

WWF-4206

Willoughby Industries, Inc.

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Installation & **Operation Manual**

WWF-4206 Series

Six-station 42" 360° **Stainless Steel Washfountain Electronic/Pneumatic**

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MADE IN THE U.S.A.



Rev. 11/2016

Pre-Installation Information

Installation notice!

Check Rough-In location **PRIOR** to installation

Flush lines thoroughly **PRIOR** to hook-up

When installing the **Willoughby Industries' WWF-4206 Series** washfountain system:

Before Step 1 of the installation instructions, ensure that rough-ins are in the correct location.

The valve assembly, including the spray head, **MUST NOT BE** connected until *after* all lines have been flushed to remove the small particles of debris that are inherent with new construction projects and all chemicals that are used in flushing are purged from the system.

Chemicals used in flushing plumbing systems can attack the internal components of the valve and spray head and severely damage them, so any flushing of the system must be followed by a full flushing with pure water to clear any harsh chemicals remaining in the system. Debris in the system if allowed to enter the valve assembly and spray head can cause poor performance or outright failure.

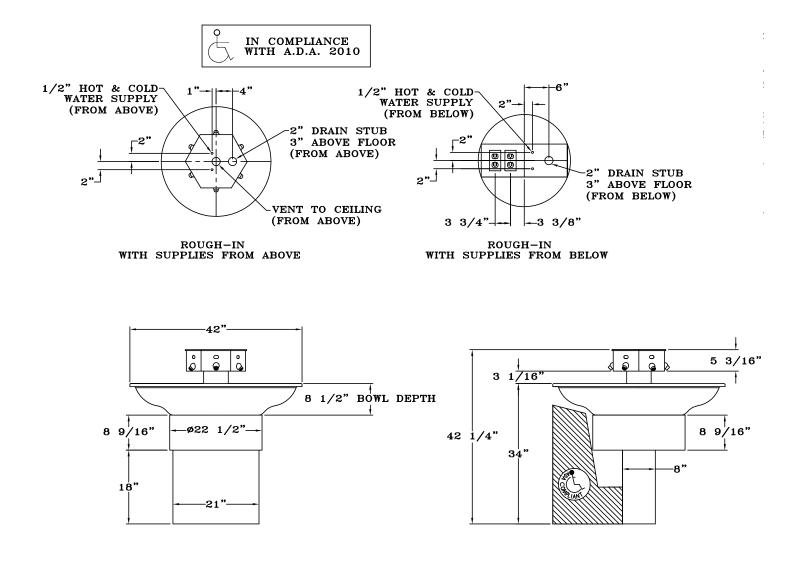
Again **DO NOT** attempt to connect the valve assembly and spray head until *after* all flushing is complete and pure water is the only media that will be passing through the system. Damage to the valve assembly or spray head caused by harsh chemicals or debris will not be covered by the manufacturer's warranty.

Installation notice!

Check Rough-In location **PRIOR** to installation

Flush lines thoroughly **PRIOR** to hook-up

Physical / Rough-in Dimensions- WWF-4206



Required Installation Supplies

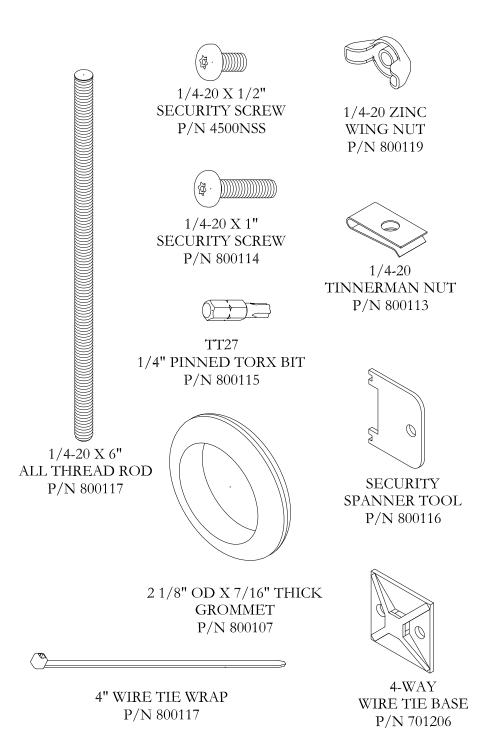
- Proper mounting hardware
- Hardware for waste outlet connections
- Gasket for waste outlet connection
- Shims (for installation if necessary)
- Supply piping
- Silicone caulk
- Plumbers putty

□ WARNING: Willoughby Industries does not assume any responsibility for personal injury or damage to equipment due to an improperly installed WWF-4206 Series washfountain.

Parts List

DESCRIPTION	PART# 6 STATION	PART# 8 STATION
DRAIN ASSEMBLY	380283	380283
ACTUATOR PALM PUSH BUTTON	600311	600311
PNEUMATIC VALVE ASSEMBLY	803105-6SW	803105-8SW
HARDWARE KIT	800258	800258
PLASTIC VALVE BRACKET	9805023	9805024
VALVE FITTING ASSEMBLY	980600A	980600A
CHECKSTOP ASSEMBLY	980183	980183
STAINLESS STEEL FLEX HOSE (6")	980506	980506
STAINLESS STEEL FLEX HOSE (20")	980520	980520
POWERS HYDROGUARD T/P (LFe480)	700480ELF	700480ELF
SPRAY HEAD AERATOR	320157A	320157A
SOLID SURFACE TOP COVER (36" & 54")	802020GG	802020GG
SOLID SURFACE / S/S TOP COVER (42")	804206-GG / 804206-S/S	N/A
STAINLESS STEEL TOP COVER (54")	S600342	S600337
36" STAINLESS STEEL BOWL/PEDESTAL	WWF3606-FT	N/A
42" STAINLESS STEEL BOWL/PEDESTAL	WWF4206-FT	N/A
54" STAINLESS STEEL BOWL/PEDESTAL	WWF5406-FT	WWF5408-FT
36" VALVE HEAD KIT	WWF3606-PFT	N/A
42" VALVE HEAD KIT	WWF4206-PFT	N/A
54" VALVE HEAD KIT	WWF5406-PFT	WWF5408-PFT

Hardware Identification



Installation Instructions

Step 1: Pedestal Mounting

Parts supplied:

• Pedestal/Wash Basin assembly (pre-assembled)

Note: Hardware for floor anchoring by others

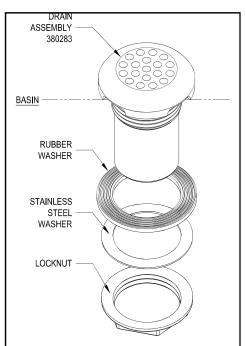
- 1.) Unpack pedestal and inspect parts.
- 2.) Place pedestal at the desired position and mark anchor holes (anchors by others). <u>Make sure</u> <u>that the intended anchor locations will provide adequate backing to support the installed</u> <u>washfountain. If adequate backing does not exist, install appropriate support backing or</u> <u>relocate unit before proceeding with installation</u> (backing provided by others).
- 3.) Secure the pedestal to the floor using anchors that are adequate for the type of floor.

