



INSTALLATION INSTRUCTIONS FOR WASHERS

MODEL NUMBER: UTS38

EN
INSTALLATION
UTS38

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Part. 13000101
Rev. 02/2019

00 SAFETY INFORMATION

0.1. Explanation of Safety Messages 1

0.2. Important Safety Instructions..... 1

0.3. Safety Decals4

0.4. Operator Safety5

01 INTRODUCTION

1.1. Delivery Inspection6

1.2. Serial Plate Location 6

1.3. Customer Service 6

02 SPECIFICATIONS AND DIMENSIONS

2.1. General Specifications 7

2.2. Machine Dimensions8

03 INSTALLATION

3.1. Requirements of Installation Location9

3.2. Foundation Requirements 10

3.3. Water Connection 10

3.4. Drain Connection 11

3.5. Electrical Installation..... 12

3.6. Connection Specifications 12

3.7. Supply Dispensing..... 13

3.8. Removal of Shipping Braces 14

04 CONTROL INTERFACE

4.1. Buttons Introduction 15

4.2. Alarming 16

4.3. Programming and setting 16

4.4. Running 16

05 OPERATION

5.1. Operation Instructions 18

06 MAINTENANCE

6.1. Maintenance 19

6.2. Daily 19

6.3. Weekly.....20

6.4. Monthly.....21

6.5. Quarterly21




6.6. Over Shake Protection21

6.7. Variable Frequency Drive (VFD)21

6.8 Troubleshooting.....22

0.1 EXPLANATION OF SAFETY MESSAGES

Precautionary statements [“DANGER,” “WARNING,” and “CAUTION”], followed by specific instructions, are found in this manual and on decals on the washer. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.


	DANGER Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
	WARNING Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.
	CAUTION Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements [“IMPORTANT” and “NOTE”] are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

0.2 IMPORTANT SAFETY INSTRUCTIONS

	WARNING To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:
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1. The actions described in these instructions are strictly reserved for personnel who have successfully completed training by UNITY LAUNDRY SYSTEMS.
2. The company responsible for the Authorized Technical Service accepts full liability for the work done and any possible consequences that may derive from it.
3. Any actions carried out by personnel who are not authorized by the manufacturer will be considered to be improper and will result in the automatic voiding of the machine’s warranty.
4. The manufacturer will not accept responsibility for any physical and/or material damage caused by actions performed on the machine undertaken by unauthorized personnel.
5. Do not store or install the machine in areas exposed to the ELEMENTS or where it may be splashed by water.


6. The room where the machine is located MUST comply with the environmental conditions (air venting, temperature, humidity, etc.) specified in the technical specifications table. NEVER INSTALL THE MACHINE IN ENVIRONMENTS where it will be splashed with water or where there is a very high level of humidity in the atmosphere.
7. Install the washer according the INSTALLATION instructions. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
8. To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
9. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
10. Never operate the washer with any guards, panels and/or parts removed or broken. DO NOT bypass any safety devices or tamper with the controls.
11. Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
12. Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. Always read and follow manufacturer’s instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times [preferably in a locked cabinet].
13. Always follow the fabric care instructions supplied by the textile manufacturer.
14. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open. Do not attempt to open the door until the washer has drained and all moving parts have stopped.
15. Be aware that cold water is used to flush the soap dispenser. Avoid opening the dispenser lid while the machine is running.
16. Do not attach anything to the supply dispenser’s nozzles. The air gap must be maintained.
17. Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
18. Be sure water connections have a shut-off valve and that fill all hose connections are tight.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. Before servicing the machine, ensure that lockout and tag out procedures are in place for both electrical and water connections.
21. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions.
22. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
23. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.

