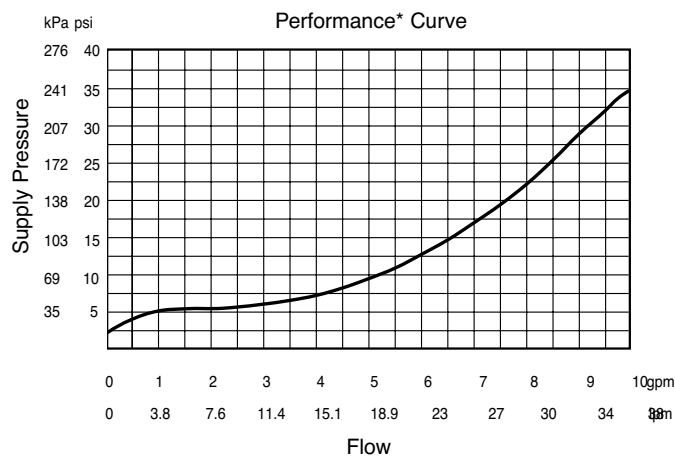
permit the attachment of portable hoses to hose thread faucets. Designed to prevent the flow of contaminated water back into the potable water supply, these devices require no plumbing changes, and screw directly onto a sill cock.

Features

- Stainless steel working parts for longevity
- Durable rubber diaphragm and disc for consistent positive seating

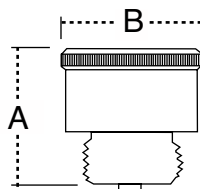
Use only with approved hose bibbs or hose fittings having four or more full American National Hose (NH) threads.

Capacity



*Performance as established by an independent testing laboratory.

Dimensions – Weights



MODE	SIZE (DN)		DIMENSION				WEIGHT	
	In.	mm	A	B	In.	mm	oz.	gm.
8B	3/4 HT	20	1 1/2	38	1 3/8	35	4.0	113.4

INSTALLATION

Thread Vacuum Breaker onto Aspirator, tighten. Vacuum Breaker is secured by tightening the set screw.

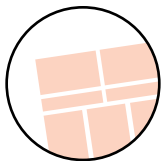
TO DRAIN

Vacuum Breaker can be drained to prevent freezing by removing and pulling down gently on the stem.

IMPORTANT

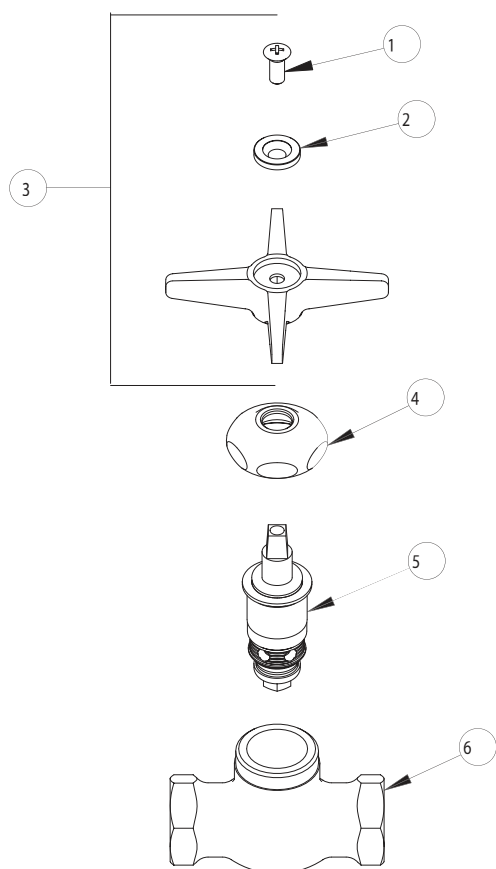
Do not use with continuous pressure or use where discharge of water could cause damage.





CHICAGO MODEL 45-CP

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning this product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of faucet products.



