

# Technical Users' Manual

Installation and Operating Instructions

# MODEL 1036-210 DOWNDRAFT NECROPSY WORKSTATION

### CAUTION

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

ATTENTION Review entire manual before starting assembly

### ATTENTION

All images and Drawing in this manual may not represent your model. Refer to your particular project for exact specifications CAUTION • DO NOT USE CLEANERS CONTAINING CHLORINE WHEN CLEANING STAINLESS STEEL•

Mortech™ Manufacturing Inc. 411 North Aerojet Avenue, Azusa, CA 91702 (626) 334-1471 www.mortechmfg.com

# JULY 2010 ISO Doc. #OM1036-210 (REV C)



### 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 Manufacturing 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 Mortech Manufacturing Inc. prescribed approved parts and service. Use the equipment only as designed by Mortech Manufacturing 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.

### RECOMMENDED OPERATING SKILLS AND TRAINING - SKILLS

### - SKILLS

Operators using the equipment need:

- 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

- $\hfill\square$  Read the this manual as prescribed
- Be trained on the use of the equipment.
- 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 EQUIPMENT**

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

### **INSPECTING THE UNIT BEFORE USE**

<u>Please take time to inspect all shipment prior to signing</u> <u>delivery ticket.</u> 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 Mortech Manufacturing Inc.

### **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 transport. We recommend a forklift and/or pallet jack with the capacity to lift up to 2000 lbs. to remove cargo from transport.

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 equipment for installation will once again require a forklift. Read all manual and note on installation of the unit before attempting 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 transport and safely into the place of installation.

# **Range of Environmental Condition**

Mortech Manufacturing. Inc. equipment shall be placed in a controlled environment (housing or housed unit) hindering the weathering effects on the installed units. The equipment will have minimal corrosive and eroding factors that can break down the stability and operation of Mortech Manufacturing Inc. equipment. The impact on the equipment 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 (manmade) 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.

JULY 2010 MFGISO DOC. #OM1036-210 (REV C)



This ventilated workstations is a tremendous plus for assisting in an autopsy performed on small to medium size animal. The workstation will pull air and odors, down and away from the personnel when performing a medical procedure.

## STANDARD DESIGN FEATURES

- 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
- Internal baffle to distribute downdraft exhaust across entire length of the table

- Full length, perforated supports
- Rapid and positive drainage
- Access panel door
- GFCI duplex receptacle w/waterproof cover
- Plumbing and electrical lines factory installed and required only single point connection at the project location
- Spray hose assembly with cold water control valve, nozzle and 10 ft./3 m. of flexible hose
- Provided with or without sink
- Manual damper





# 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 persist

### **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



# **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. If the floor is not level, the station may not set level causing possible door closing problems. You can use shims under the box to level the station 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.** Identify what type of floor table will be installed. Use appropriate hardware necessary for the secure installation of the table.

**Step 3.** Some stations are large and heavy so it is best to use a hydraulic/manual lift to maneuver the station into position for installation. Make sure the unit is resting level on the forks or lift supports when lifting with hydraulic/manual lift. Sometimes a fork extension will be necessary. (Level table before anchoring) Lower into position until the unit fully rest in the location desired.









# **EXPOSED END RINSE**

1036-210 Downdraft Necropsy Workstation ~120VAC/60hz/1ph (15A Circuit-Disposer, 15A Circuit-GFCI) Main Power Disconnect To Be Recommended or Supplied:

#### ELECTRICAL CONNECTION INSTRUCTIONS

- 1: (Refer to Figure-I for electrical wiring within the conduit) Connect electrical lines from station to building. Units are provided with watertight conduit lines for connection.
- A waterproof load center (if requested, optional) with (2) circuit breaker disconnect with a 15A fuse (15A Circuit-Disposer) and 15A fuse (15A Circuit-GFCI) will be attached to the unit itself. Then connected to the point of connection provided on installation site.

### (2)15A Circuit-Disposer consist of

Solenoid - .05A Disposer Switch - 15A Disposer unit -(.5 hp, 8.4A) (.75 hp, 10.0A) (1 hp, 11.6A)

#### (2)15A Circuit-GFCI consist of GFCI - 20A

Light Switch - 15A Magnifier Light - 5A Formalin Foot Switch - 10A Formalin Motor - 6.4A Elevating Switch/System - 6A



L1 BLACK (15A CIRCUIT) L2 WHITE-NEUTRAL GREEN-GROUND L1 RED (15A CIRCUIT) OPTIONAL ACCESSORIES



JULY 2010 MFGISO DOC. #OM1036-210 (REV C)





# 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. 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 disposer unit, depending on the option provided. (Refer to Figure-H) See disposal manufacturers manual for more information.