00 SAFETY INFORMATION

24. DO NOT reach and/or climb into the tub or onto the washer, ESPECIALLY if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
25. All installations required for the proper operation of the machine MUST be carried out by a duly accredited Registered Installation Contractors, in compliance with the legal regulations applicable in the country of use.
26. Avoid carrying out any action on the machine without having first read and understood the machine's Installation and Operating Manuals, paying special attention to the Safety Instructions.
27. Carrying out transport, installation, inspection routines, adjustments, maintenance, repairs, cleaning or any work on the machines without applying safety measures or having the necessary technical know-how can lead to ELECTRICAL SHOCK OR SERIOUS ACCIDENTS.
28. When tools designed for specific transport, installation, maintenance and repair routines are available, their use is compulsory in order to avoid unnecessary risks.
29. Before carrying out any procedures on machines fitted with pneumatic or hydraulic circuits:
- Make the machines COMPLETELY SAFE by following the instructions set out in the corresponding Manuals or by wedging them with wooden blocks where necessary.
 - Bear in mind that working on a component without having previously understood the role that it performs in the circuit as a whole involves a high risk of suffering a SERIOUS ACCIDENT.
30. BEFORE CARRYING OUT ANY inspection routine, adjustment, maintenance, repairs, cleaning or any work on the machine, DISCONNECT IT FROM ALL THE ENERGY SOURCES.
- COMPLETELY disconnect the machine from the power supply and prevent the possibility of accidental reconnection by mechanically locking the automatic external switch and/or the switch breaker. Stopping the machine with the NORMAL STOP key or push-button is not enough.
 - Disconnect the electrical connection of any circuit external to the machine; for example, external dosing equipment, external vending units, folders or ironer feeders. These circuits are independent of the supply to the machine.
 - Before beginning any procedure wait for at least five minutes after the electrical disconnection, to eliminate risk of residual voltage.
 - Close and mechanically lock the manual supply valves.
 - Check that the water bath has COMPLETELY drained, that no part of the machine is at an excessively high temperature and that no parts are in movement through inertia.
31. DANGER! Some fault localization procedures require checking at different points of the electric circuit with the machine connected to the power supply and other supply sources. When carrying out these procedures, respect the following instructions:
- The appropriate checks must be carried out by ONLY ONE PERSON.
 - During these procedures, ONLY remove the protective covers from the electric circuit and/or the inverter. Never remove the covers protecting the moving parts of the machine.
35. Before the washer is removed from service or discarded, remove the door to the washing compartment.
36. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.
37. THE MANUFACTURER ACCEPTS NO RESPONSIBILITY IF THESE SAFETY INSTRUCTIONS AND ALL THE INFORMATION IN THE CORRESPONDING MANUALS ARE NOT FOLLOWED. KEEP THESE INSTRUCTIONS IN A SAFE PLACE.

00 SAFETY INFORMATION

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.



WARNING








Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury, property damage, and/or equipment damage, and will void the warranty.

IMPORTANT: Ensure that the machine is installed on a level floor of sufficient strength. Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.


0.3 SAFETY DECALS

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

Use manufacturer-authorized spare parts to avoid safety hazards.

 <div>ELECTRICAL RISK Protection guard for electric components.</div>	 <div>HIGH TEMPERATURE RISK Operate with caution. Use appropriate protections.</div>
 <div>MECHANICAL RISK Protection guard for moving parts.</div>	 <div>RISK OF INHALING HARMFUL OR IRRITANT VAPORS Keep the doors/covers closed. Use appropriate protection.</div>
 <div>FLAME RISK (only on some machines) Protective guard for flame.</div>	 <div>RISK OF FALLING Use proper access and safety methods.</div>
 <div>ACCESS PROHIBITED</div>	

0.4 OPERATOR SAFETY



WARNING
NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.


The following maintenance checks must be performed daily:

- 1. Verify that all warning labels are present and legible, replace as necessary.
- 2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start.
 - b. Close the door without locking it and start the machine. The machine should not start.
 - c. Attempt to open the door while a cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly disconnect power and call a service technician.

- 3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.
 - b. Excessively high-water level is evident.
 - c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.



WARNING
Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

Thank you for the purchase of a Unity Laundry Systems washing machine. Please read this manual carefully before installing and operating the washer.

1.1 DELIVERY INSPECTION

Upon delivery, visually inspect crate, protective cover, and unit for any visible shipping damage. If signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

1.2 SERIAL PLATE LOCATION

The serial plate is located at the rear of the machine. Provide the machine’s serial number and model number for warranty information, when ordering parts or seeking technical assistance.

1.3 CUSTOMER SERVICE

If you require any technical assistance for your water washing machine in the future, please contact your local Unity Laundry Systems dealer.