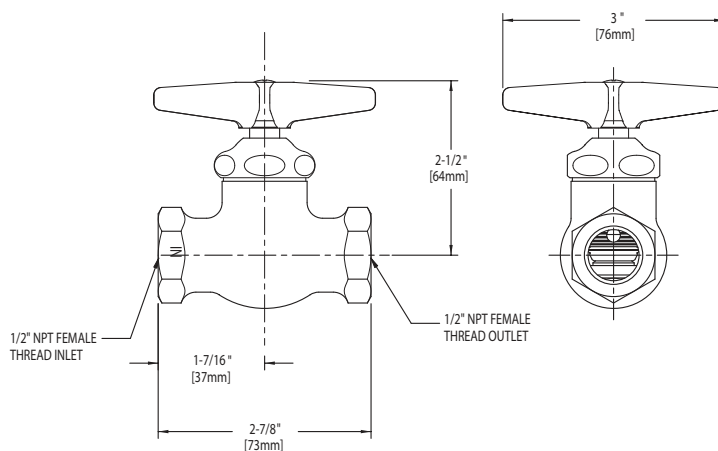
ITEM NO.	PART NO.	DESCRIPTION
1	420-010	SCREW
2	633-223	INDEX BUTTON (WHITE)
3	633PL	4-ARM PLAIN HANDLE ASSEMBLY
4	1-214	CAP
5	217XTLH	SLO-COMPRESSION UNIT (LH)
6	*****	VALVE BODY (NOT SOLD SEPARATELY)

WARRANTY

- Lifetime Limited Faucet Warranty
- 5-Year Limited Cartridge Warranty
- 1-Year Limited Finish Warranty

FEATURES & SPECIFICATIONS

- Polished chrome plated finish
- Solid brass body construction
- 3" diameter metal cross handle with color coded index button, catalog #633
- Slow compression renewable cartridge that closes with water pressure with tapered square broach to facilitate handle removal, catalog #217-XTLH
- 1/2" NPT inlet and outlet



Emergency Equipment Parts and Accessories 8901B

Model 8901B wall mounted eye/face and body spray features a Feather-Flo® ABS plastic eye/face wash head, stay-open squeeze lever valve, eight-foot hose and wall-mounting bracket.

Supply: 1/2" IPS. Model 8901B is certified by CSA to meet the ANSI Z358.1 Standard for Emergency Eyewash and Shower Equipment. Per ANSI, "Hand held drench hoses provide support for emergency shower and eyewash units, but shall not replace them."

Components

Eyewash Head: Part number 0002974804 Feather-Flo ABS green plastic eye/face wash head with integral flip top dust cover that automatically releases with flow of water. 1/4" IPS.

Eyewash Flow Control: Model SP37.4 black rubber 4 gpm flow control insert. Controls water flow rate when flow pressure is between 30 and 90 psi.

Eyewash Valve: Model SP248 chrome-plated brass stayopen valve with squeeze lever handle and built-in 4 gpm flow control. 1/2" IPS inlet x 1/4" IPS outlet.

Hose: Model SP140 8-foot 250 psi pressure rated green hose with chrome-plated swivel fitting at one end to facilitate ease of operation. 1/2" IPS inlet and outlet.

Universal Sign: Model SP176 vertical universal emergency body spray sign. Size: 8" x 11".

Test This Week Tag: SP170 is a Green waterproof test card with space for date and initials of inspector. Used to record weekly testing of emergency equipment.