Step 2: Drain Assembly

Parts supplied:

- Pedestal/Wash Basin assembly (pre-assembled)
- Drain assembly (see diagram)
- 1.) Insert the drain assembly down through the basin drain hole.
- 2.) Secure in place by fitting the rubber and stainless steel washers onto the drain assembly from the underside of the basin and tightening the locknut onto the drain assembly, sandwiching the washers between the basin and locknut.

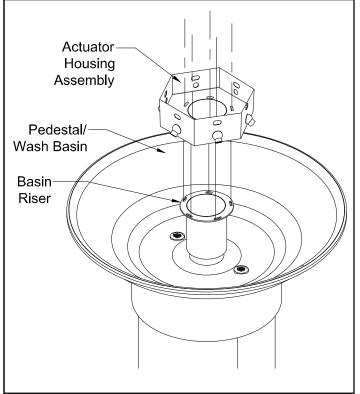
Note: Over-tightening can damage the basin and/or drain assembly components



Step 3: Valving and Basin Assembly

Parts supplied:

- Pedestal/Wash Basin assembly
- Actuator housing assembly
- 1/4"-20 X 1/2" security screws
- Caution: Do not leave the pedestal/wash basin assembly unsupported, as it may fall and cause damage or personal injury.



- 1.) Place the actuator housing assembly over the center of the basin riser aligning the holes with threaded inserts. Secure with security screws.
- 2.) The wash basin is ready for plumbing and/or electrical installation*.

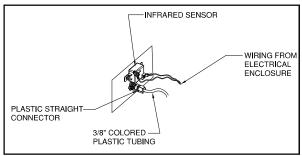
*If you have infrared sensors or electrical pushbuttons, go to Step 4A. If you have pneumatic pushbuttons, go to Step 4B.

Step 4A: Connections for Infrared/Piezo Actuators

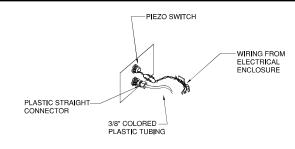
Parts supplied:

- Valve Assembly (pre-installed)
- 3/8" x 4' Multi-Colored Water Lines
- Small Diameter Multi-Colored Pneumatic Tubing
- 1/4-20 x 1/2" security screws
- 1/4-20 tinnerman nuts

Note: Use wire tie mounts and wire ties to route and secure wiring. Wires are long enough to accommodate various routing paths. Longer tubes may need to be bundled with wire ties so they do not come in contact with sharp corners.



Infrared Sensor Actuator



Piezo Push Button Actuator

- 1.) Locate the terminal block plate and attach to the pedestal using 1/4-20 x 1/2" security screws and tinnerman nuts.
- 2.) Locate the group of loose colored wires coming from the terminal block plate labeled "UPPER".
- 3.) Feed 2 like-colored wires into each of the actuator housing assemblies (either the Infrared or Piezo assemblies, whichever applies to the installation).
- 4.) Plug both like-colored wires into the actuator as shown above (either wire will work on each connector).
- 5.) Locate the 3/8" multi-colored water lines. Match the color of each water line with the corresponding color of wiring. Run the end of each water line up through the basin to the head kit. Match the color of each water line to the spray head assembly below each actuator. On each corresponding spray head, loosen the plastic nut on the plastic connector and firmly push the water line through the plastic nut into the fitting. Tighten the plastic nut to secure the water line to the spray head. Repeat for each remaining water line. (**see JACO Fitting Instructions on Page 12 for further detail).
- 6.) Once all water lines have been attached to their corresponding spray heads, on each corresponding manifolded valve assembly, loosen the plastic nut on the plastic connector and firmly push the water line through the plastic nut into the fitting. Tighten plastic nut to secure the water line to the valve assembly. Repeat for each water line.

Connect each set of like-colored wires to each of the manifolded valves. 7.)

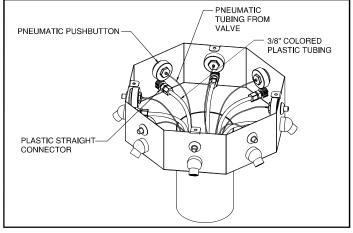
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Step 4B: Connections for Pneumatic Actuators

Parts supplied:

- Valve Assembly (pre-installed)
- 3/8" x 4' Multi-Colored Water Lines
- Small Diameter Multi-Colored
 Pneumatic Tubing
- 1/4-20 x 1/2" security screws
- 1/4-20 tinnerman nuts

Note: Use wire tie mounts and wire ties to route and secure tubing. Longer tubes may need to be bundled with wire ties so they do not come in contact with sharp corners.



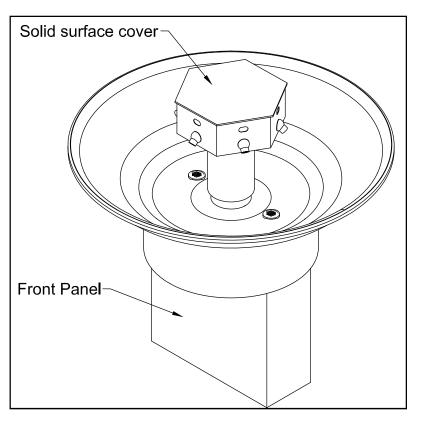
Pneumatic Push Button (Similar 8-station head kit shown)

- 1.) Locate the small multi-colored pneumatic tubing. Feed each one into each of the actuator housing assemblies.
- 2.) Plug each tube onto the hose barb on the back of the push button.
- 3.) Locate the 3/8" multi-colored water lines. Match the color of each water line with the corresponding color of tubing. Run the end of each water line up through the basin to the head kit. Match the color of each water line to the spray head assembly below each push button actuator. On each corresponding spray head, loosen the plastic nut on the plastic connector and firmly push the water line through the plastic nut into the fitting. Tighten the plastic nut to secure the water line to the spray head. Repeat for each remaining water line. (**see JACO Fitting Instructions on Page 12 for further detail).
- 4.) Once all water lines have been attached to their corresponding spray heads, on each corresponding manifolded valve assembly, loosen the plastic nut on the plastic connector and firmly push the water line through the plastic nut into the fitting. Tighten plastic nut to secure the water line to the valve assembly. Repeat for each water line.
- 5.) Connect each set of like-colored tubing to each of manifolded valves.