02 SPECIFICATIONS AND DIMENSIONS

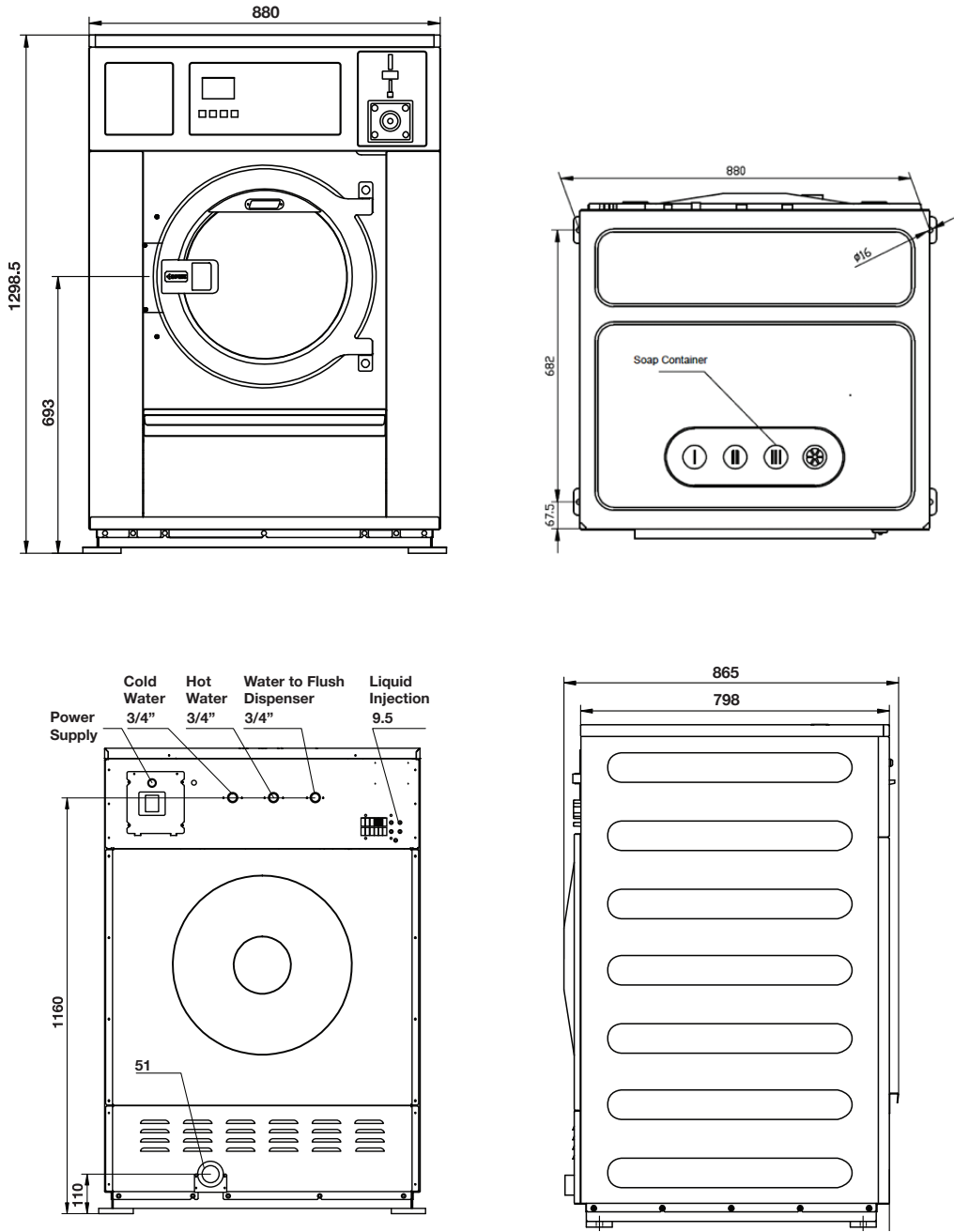
2.1 GENERAL SPECIFICATIONS

MOTOR	
Size – HP	2.4
CAPACITY	
Cylinder Volume – cu. ft. (liters)	5.3 (149.2)
Cylinder Diameter – in. (mm)	25.9 (658.6)
Cylinder Depth – in. (mm)	17.2 (438.9)
Dry Load Capacity – lb. (kg)	38 (17.2)
OPERATING SPEED & EXTRACT FORCE	
Washing Speed (RPM)	45-50
Maximum Extract Speed (RPM)	207
Maximum Extract Force (G-force)	750
CONNECTIVITY	
USB Programmability	Yes
DIMENSIONS	
Depth – in. (mm)	34.0 (865)
Width – in. (mm)	34.6 (880)
Height – in. (mm)	51.1(1,300)
CRATED DIMENSIONS	
Width – in. (mm)	39.3 (1,000)
Depth – in. (mm)	34.2 (870)
Height – in. (mm)	55.1 (1,400)
APPROXIMATE WEIGHT	
Uncrated – lb. (kg)	661.3 (300)
Crated – lb. (kg)	705.4 (320)
ELECTRICAL CONNECTION OPTIONS (VOLTS • Hz • PHASE)	
220 – 240 • 50/60 • 1 (no electrical heating)	Yes
WATER HEATING OPTIONS	
Hot / Cold Water Connections Only	Yes
WATER, CHEMICAL DISPENSING, DRAINS	
Number of Water Inlets	3
Inlet Sizes – in. (mm)	3/4 (19.0)
Number of Dispenser Compartments	4
Number of External Chemical Connections	5
Dump Valve Drain Size – in. (mm)	2 (50.8)
INSTALLATION RECOMMENDATIONS	
Minimum Clearance Between Machines - in (mm)	1.5 (40)
Minimum Clearance in front of Machines - in (mm)	39.4 (1,000)
Minimum Clearance Behind Machines - in (mm)	31.5 (800)