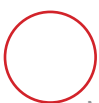
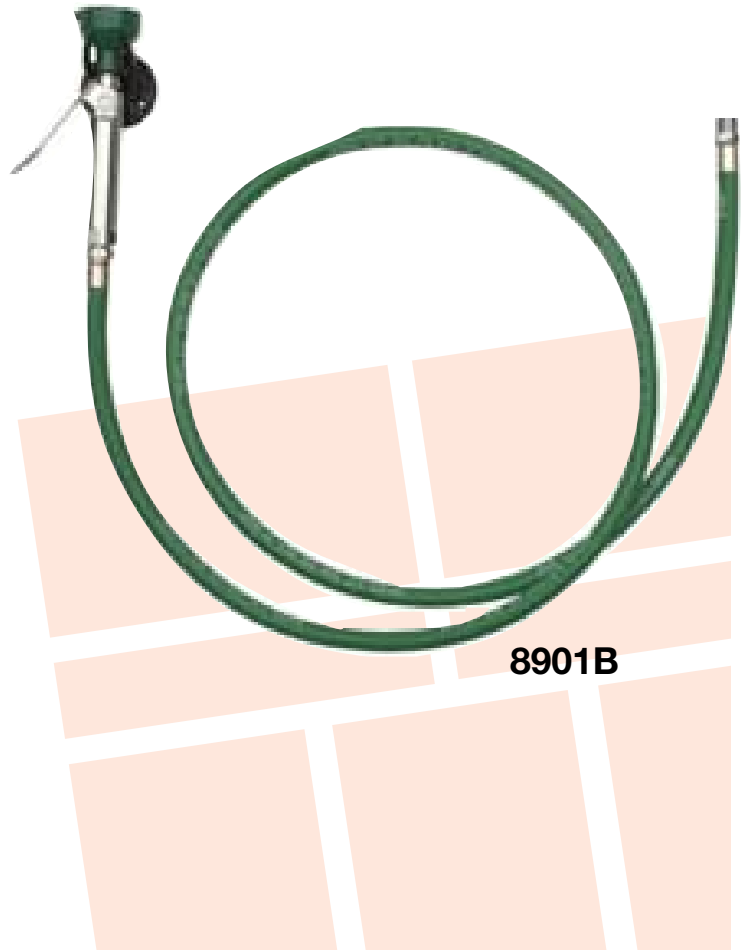
Options & Accessories: (Additional cost)

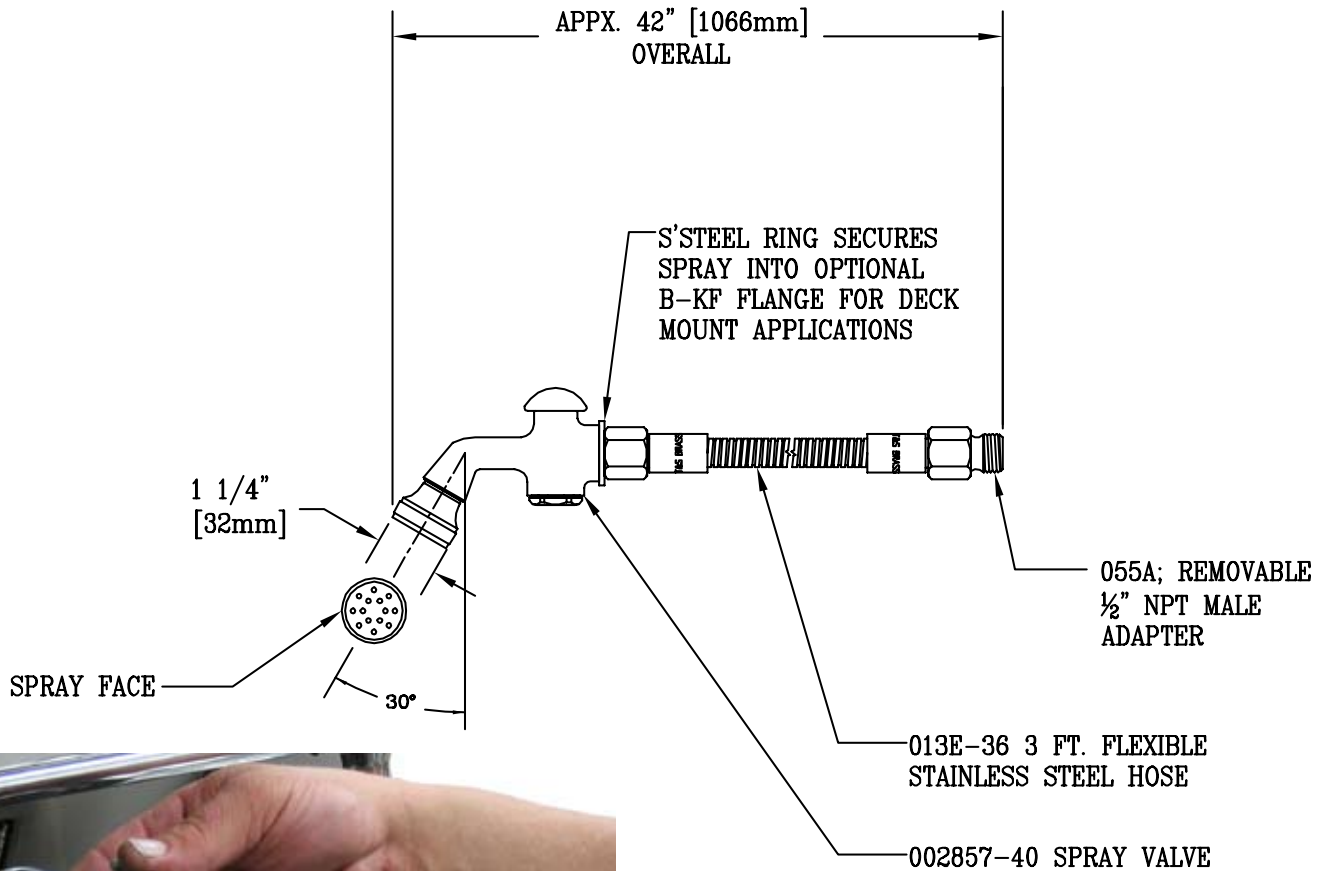
Hose & Spray Unit: Model 8904 deck-mounted eye/face wash and body spray with dual 45 degree angle heads, and 8-foot pressure rated hose.