Step 5: Final Assembly

Parts supplied:

- Solid surface cover
- Front panel
- Spacer tray
- 1/4"-20 tinnerman nuts
- 1/4"-20 X 1" security screws
- 1/4-20 X1" flat head security screws
- 1/4"-20 hex couplings



- 1.) Make all final plumbing connections to valve inlets using supplied flex hoses (flex hoses have shut-off valves attached that should be connected to the supply inlets).
- 2.) Once all of the connections in the actuator housings are complete, locate the transformer.

NOTE: PLUG-IN TRANSFORMER (IF NEEDED) MUST BE USED WITH A GROUND FAULT INTERRUPT (GFCI) RECEPTACLE TO HELP PREVENT POSSIBLE ELECTRICAL SHOCK.

3.) Make final adjustments to valves and replace solid surface top cover and the two pedestal access covers with security screws.

JACO Fitting Instruction



Note: It is not necessary to disassemble this fitting for application. Merely insert tubing to stop and tighten seal.

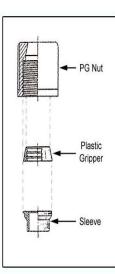
1. Cut tubing end squarely and remove the internal burrs.

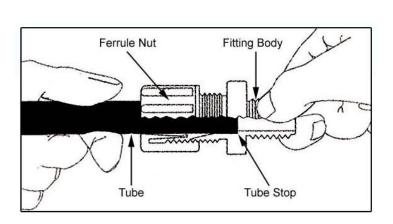
2. Insert the tubing through the back of the nut all the way through the nut assembly to the tube stop in the fitting body (see illustration). If the tubing does not enter the nut easily, loosen the nut one turn and reinsert the tubing all the way to the tube stop in the fitting body.

- 3. Turn the nut hand tight.
- 4. Wrench tighten the nut $1\frac{1}{2}$ 2 turns.
- 5. All nuts must be retightened when the system reaches projected operating temperature.

Note: To ensure proper assembly, tubing MUST be fully inserted into the fitting body all the way to the tube stop.

Note: Squeaking sound when tightening nut is normal. For pipe threaded connections, Teflon tape must be used.





Adjustable Mixing Valve Installation

JWER!

S-P-e480

HydroGuard® T/P Series e480 Lavatory Combination Valve

Installation Instructions

To Install

NOTE: Installation should be in accordance with accepted plumbing practices. Flush all piping thoroughly before installation

- 1. Locate a suitable place for the tempering valve. Valve should be accessible for service and adjustment and as close to the point-of-use as possible.
- 2. Connect hot and cold water to the supply valve using 1/2" NPT or 3/8" compression connections.
- 3. Connect outlet of tempering valve to fixture(s) using 1/2"NPT or 3/8" compression connections.
- 4. Turn on hot and cold water supplies. If any leaks are observed, tighten connections as necessary to stop leaks before proceeding.
- 5. Turn on fixture and allow water to flow for 2 minutes. Measure water temperature at outlet. If water is not at desired temperature, adjust as necessary.

Specifications

e480-00 1/2" NPT (Rough Bronze) e480-01 1/2" NPT (Rough Chrome) e480-10 3/8"Compression (Rough Bronze) e480-11 3/8"Compression (Rough Chrome) capacity: 4.0 gpm (15.0 l/m) Approach Temperature: 5°F (2.8°C) above set pt.
e480-10
e480-11
Capacity: 4.0 gpm (15.0 l/m)
Approach Temperature:
Max. Operating Pressure:125psi (862 kpa)
Max. Static Pressure:125psi (862 kpa)
Max. Hot Water Temperature:
Temp. Adjustment Range:
ASSE Type T/P: 95 – 110°F (43-48°C)
ASSE Type T: 80 – 120°F (27-49°C)
Minimum Flow: 0.5 gpm (2.2 l/m)
Checks:Integral
Construction: Cast Brass Body
Certified:CSA B125
ListingASSE 1016-1996 (Type T/P)
ASSE 1070

CALIFORNIA PROPOSITION 65 WARNING WARNING: This product contains chemicals known to the State of California to cause cancer

and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.) For more information: www.watts.com/prop65

Figure 1

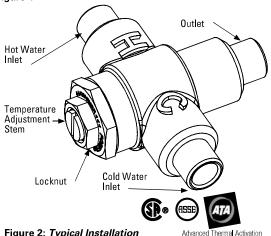
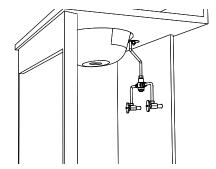


Figure 2: Typical Installation



To Adjust Temperature

1. Loosen locknut.

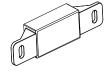
- 2. Turn on fixture and run water for at least two (2) minutes to allow supply temperature to stabilize.
- 3. Turn temperature stem counter-clockwise for hotter or clockwise for colder outlet temperature.
- 4. Tighten locknut to prevent accidental or unauthorized temperature adjustment.

5. Re-check outlet temperature.

Repair Kit

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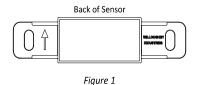
Infrared Sensor Installation Instructions



Willoughby Industries Infrared Lavatory Sensor Installation Instructions

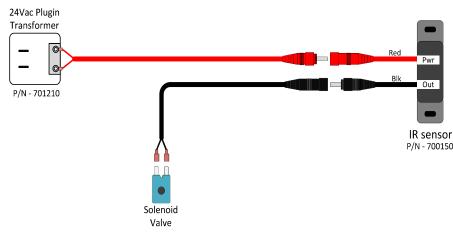
DETECTION AND ACTIVATION

When the sensor detects a user, a slow flashing red light appears in the sensor window. After 1 to 2 seconds of detection, the light flashes rapidly and the sensor immediately activates the solenoid valve to begin water flow. The solenoid valve remains open as long as the user is detected. The solenoid valve turns off when the user is no longer detected. The sensor is set to activate the solenoid for a maximum of 30 seconds before automatically shutting off.