02 SPECIFICATIONS AND DIMENSIONS

2.2 MACHINE DIMENSIONS

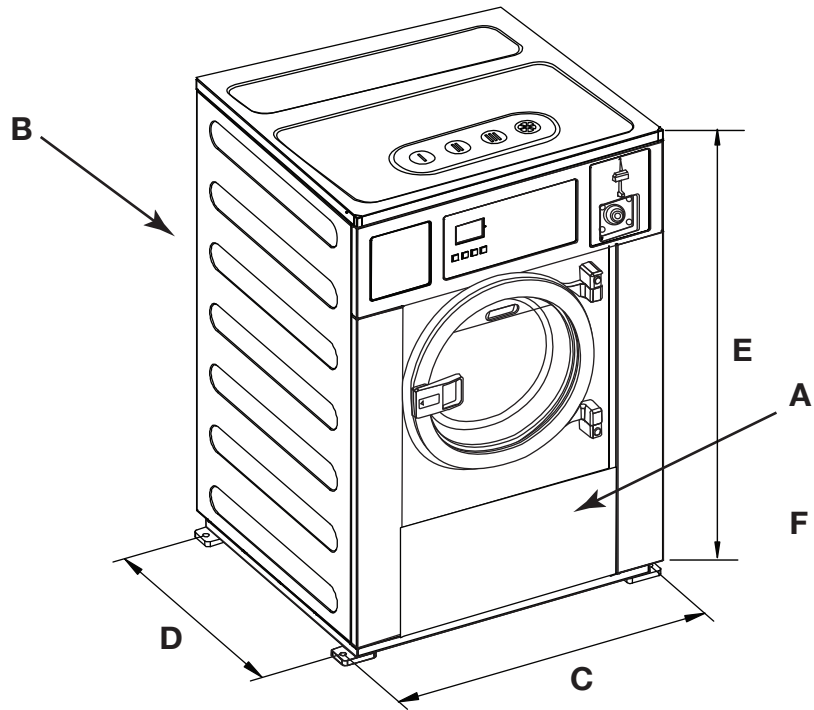
Unless otherwise specified, all dimensions are in mm.



3.1 REQUIREMENTS OF INSTALLATION LOCATION

The machine must be installed meeting the minimum distances specified to guarantee the proper operation and maintenance access of the machine.


A	Working area in front of machine - in (mm)	39.4 (1,000)
B	Maintenance area behind machine - in (mm)	31.5 (800)
C	Width - in (mm)	34.6 (880)
D	Depth - in (mm)	34.2 (870)
E	Height - in (mm)	55.1 (1,400)
F	Distance between machines - in (mm)	1.5 (40)



3.2 FOUNDATION REQUIREMENTS

The machine must be placed on a solid floor which is level in both directions, and of a sufficient strength to be able to support the weight of the machine, of any existing machinery and the means of transport.

NOTE: Do not mount on wooden floors, tile floors, elevated floor levels, stacked multiple base frames, or over basements or crawl spaces because of the high extract speed and the G-forces exerted.



WARNING

To reduce the risk of fire, serious injury, property damage and/or death, install the machine on a level, uncovered concrete floor of sufficient strength at grade.

3.3. WATER CONNECTION

To connect water service to a machine with hoses, use the following procedure:

1. Before installing hoses, flush the building's water system at the machine connection valves for at least two [2] minutes.
2. Check filters in the machine's inlet hoses for proper fit and cleanliness before connecting.
3. Hang hoses in a large loop; do not allow them to kink.

3.4 DRAIN CONNECTION

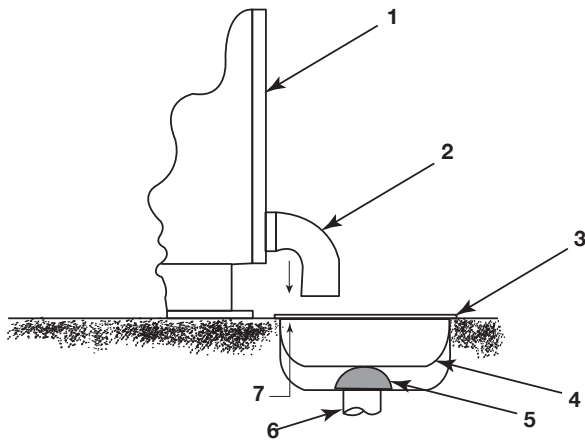
IMPORTANT: Machine must be installed in accordance with all local codes and ordinances.