Repair Kit: Model VRKSP248 valve repair kit for Model SP248 squeeze handle valve.

Vacuum Breaker: Model SP212 rough chrome-plated brass vacuum breaker. 3/8" IPS.

Universal Sign: Model 9022 green and yellow ABS plastic 3-sided sign for use with emergency eyewashes.





T&S HAND SPRAY ASSEMBLY

T & S BRASS AND BRONZE WORKS, INC.
MODEL # 013E 72" hose

T & S BRASS AND BRONZE WORKS, INC.
MODEL # 002858-40 Spray valve assembly



END RINSE ASSEMBLY



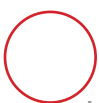
T & S BRASS AND BRONZE WORKS, INC.

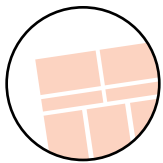
MODEL # B-1025 End rinse assembly control valve (Figure-A)

(Figure-A)



MODEL # B-1025





MAINTENANCE INSTRUCTIONS

MAINTENANCE SCHEDULE

The unit requires regular maintenance and follow the manufactures directions.

DISINFECTING AND CLEANING

Clean all surfaces of the stainless steel with a hard surface disinfectant/cleaner such as Sheila Shine® or SaniZene®. Follow instructions on container.

DISINFECTING AND CLEANING COMPONENTS AND ACCESSORIES

Hand wash with disinfecting soap and warm water. Rinse well with clear water and dry with a towel. (Clean on a regular basis to prolong work life).

WARNING

Improper maintenance can cause injury. Maintain only as prescribed in this manual.

Overall, it is very simple to maintain. If you use for its intended purpose, it will provide many years of reliable service.

CARE OF STAINLESS STEEL

Stainless steel products have a directional #4 brushed finish. This finish is produced using a very fine abrasive cloth. Dragging heavy equipment across the stainless steel surfaces will cause noticeable scratching. Pitting/corrosion can occur when carbon steel products are allowed to remain in contact with the stainless steel in the presence of moisture. (Examples- Steel Wool pads left in the bottom of the sink). Stainless steel can be damaged by exposure to acids.