# 1036-210 Downdraft Necropsy Workstation



All measurements in inches/centimeters

Figure-G



![](_page_9_Picture_0.jpeg)

# **REMOVE EXTERIOR SCREWS**

**EXHAUST DUCT REMOVAL** 

![](_page_9_Picture_5.jpeg)

![](_page_9_Picture_6.jpeg)

![](_page_9_Picture_7.jpeg)

JULY 2010 MFGISO DOC. #OM1036-210 (REV C)

### SIDE PANEL ACCESS REMOVAL See Specific Project Drawings for Exhaust Duct Sizes and Locations

1. Remove all (4) interior screws

2. Remove (2) exterior screws

NOTE: Side panels are not interchangeable keep. Panels on the side they are shipped on..

![](_page_10_Picture_6.jpeg)

![](_page_10_Picture_7.jpeg)

![](_page_10_Picture_8.jpeg)

![](_page_10_Picture_9.jpeg)

![](_page_11_Picture_0.jpeg)

![](_page_11_Picture_3.jpeg)

## REAR PANEL ACCESS REMOVAL See Specific Project Drawings for Exhaust Duct Sizes and Locations

Remove rear panel to expose electrical

- 1. Remove Bolts using a 1/2 inch wrench
- 2. Proceed with all (4) corners

![](_page_11_Picture_8.jpeg)

![](_page_12_Picture_2.jpeg)

## FRONT PANEL ACCESS REMOVAL See Specific Project Drawings for Exhaust Duct Sizes and Locations

Remove all (4) exterior screws
 Remove (4) interior BOLTS

NOTE: Side panels are not interchangeable keep. Panels on the side they are shipped on..

![](_page_12_Picture_6.jpeg)

![](_page_12_Picture_7.jpeg)

![](_page_12_Picture_8.jpeg)

![](_page_12_Picture_9.jpeg)

![](_page_12_Picture_10.jpeg)

![](_page_13_Picture_0.jpeg)

# Component Data

### LC-50 LIGHT DUTY DISPOSER

### **IDEAL FOR LIGHT DUTY APPLICATIONS**

- Coffee shops
- Convenience stores
- Quick service restaurants
- Assisted living or nursing stations
- Business & industry
   PRODUCT OVERVIEW
- · Foodservice design with the ease and flexibility of a household unit
- Disposer mounting included with unit fits standard 3-1/2" to 4" (88.9 mm to 101.6 mm) sink opening — no welding required!
- Standard wall switch operates the disposer
- Automatic reversing motor for longer life and trouble-free operation
- Stainless steel grind chamber
- Cast nickel chrome cutting element
- 35 lb. (15.9 kg) shipping weight
- 1/2 HP continuous-duty commercial motor
- 1725 RPM
- Single Phase

![](_page_13_Picture_20.jpeg)

## **ELECTRICAL SPECIFICATIONS**

- □ LC50-11 120V, 60 Hz, 5.8 amps, CUL
- □ LC50-12 230V, 50/60 Hz, 375 watts
- □ LC50-13 220-240V, 50 Hz, 375 watts, BEAB, supplied with shuko plug
- □ LC50-14 120V, 60 Hz, 5.8 amps, **NOM**

**IMPORTANT:** The model LC-50 is designed specifically for light duty foodservice use. Use of this disposer in applications other than those named above may void your warranty. If you are unsure of a potential application, call the factory at 1-800-845-8345.

# DIMENSIONS

![](_page_13_Figure_28.jpeg)

NOTE: Plumb 1-1/2" (38.1 mm) waste line to prevent standing water in disposer motor housing.

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# Critical components

# 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 indicated 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

![](_page_14_Picture_22.jpeg)

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.

![](_page_14_Figure_31.jpeg)

![](_page_15_Picture_0.jpeg)

## SWITCH

20A, 120/277V, Grounding, Premium Single Pole Toggle Switch, UL, Federal Specification, CSA, Tested To 25000 On/ Off Cycles, Screw Pressure Plate Back & Side Wire Termination Accepts #14 Through #10 Awg Stranded & Solid Copper Wire, High Impact Resistant Thermoplastic Constructions, Commercial/Specification Grade, Window Box.