All drain systems must be vented to prevent an air lock or siphoning.

If proper drain size is not available or practical, a surge tank is required. A surge tank along with a sump pump should be used when gravity drainage is not possible.

Drain Trough System

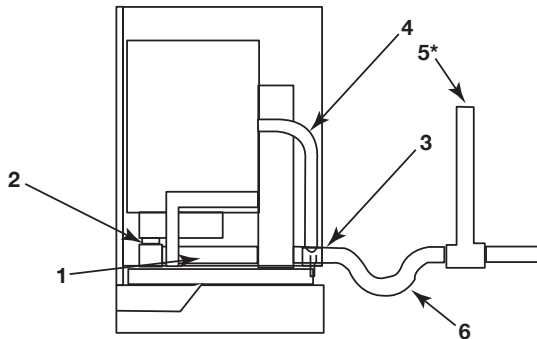
- 1. REAR OF MACHINE
- 2. DRAIN PIPE
- 3. STEEL GRATE
- 4. DRAIN TROUGH
- 5. STRAINER
- 6. WASTE LINE
- 7. 1 IN. [25 MM] MINIMUM GAP



Direct Drain System

Drain line must be vented to meet local plumbing codes.

- 1. DRAIN HOSE
- 2. DRAIN VALVE
- 3. DRAIN TEE
- 4. OVERFLOW HOSE
- 5. VENT PIPE*
- 6. TRAP [AS REQUIRED BY LOCAL CODES]




IMPORTANT: Increasing the drain hose length, installing elbows, or causing bends will decrease drain flow rates and increase drain times, impairing machine performance.


NOTE: Installation of additional machines will require larger drain connections.

3.5 ELECTRICAL INSTALLATION


IMPORTANT: Electrical ratings are subject to change. Refer to serial plate for electrical ratings information specific to your machine.



DANGER
Electrical shock hazard will result in death or serious injury.
Disconnect electric power and wait five (5) minutes before servicing.



WARNING
Dangerous voltages are present inside the machine. Only qualified personnel should attempt adjustments and troubleshooting.
Disconnect power from the machine before removing any cover and guards, and before attempting any service procedures.



WARNING
Hazardous Voltage. Can cause shock, burn or death. Verify that a ground wire from a proven earth ground is connected to the lug near the input power block on this machine.

Electrical connections are made at the rear of the machine. The machine must be connected to the proper electrical supply shown on the serial plate on the rear of the machine, using copper conductors only.

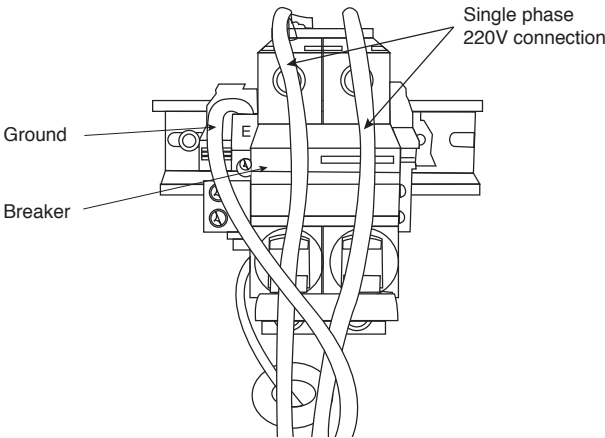
3.6 CONNECTION SPECIFICATIONS

IMPORTANT: Connection must be made by a qualified licensed electrician using wiring diagram provided with machine, or according to accepted state and local codes.

Connect machine to an individual branch circuit not shared with lighting or other equipment. Shield connection in a liquid-tight or approved flexible conduit. Copper conductors of correct size must be installed in accordance with NEC or other applicable codes.

Single-Phase Connections

FOR SINGLE-PHASE 220V INPUT, CONNECT L1, L2 AND GROUND.




Grounding

For personal safety and proper operation, the machine must be grounded in accordance with state and local codes. The ground connection must be made to a proven earth ground, not to conduit or water pipes.