INSTALLATION AND REPLACEMENT

- 1. Disconnect 24Vac power at the transformer or fuse box.
- 2. Remove top cover to expose sensors.
- 3. Install new sensor. Make sure sensor arrow is pointing up. See figure 1.
- 4. Connect the red male power cable to the red female connector on the sensor. See figure 2.
- 5. Connect the black female solenoid cable to the black male connector on the sensor. See figure 2.
- 6. Replace top cover removed in step 2.
- 7. Reconnect power.

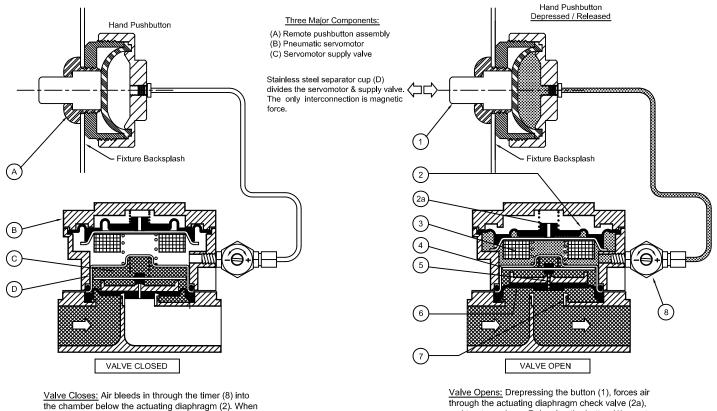




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Pneumatic Valve Operation Details



the chamber below the actuating diaphragm (2). When the pressure in this chamber returns to normal, the diaphragm (2), and the magnet (3), are forced up. The pilot orifice plate (4) drops, covering the pilot orifice (5). Water pressure increases above the seat diaphragm (6), closing the diaphragm (6), against the seat (7). <u>Valve Opens:</u> Drepressing the button (1), forces air through the actuating diaphragm check valve (2a), and to atmosphere. Releasing the button (1), creates a vacuum below actuating diaphragm (2), and magnet (3). Diaphragm (2), and magnet (3), are forced down. Pilot orifice plate (4) is pulled up by magnet (3), opening the pilot orifice (5), , bleeding off line pressure from above the seat diaphragm (6). Water pressure then lifts the seat diaphragm (6), off the seat (7), and opens the valve.

Liquid Soap Specification and Maintenance

(For models with "LSD" option only)

<u>Liquid soap viscosity is measured in "cps" (centipoise). The liquid soap chosen to be used with</u> <u>Willoughby's Liquid Soap Dispenser should be between 100cp and 2500cp.</u> The viscosity of the soap should be thin and free flowing. Some soap types are available in a concentrate and must be diluted with water.

<u>The pH (acidity) level should be in the range of 6.5 to 8.5.</u> Soap which is too acidic (pH less than 6.5) can corrode stainless steel and degrade rubber, plastic, or chrome-plated materials. Soap that is outside the range of 6.5 - 8.5 might be harsh on the hands or skin.

(Generally, any quality soap meeting the viscosity and pH guidelines should work well.)

Recommended Maintenance Schedule

To maintain proper function, Willoughby's Liquid Soap Dispenser should be cleaned periodically to remove soap residue. The Liquid Soap Spout should be soaked in hot water for a period of 30 minutes when cleaning is being performed. The soap tray should also be cleaned with hot water.

Care and Maintenance

Solid Surface Care

Surfaces may be easily cleaned using conventional cleaning agents such as an ammonia based liquid cleaner, (glass cleaner).

Dry stains on a matte finish can be removed with a 3M Scotch-Brite gray scouring pad or a mild abrasive cleaner.

Burns or scorches can be removed by sanding with coarse grit sandpaper followed by finer grit (220) sandpaper. Follow sanding with a 3M Scotch-Brite gray pad (or equivalent) to match finish of sanding area to surrounding area. A final buffing may be required on polished surfaces. Accidental nicks or chips can be repaired with special patch kits available in all colors.

Avoid exposing surfaces to strong chemicals such as acetone's; paint removers and sulfuric acid or hydrochloric chemical cleaners. Exposure to strong chemicals may result in permanent damage to surfaces.

Stainless Steel Care

Stainless Steels are basically alloys of iron and chromium and are corrosion resistant. Stainless steel has a bright surface that is easy to clean and is free from oxides. Therefore, cleaning of stainless steel is relatively simple and easy if done on a regular basis.

Frequency of cleaning should depend on the rate at which the fixture becomes dirty. Remember that fresh (soft) deposits of all kinds are relatively easy to remove, while removing older (hard) deposits are much more difficult. Establish a cleaning SCHEDULE.

Routine cleaning should involve ordinary soap or detergent and water, applied with a sponge, brush or cloth. Baking soda, borax or any of several non-abrasive commercial cleansing agents can help hasten the cleaning action. after scrubbing, rinse THOROUGHLY and wipe dry.

DO NOT use common steel wool, scouring pads, scrapers, wire brushes, files or other steel tools to clean stainless steel. Such items will scratch the surface or leave small particles of iron imbedded in the surface, which will eventually rust and stain the surface - even appearing as if the stainless itself was rusting.

Certain chemical compounds, if used on stainless steel, can give the appearance of rust and if allowed to stand for long periods of time, can pit the surface of stainless steel. Products containing hydrochloric acid, muriatic acid or potassium hydrochloride can ruin the surface.