### **Product Features:**

Ground: Amperage: Voltage: HP Rating: Max Amp: Termination: Actuator Material: Body Material: Strap Material: Standards and Certifications: Grounding 20 Amp 120/277 Volt 1HP-120V 2HP-240V-277V 16 Amp Side Thermoplastic Thermoplastic Steel UL/CSA

![](_page_15_Picture_7.jpeg)

![](_page_15_Picture_8.jpeg)

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![](_page_15_Picture_10.jpeg)

# **Technical Specifications**

LIQUID-TUFF<sup>™</sup> 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.

![](_page_16_Picture_12.jpeg)

## 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(F) and 695 14(F)

![](_page_16_Picture_19.jpeg)

![](_page_17_Picture_0.jpeg)

# Features and Benefits:

### **Lockout Action**

- Automatically tests every time the RESET button is pushed.
- The trip latching mechanism in SmartLockPROGFCIs is a one-piece "T" design for efficient operation
- There are 4 sets of contacts for load terminals and face. SmartLockPROGFCIs use a patented bifurcated bridge contact for efficient operation
- The SmartLockPROGFCI 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

![](_page_17_Figure_13.jpeg)

![](_page_17_Figure_14.jpeg)

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- 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 wallplates; available in select Decora colors
- Hospital Grade and Blank Face Switch-Rated models available
- Packed with coordinating wallplate
- Backed by Leviton's Limited Two-Year Warranty 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

![](_page_17_Picture_31.jpeg)

# Critical components

# **RECEPTACLE COVER**

Type: Vertical Color: Gray

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

![](_page_18_Picture_11.jpeg)

Diagram: Vertical GFCI Installation

![](_page_18_Figure_13.jpeg)

![](_page_19_Picture_0.jpeg)

# HOT/COLD MIXING FAUCET

![](_page_19_Figure_4.jpeg)

# 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 21/2"-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

![](_page_20_Picture_15.jpeg)

![](_page_20_Figure_16.jpeg)

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

## **Dimensions** 777SI

SIZE (DN)			DIMEN	ISIONS		WEIGHT			
			٩	-	3	(	C		
in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
3⁄4	20	<b>3</b> <sup>3</sup> ⁄16	81	15⁄8	42	1/4	6	0.6	0.27

![](_page_20_Figure_20.jpeg)

![](_page_20_Picture_21.jpeg)

## **IMPORTANT**

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

![](_page_21_Picture_0.jpeg)

## 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
- Bronze body 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 a zone 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

![](_page_21_Picture_26.jpeg)

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# **HYDRO-ASPIRATOR**

Mandatory operation requirements

- Minimum 1/2" supply line
- Minimum 60 lbs of water pressure
- Minimum 4 gallons per minute of water flow through unit

Vacuum up to 26 inches can be maintained at these pressures. Trocar or aspiration line is attached to the aspiration tube. Diverter handle at lower end must be parallel to length of 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.

Reorder No. LW480

Diverter Handle

![](_page_22_Figure_9.jpeg)

- D 3/4-32 THREAD

### OVERALL ASSEMBLY LENGTH = 5.750 INCHES

![](_page_22_Figure_13.jpeg)

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**Control Valve** Model #CP45

![](_page_23_Picture_0.jpeg)

# 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

![](_page_23_Figure_12.jpeg)

\*Performance as established by an independent testing laboratory.

# **Dimensions – Weights**

![](_page_23_Figure_15.jpeg)

![](_page_23_Figure_16.jpeg)

# 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.

![](_page_23_Picture_23.jpeg)

JULY 2010 MFGISO DOC. #OM1036-210 (REV C)

# 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.

# 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

![](_page_24_Figure_17.jpeg)

![](_page_24_Figure_18.jpeg)

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

![](_page_24_Picture_20.jpeg)

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![](_page_25_Picture_0.jpeg)

# Component Data

# SPRAY HOSE ASSEMBLY

- SINGLE WALL CONTROL VALVE, Model #2700
- SPRAY HEAD, Model #10820
- SPRAY HANDLE, Model #2913
- SPRAY HOSE, Mortech Model #SH10

### Feature:

- Single wall
- Stem right hand
- Swiveling seat disk
- Hot & cold index buttons
- Stainless steel seats
- Stainless steel seat screws
- Stainless steel handle screws

### **Recommended Settings**

- 110°F at 80 psi
- System limits
- Temp: 40°F min. to 140°F max.
- Pressure 200 psi max. static Shipping weight
- •11.5 lbs

![](_page_25_Figure_21.jpeg)

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# Accessories

### **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.

### **Rectangular Carboys** with Spigot

Space-saving rectangular shape. Excellent chemical resistance, a good choice for storing and dispensing stock solutions.