3.7. SUPPLY DISPENSING

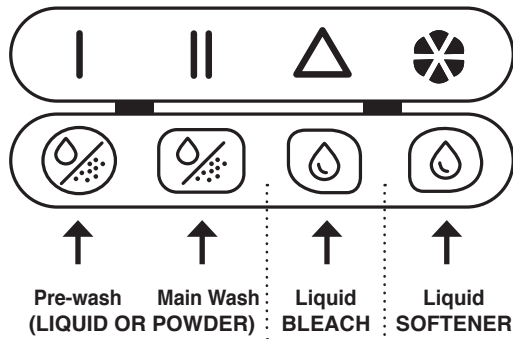
3.7.1 Manual Dosing



WARNING

Dangerous Chemicals. May damage eyes and skin. Wear eye and hand protection when handling chemicals; always avoid direct contact with raw chemicals. Read the manufacturer’s directions for accidental contact before handling chemicals. Ensure an eye-rinse facility and an emergency shower are within easy reach. Check at regular intervals for chemical leaks.

This machine has 4 liquid chemical supply and 5 external liquid supply connections.

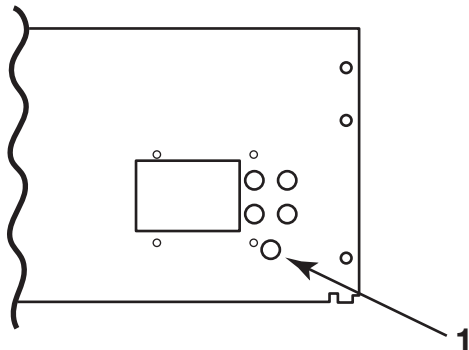


IMPORTANT: Undiluted chemical dripping can damage the machine. All chemical injection supply dispenser pumps and dispenser tubing should be mounted below the washer’s injection point. Loops do not prevent drips if these instructions are not followed.

IMPORTANT: Failure to follow these instructions could damage the machine and void the warranty.

3.7.2 External Dosing (Option)

CONNECTION OF EXTERNAL LIQUID SUPPLIES




1. Facing the rear of the machine, locate the five 3/8 inch supply hose connections found on the right-hand side of the valve panel.
2. Drill through the five plastic holes on the valve panel for the external supply hoses as needed.
3. Remove plastic debris.

4. Attach the external supply hoses to the ports at each of the drilled holes.
5. Secure with proper clamps.

NOTE: Do not attempt to make chemical injection supply pump electrical connections to points other than those provided specifically for that purpose by the factory.

NOTE: Contact manufacturer for specific parts and instructions to make electrical connection for external dosing equipment.