Troubleshooting - Infrared Sensors

- I. Faucet does not function (red light does not appear when user steps in front of sensor)
 - A. No power to sensor. Make certain that power is on. Check transformer leads and connections. Repair or replace as necessary.
 - B. Willoughby 700150 IR Sensor not operating. Replace Willoughby 700150 IR Sensor.
- II. Faucet does not function (red light appears when user steps in front of sensor and solenoid does not click)
 - A. Debris in solenoid; disassemble, clean, and flush.
 - B. Solenoid not wired correctly; check solenoid connections.
 - C. Solenoid problem; replace solenoid.
- III. No water when activated (valve clicks)
 - A. Make certain that water is turned on.
 - B. Valve clogged. Clean or replace filter.
- IV. Very low flow or slow dribble
 - A. Check supply stop(s); open if closed.
 - B. Debris in filter; remove, clean, and reinstall.
 - C. Debris in aerator or spray head; remove, clean and reinstall.
 - D. Disassemble solenoid; clean and flush.
- V. Continues to run (with power on and red light flashing)
 - A. Non-permanent target in range after user leaves. Remove non-permanent target. If this target is a new permanent target (i.e., a new wall or partition), turn off 24 volt power for fifteen (15) seconds. Turn power back on and let the sensor complete start-up mode.
 - B. Sensor failure; replace sensor.
- VI. Continues to run (even with power disconnected)
 - A. Solenoid valve installed backwards.
 - B. Debris in solenoid, won't close properly; remove operator and clean. Reassemble in the same manner.

Troubleshooting - Electronic Valves

The two most common reasons an electronic valve does not operate properly are: (1) lack of power or (2) lack of water pressure. The following steps should be used as a guide in identifying the problem of a malfunctioning electronic valve.

- I. Lack of power
 - A. Verify that the 110V GFCI outlet has power
 - B. Check all connections to ensure they have been made correctly:
 - 1. Cable connecting the valve coil and the timer or IR sensor
 - 2. Cable connecting the timer and the pushbutton (Piezo only)
 - 3. Cable connecting the timing device and the 24VAC transformer
 - 4. The 24VAC transformer and the 110V GFCI outlet
 - C. If the valve is wired correctly, the solenoid will make a "click" sound indicating that the valve has been actuated. The electronic valve is actuated by either the piezo pushbutton or the triggering of the infrared sensor (see the Start-Up Instructions for Infrared Sensors in this manual).
- II. Lack of water pressure
 - A. Check the supply to the rough-ins
 - B. Make sure the screwdriver stops are in the open position
 - C. Water pressure needs to be above 20psi to operate the valve
 - 1. If the water supply pressure is above 20psi but not exiting the valve:
 - a. Clean any debris from the screen on the inlet side of the solenoid valve body
 - b. Remove the screws on the valve body and clean any debris from the diaphragm

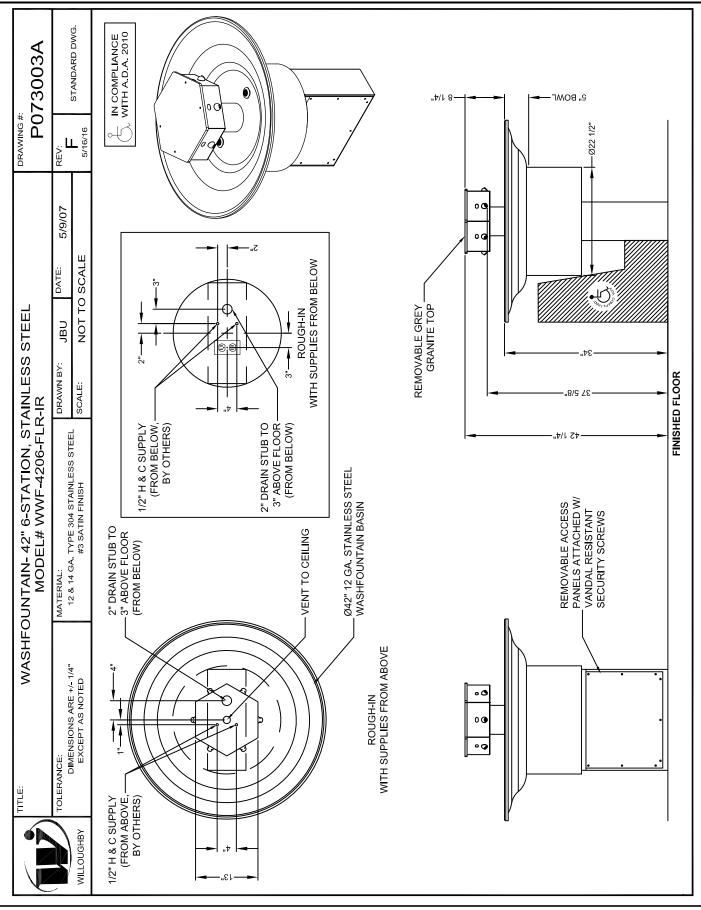
After all of the above steps have been followed, if there is still no water coming out of the spray head, there may be a damaged or defective part (see installation notice in the front of this manual).

Troubleshooting - Pneumatic Valves

- I. Valve will not open or deliver water
 - A. Check the plastic tubing that runs from the pushbutton actuator to the pneumatic valve for air leaks.
 - B. Make sure the checkstop on the supply to the valve is fully open. Do not partially close the checkstop for any reason as it is not a throttling valve. The checkstop should be fully open (normal operation) or fully closed (when servicing the valve).
 - C. Close checkstop and then inspect the strainer in the supply line (installed after the checkstop) to make sure the strainer is not blocked or partially blocked, prohibiting water flow.
- II. Valve will not shut off
 - A. Separate valve motor from casting by removing the four (4) #8 screws.
 - B. Inspect the water diaphragm assembly to see if bypass hole in diaphragm is blocked. Remove any debris by blowing on diaphragm or using force of air. Do not use any tool (such as straight pin) to remove any debris. Enlarging the hole will shorten or make for erratic cycling.
 - C. Check the metering screw on the timer assembly to make sure the adjustment screw is not closed too tightly. To reset, back out adjustment screw (counterclockwise) about 1-1/2" turns, and adjust for the desired cycle.
- III. Valve continues to trickle or partially deliver water after cycle is over
 - A. Inspect seating area on valve base to make sure no debris, pitting, or scoring is present.
 - B. Clean seat or replace seat as necessary.
 - C. Inspect seating area of diaphragm for debris, clean as necessary. If debris has caused permanent indentations in the rubber, it may have to be replaced.

After all of the above steps have been followed, if there is still no water coming out of the spray head, there may be a damaged or defective part (see installation notice in the front of this manual).

Stainless Steel 360° Washfountain WWF-4206 Series



Willoughby Industries, Inc.