TYPES OF SURFACE CONTAMINANTS

Dirt - Consist of accumulated dust and a variety of contaminates. Warm water with or without a gentle detergent is sufficient. Next in order are mild non-abrasive powders such as typical household cleaners. These can be used with warm water, bristle brushes, sponges, or cleaning cloths. (Do not use carbon steel brushes or steel wool they may leave particles embedded on the surface which can lead to RUSTING.) For more aggressive cleaning, a small amount of vinegar can be added to the scouring powder. When water contains mineral solids, which leave water spots, it is advisable to wipe the surface completely with dry towels.

Fingerprints and Stains - Fingerprints and mild stains resulting from normal use are the most common surface contaminates. This affect the appearance and seldom have an effect on corrosion resistance. They can be removed with a glass cleaner or by gentle rubbing with a paste of soda ash (sodium carbonate) and water applied with a soft rag. Followed by a thorough warm water rinse and towel dry.

Shop Oil and Grease - These soils may be corrosive and may not allow the surface to maintain passivity, and so removal is a necessity. Soap or detergent and water may be used or a combination of detergent and water plus a solvent.

TYPES OF CLEANERS AND METHODS

General Precautions

Avoid using abrasive cleaners unless absolutely necessary. A "soft abrasive," such as pumice, should be used. Many cleaners contain corrosive ingredients, rinse with clean water.

Clean Water and Wipe - A soft cloth and clean warm water should always be the first choice for mild stains, loose dirt and soils. A final rinse with clean water and a dry wipe will eliminate the possibility of water stains.

Solvent Cleaning - Organic solvents can be used to remove fresh fingerprints, oils and greases that have not had time to oxidize or decompose. The preferred solvent is one that does not contain chlorine, such as acetone, methyl alcohol, and mineral spirits.

EFFECTIVE CLEANING METHODS

Commercial Cleaners - Many commercial cleaners compounded from phosphates, synthetic detergents, and alkalis are available for the cleaning of severely soiled or stained stainless surfaces. When used with a variety of cleaning methods, these cleaners can safely provide effective cleaning.

SCRATCH REPAIR

Surface scratches can be repaired using the following technique. Depending on the severity of the scratch, it may be possible to completely remove it. Sand the scratch using 120 grit emery cloth or paper and firm pressure. Always sand in the direction of the grain. Avoid the natural tendency to sand in an arc, instead sand in a perfectly straight line. Sand until the scratch is gone.

Polish using 3M Scotch Brite pads - Very Fine Grade. Use the same motions as with sanding. Polish until the original finish is restored. Wash and wipe the surface completely with dry towels.

RUST REMOVAL

Rust can be repaired using the following technique. Sand the scratch using 120 grit emery cloth or paper and firm pressure. Always sand in the direction of the grain. Avoid the natural tendency to sand in an arc, instead sand in a perfectly straight line. Sand until the rust is gone.

Polish using 3M Scotch Brite pads - Very Fine Grade. Use the same motions as with sanding. Polish until the original finish is restored. Wash and wipe the surface completely with dry towels.

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1036-225 Small Animal DOWNDRAFT Dissecting Table

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WARRANTY

Mortech Manufacturing warrants all fabrications to be free of defects due to its own workmanship and materials.

Repair and/or replacement of materials furnished that may develop such defects, will be warranted for a period of one year from the date of shipment.

Items not manufactured by Mortech Manufacturing will receive the manufacturer's warranty.

PARTS AND SERVICE

Customer relations and product support are important aspects of Mortech Manufacturing. For assistance with this or any of our fine products please contact us below:

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This manual contains general instructions for the use, operation, and care of this product. The instructions are not all inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations. It is recommended that training on the proper use of this product be provided before using this product in and actual situation.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Customer Relations.

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CAUTION

- Inspect unit and all components for any loosening that may have occurred during shipping •