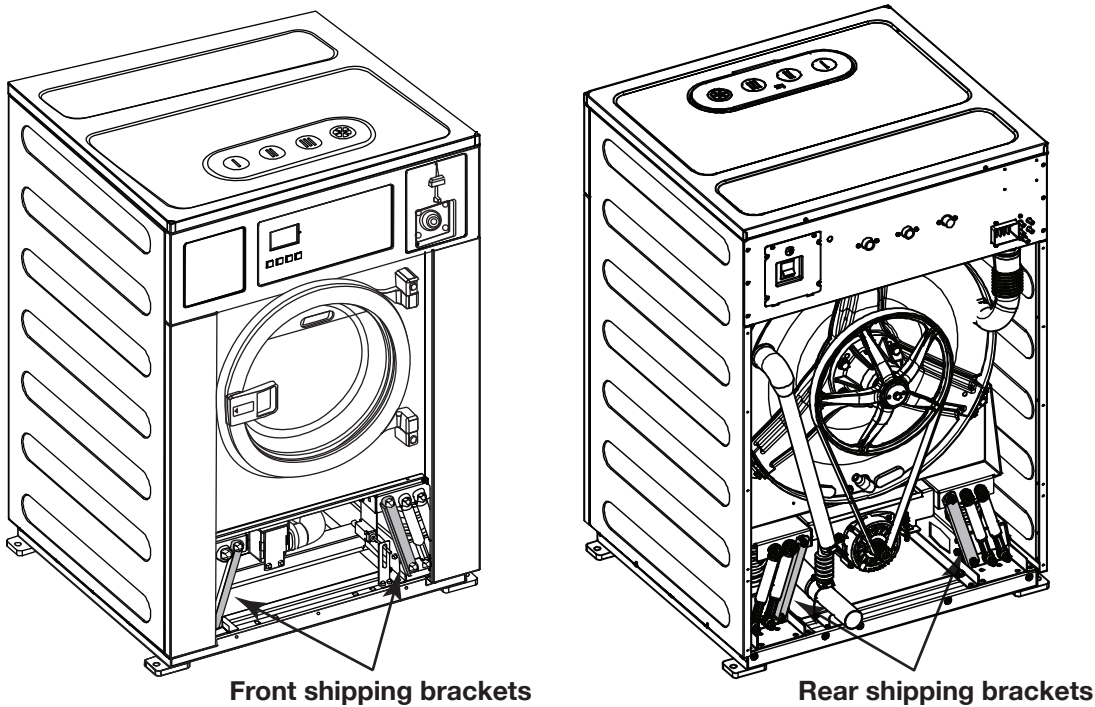
3.8. REMOVAL OF SHIPPING BRACES



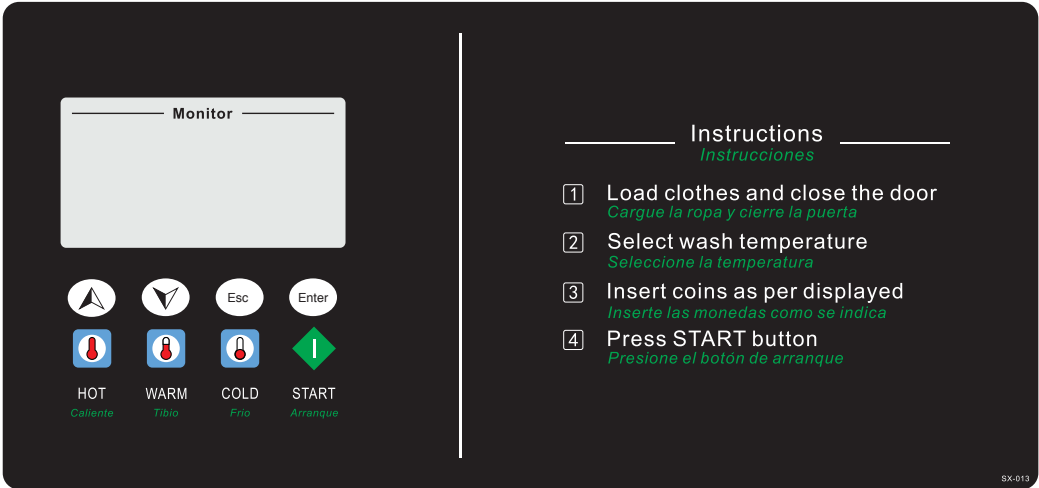
WARNING

DO NOT REMOVE THE SHIPPING RESTRAINTS BEFORE PLACING THE WASHER IN ITS DEFINITIVE POSITION. NEVER START THE MACHINE UP WITHOUT FIRST REMOVING THE SHIPPING RESTRAINTS. NON-COMPLIANCE WITH THIS PRECAUTION MAY CAUSE SERIOUS PHYSICAL DAMAGES TO PEOPLE AND IRREPARABLE DAMAGES TO THE WASHER. THE WARRANTY DOES NOT COVER THIS INCIDENCE.

After positioning, remove the lower front and back panels and remove the four shipping brackets that were used for transportation support. Save the shipping brackets. If the washer ever needs to be moved to another location, replace the transport system.



The control panel of the washer is below:



Note: the key function as shown in the figure.

The user interface is specially designed for the control of the washer for the self-service vended market. The controller provides easy operation for the user and also provides access to all the menus to setup, to diagnosing error codes, and to check the status and health of the machine.

The hot, warm, cold and start buttons are used to navigate the washer menus.

Hot - up arrow

Warm - down arrow

Cold - escape

Start - enter

4.1 BUTTONS INTRODUCTION

ICON	FUNCTION	MENU NAVIGATION
	[HOT] button Press this button to select hot water temperature.	↑
	[WARM] button Press this button to select medium water temperature.	↓
	[COLD] button Press this button to select cold water temperature.	Escape
	[Start] button Press this button to start executing the selected wash cycle.	Enter

4.2 ALARMING

When an error occurs, the computer will signal an alarm automatically with an audible sound. Pressing <Start(Enter)> button will stop the audible alarm sound. Press <Start(Enter)> button again after troubleshooting to clear the alarm. If the error has been resolved or can be ignored, the computer will go back to “open” or “close” or “locked” status or else the computer will alarm again.

NO.	ALARM NAME	TROUBLESHOOTING
#1	Error door status	Please check the door switch or door pin.
#2	Over shock	Please check if the load in the machine is too small or too large.

4.3 PROGRAMMING AND SETTING

Refer to the Operating manual.

4.4 RUNNING

Startup

After power is on, the LCD shows the startup interface for 10 seconds.

Idle

Washer-ex	X1LD041AX1700 1.V100A00 X1LL020AX26001- 1.V100A00 4
Please Select Wash Temperature	Wash Temp: Cold \$: 3.00 Paid: 0.00

Automatic Running

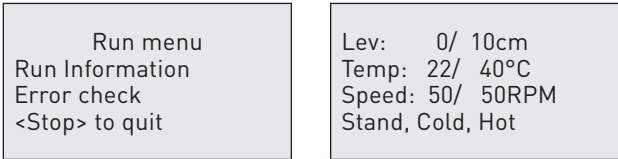
Start Automatic Running.
On the control panel choose your desired wash temperature, insert coins and them press [start] button to start the program.