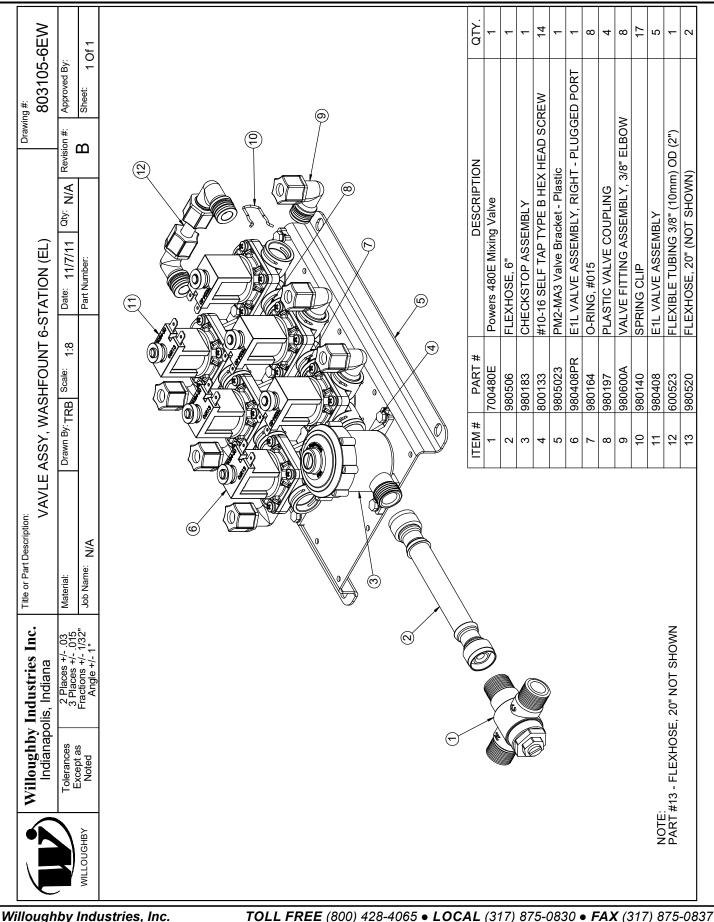
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General Dimensions and Rough-in Detail

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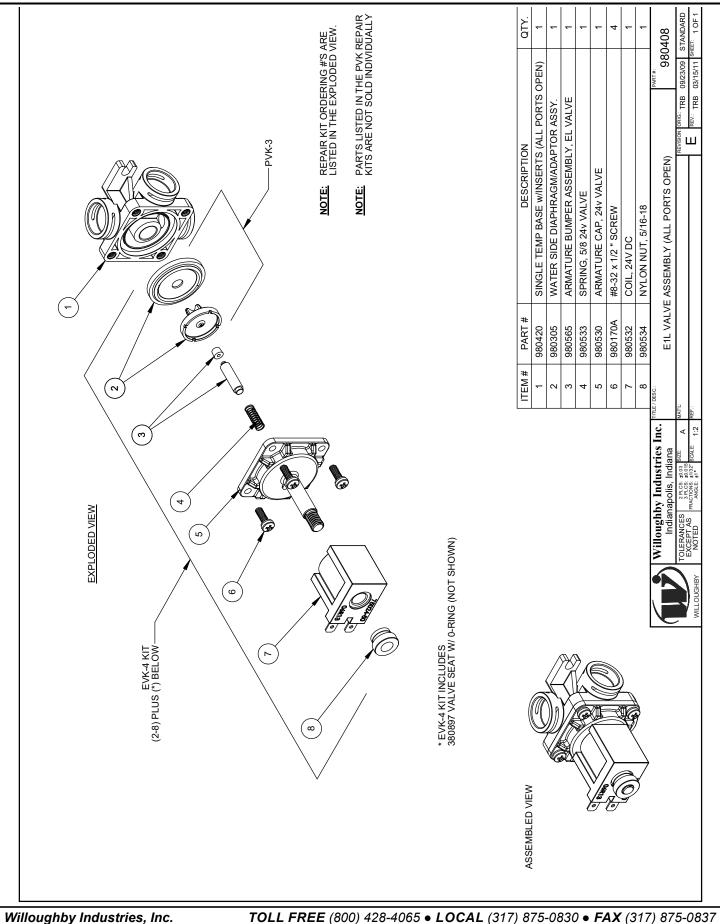
Electronic Valve Detail

DRAWING:

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Stainless Steel 360° Washfountain WWF-4206 Series

Installation & Operation Manual



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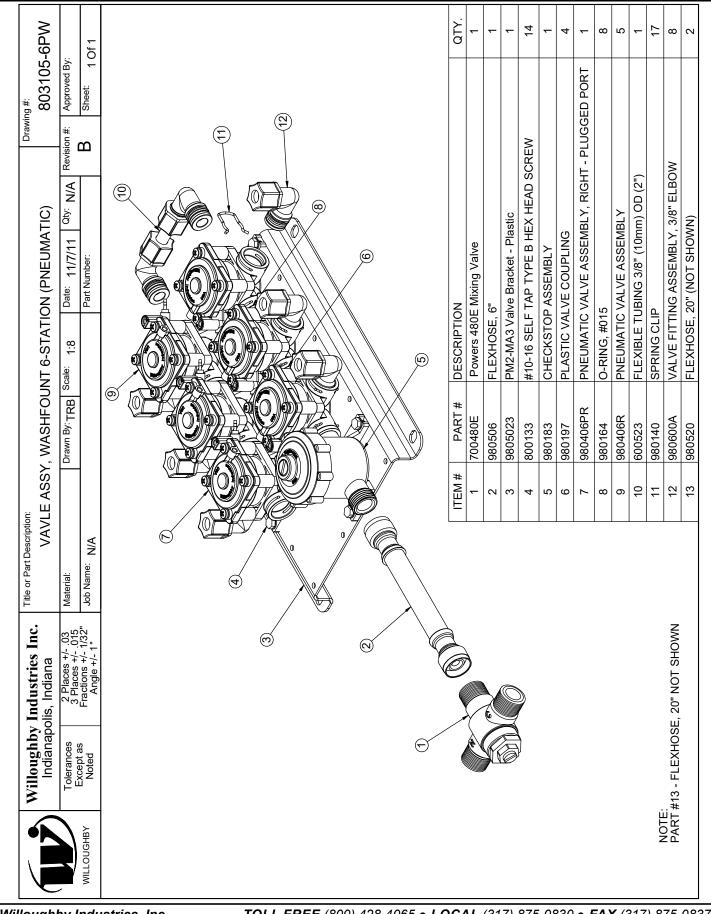
Electronic Valve Detail