![](_page_26_Picture_11.jpeg)

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

![](_page_26_Picture_14.jpeg)

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

![](_page_26_Picture_16.jpeg)

most accurate measurements quickly.

## **Magnetic Instrument Holder**

conveniently store and organize your most common used instruments within arms reach. Be sure to contact us for your instrument needs. We have a wide range at competitive prices.

### **Emergency Eyewash Hose Assembly**

Hand control spray to provide a gentle of water to rinse eyes of foreign debris. Includes bracket for spray handle and coiled hose.

![](_page_26_Picture_22.jpeg)

![](_page_26_Picture_23.jpeg)

### **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 IW386 LW387 LW389

![](_page_26_Picture_31.jpeg)

![](_page_26_Picture_32.jpeg)

![](_page_27_Picture_0.jpeg)

# Equipment maintenance 1036-210 Downdraft Necropsy Workstation

## MAINTENANCE INSTRUCTIONS

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, CLEANING COMPONENTS & 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.

5 Stainless Steel Mistakes NOT to Make When Cleaning 1.Do not use abrasive cleaners that will scratch

**the surface.** Depending on the surface finish of your stainless steel, abrasive cleaners can cause scratching. A dull finish, probably will not show scratching as much as mirror or highly polished finishes. Test the cleaner in a hidden spot. It's also a good idea to work from the least risky type (water) of cleaning to the heavy duty stuff.

**2. Do not forget to rinse.** Gritty or dirty water can leave a residue on your finish. It can also stain or pit the surface of your stainless steel. Rinse completely. Residue from cleaning solutions left on a stainless steel surface can stain or damage finish.

**3. DO NOT USE CLEANERS CONTAINING CHLORINE.** While it may be second nature to bleach everything, stainless steel and chlorine do not mix. Stay away from the bleach when you clean stainless steel. Be aware that bleach can be included in different types of cleaners. If you accidentally get a cleaner on your stainless steel you'll need to rinse it off and quickly.

**4. DO NOT USE STEEL WOOL OR STAINLESS BRUSH** These products leave little particles in the surface of the steel and inevitably these particles begin rusting and staining the surface of the steel. They also can excessively scratch the surface of your stainless steel. *Stay completely away from steel wool and steel brushes.* 

**5. Do not assume it's the cleaner.** If you do have some spotting or staining, and you've followed all of the rules, it may not be the stainless steel cleaner. Water, especially hard water, can leave spotting and staining on stainless steel surfaces. Towel dry after rinsing can end the problem. Sometimes, even water is an enemy to stainless steel.

MAINTENANCE RECORD					
Date		Ву			

![](_page_29_Picture_0.jpeg)

Training record

TRAINING RECORD					
Date		Ву			

JULY 2010 MFGISO DOC. #OM1036-210 (REV C)

# WARRANTY

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

### **CONTINENTAL UNITED STATES:**

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. Inc. will receive the manufacturer's warranty.

### INTERNATIONAL:

(For validation of warranty, installation location (physical address) required) Replacement of parts furnished that may develop such defects, will be warranted for a period of (18) months from the date of shipment. Shipping & handling and Labor is not warranted. Items not manufactured by Mortech Manufacturing. Inc. will receive the manufacturer's warranty.

### PARTS AND SERVICE

Customer relations and product support are important aspects of Mortech Manufacturing. Inc. For assistance with this or any of our fine products please contact us below: Mortech Manufacturing. Inc. 411 North Aerojet Avenue Azusa, CA 91702 TEL (626) 334-1471 FAX (626) 334-1704 www.mortechmfg.com info@mortechmfg.com

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### IMPORTANT

BEFORE INSTALLATION AND OPERATION OF THE UNIT, CHECK ANY ENCLOSURE PANELS AND PLUMBING FIXTURES THAT MIGHT HAVE LOOSENED DURING SHIPPING.

### ATTENTION

All images and Drawing in this manual may not represent your model. Refer to your particular project for exact specifications

### DISCLAIMER

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.

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![](_page_30_Picture_23.jpeg)