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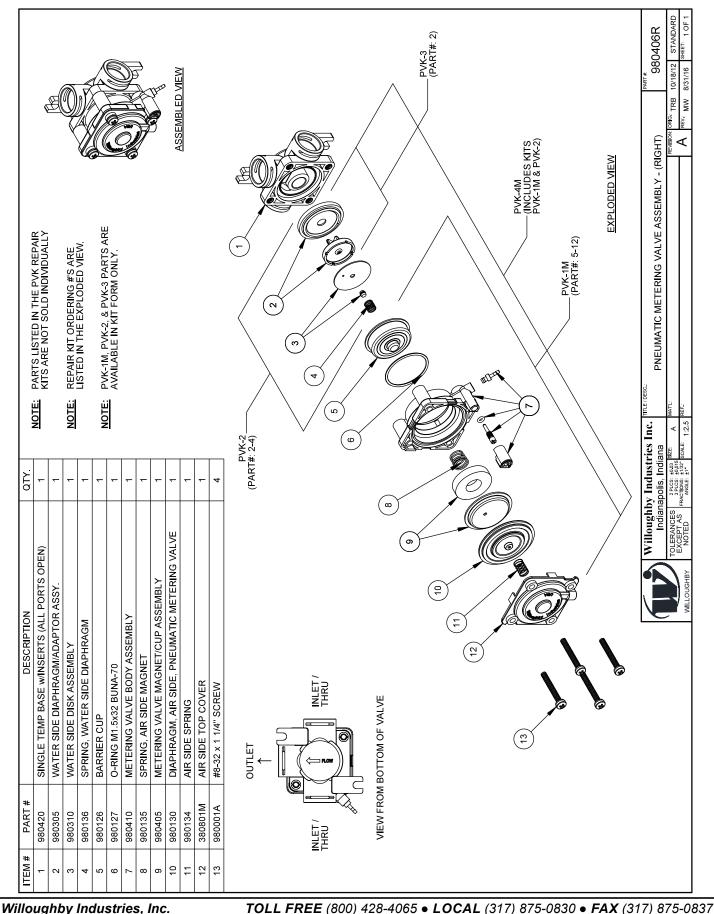
Pneumatic Valve Detail

DRAWING:

www.willoughby-ind.com

DRAWING: Pneumatic Valve Detail

Stainless Steel 360° Washfountain WWF-4206 Series

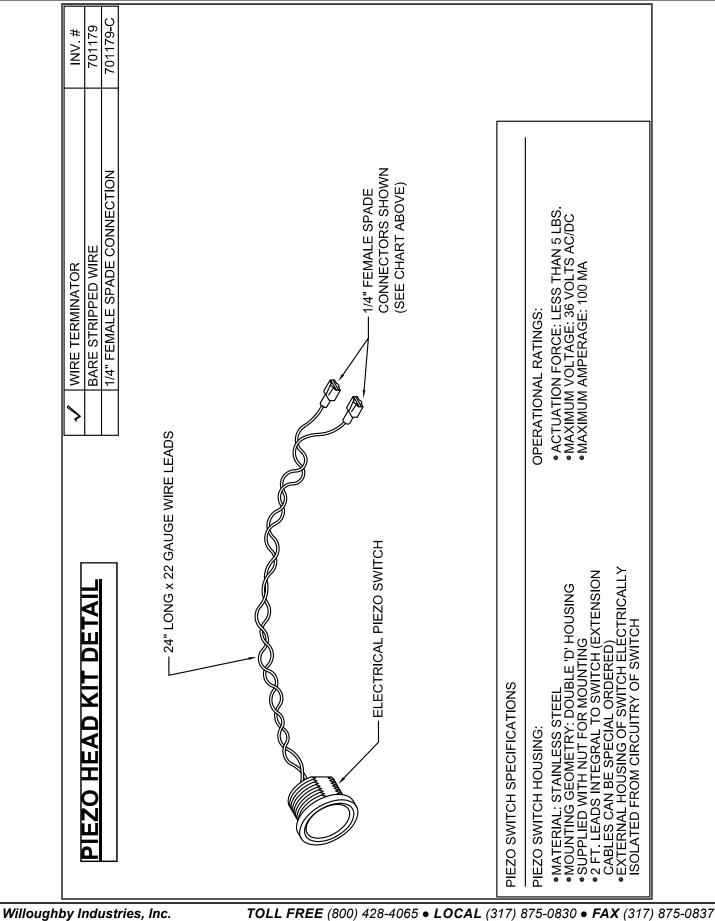


Rev. 11/2016

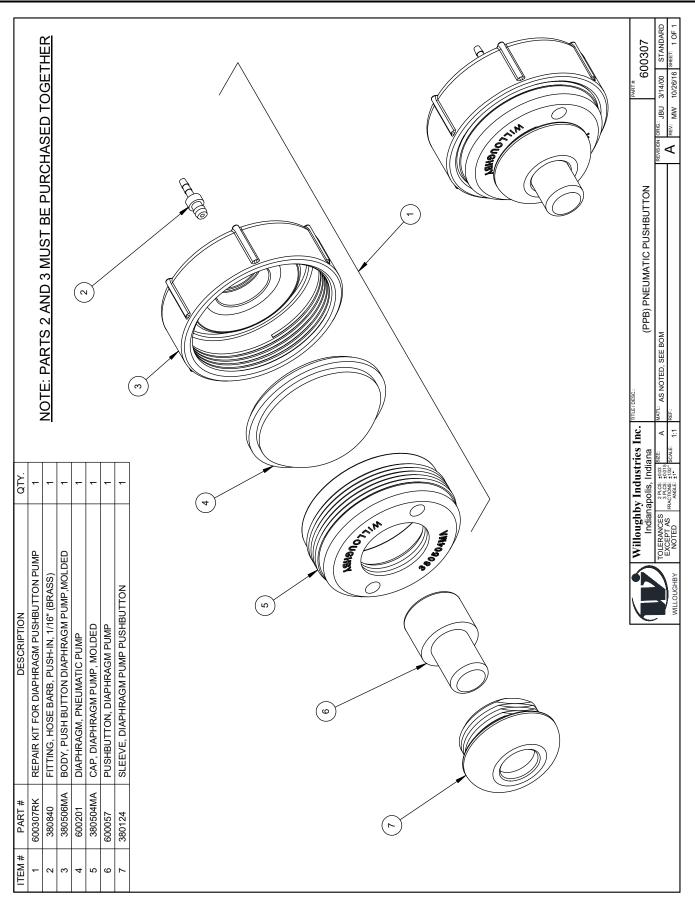
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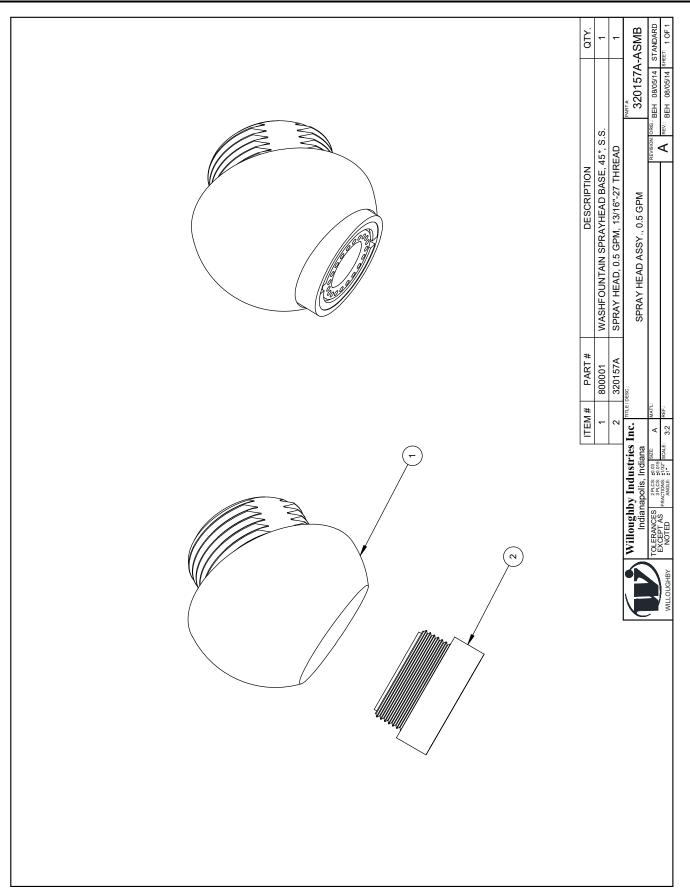
Stainless Steel 360° Washfountain WWF-4206 Series



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DRAWING: Push Button Detail



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800270C	STANDARD DWG.	of 1	QTY.	0	1					-	-		[,										
Drawing #: 800	#	12/21/12 Sheet: 1				UMP			0291)	292)	LVE (#800289)	34)	300293)	S	EM #1'S	CE PARTS					(:		$\Big\rangle$		
	Date: 12/01/03 0ty: N/A R		DESCRIPTION		E, GEN II	VALVE, SOAP PUMP	ING SEAT	ON SPRING	ON, GEN II (#80029	DY, GEN II (#800292	BUMPER-SOAP PUMP CHECK VALVE	ECKSTOP (#6002	NGER, GEN II (#8	3/16" SCKT SET S/	REBUILD KIT (ITEMS 3,4,5,6 & (2) ITEM #1'S			1		6) /	<u></u>	×			
GEN II SOAP PUMP	Scale: NONE Date:	\square		O-RING (#019)	SOAP PUMP BASE,	RUBBER FLAPPER VALVE,	SOAP PUMP SPRING SEAT	SOAP PUMP PISTON SPRING	SOAP PUMP PISTON, GEN II	SOAP PUMP BODY, GEN II	BUMPER-SOAP P	SPRING FOR CHECKSTOP (#600234)	SOAP PUMP PLUNGER, GEN II (#800293)	SCREW #8-32 x 3/16" SCKT SET S/S	REBUILD KIT (ITEN		/								
GEN	Drawn By: JR		PART #	600768	800290	800294	800295	800298	N/A	N/A	N/A	N/A	N/A	800128	800103		-				2/	Ø	7		
Description:	SEE DETAILS	N/A	ITEM	-	2	ო	4	10 V		00	6	10		12	13										12
Title or Part Description:		Job Name:																			\mathcal{A}				
	2 Places +/01 3 Places +/005	Fractions +/- 1/32" Angle +/- 3°											T						X	(4)	2)				
Willoughby Industries Indiana	Tolerances Except as	Noted				(C									3					13	
		WILLOUGHBY								//)		5)(2				

DRAWING: Liquid Soap Dispenser Detail

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<u>Warranty</u>

Solid surface products are a homogenous blend of resins, mineral filler and colorant manufactured for panels, molded and/or shaped products and components. Solid surface products provide a luxurious appearance with the durability of stain proof, impact resistant, burn resistant material with the ease of maintenance and cleaning.

Willoughby Industries, Inc. warrants to commercial and institutional purchasers only that each unit will be free from defects in workmanship and materials under normal use and service upon the following terms and conditions. The period during which components are warranted is as follows:

- 1. Solid surface components are warranted for 2 years from date of shipment.
- 2. All other components warranted for 1 year from date of shipment.

This warranty does not cover installation or any other labor charges and does not apply to any components damaged by accident, abuse, improper installation or improper maintenance. This warranty does not cover any installation that did not comply with national, state and local building, plumbing or electrical codes. The warranty is limited to replacing or repairing at manufacturer's option, transportation charges prepaid by the purchaser, any component or part which upon our inspection shall be deemed as defective within the limitations of this warranty. The replacement or repair of defective units as stated in this warranty shall constitute the sole remedy of the purchaser and the sole liability of Willoughby Industries, Inc. Willoughby Industries, Inc. shall not otherwise be liable under any indirect damages caused by defects in the repair or replacement thereof.

This warranty only extends to commercial and industrial purchasers and does not extend to any others, including consumer customers of commercial institutional purchasers. This warranty is in lieu of all other warranties, expressed or implied, including implied warranty of merchantability or fitness for a particular purpose or otherwise.