Check running status message

Press [Up] and [Down] at the same time for 3 seconds to enter the “Run menu” to check the running status or error message of the cycle and machine. Your password is required to access the run status menu.

Press [Cold(Esc)] for 3 seconds to exit the running status menu.



Ending Automatic Running

After completing the cycle, the controller displays end status. The controller beeps to inform the user of a cycle completion. The buzzer can be canceled by pressing [Start] button during this beeping time.

5.1 OPERATING INSTRUCTIONS

5.1.1 Open the door

- Pull handle to open.

5.1.2 Load

- Load the machine. DO NOT OVERLOAD.

5.1.3 Close the door

- Push handle to close.

5.1.4 Select the washing program

- Select the washing program.

5.1.5 Add detergent

- Add ¼ – ½ cup liquid and/or powder detergent to supply dispenser.


5.1.6 Washing

- Press the START keypad.

5.1.7 Washing end

- When cycle is complete.

6.1 MAINTENANCE




WARNING

Sharp edges can cause personal injury. Wear safety glasses and gloves. Use proper tools and provide lighting when handling sheet metal parts.

IMPORTANT: Reinstall all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

6.2 DAILY



WARNING

Do not spray the machine with water. Short circuiting and serious damage may result.


IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Check door interlock before starting operation:
 - a. Attempt to start the machine with the door open. The machine should not start.
 - b. Close the door without locking it and start the machine. The machine should not start.
 - c. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, disconnect power and call a service technician.

2. Inspect water inlet valve hose connections on the back of the machine for leaks.
3. Inspect all chemical inlets, lines and connections for leaks.



WARNING

To reduce the risk of electrical shock, serious injury or death, disconnect the electrical power to washer-extractor before examining the wiring.

5. Verify that insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.

End of Day

1. Clean the door gasket of residual detergent and all foreign matter.
2. Clean the door glass with a damp cloth.
3. Clean automatic supply dispenser lid and general area.
4. Clean the machine’s top, front and side panels with mild detergent. Rinse with clean water. DO NOT use products that contain alcohol on the control panel.
5. Inspect and clean basket.
6. Clean lint inside of the machine weekly or more frequently as needed [where applicable].
 - a. Wash the filter with warm water and allow filter to air dry. As an alternative, the filter may be vacuumed clean.

NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup. Leave leading door open after each completed cycle to allow moisture to evaporate.

6.3 WEEKLY

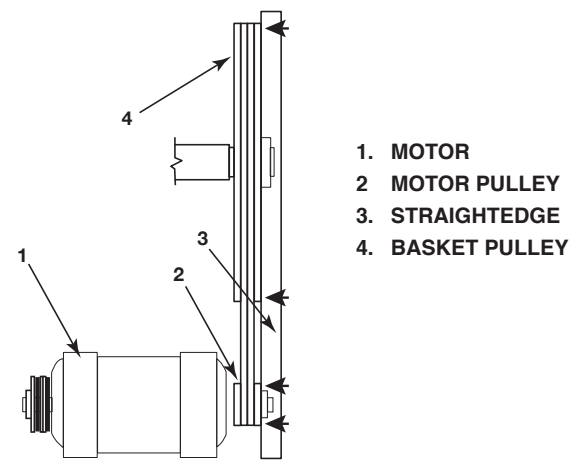
1. Check the machine for leaks.
 - a. Start an unloaded cycle to fill the machine.
 - b. Verify that door and door gasket do not leak.
 - c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the first wash segment, the drain valve is closed and functioning properly.
2. Clean lint inside of the machine weekly or more frequently as needed [where applicable].
 - a. Wash the filter with warm water and allow filter to air dry. As an alternative, the filter may be vacuumed clean.
3. On machines equipped with an automatic chemical supply system, check chemical connections by inspecting all connections and chemical hoses for leaks or cracks.

IMPORTANT: Chemical leaks can quickly cause permanent damage to the machine components and structure.

6.4 MONTHLY

NOTE: Disconnect power to the machine at its source before performing the monthly maintenance procedures. Use proper lockout/tag out (LOTO) practices.

1. Check belt for tightness and alignment. Call a qualified service technician if necessary.
- a. Check belt for uneven wear and frayed edges.
- b. For groove-pulley drive systems, verify alignment by placing a straightedge across both pulley faces. The straight edge should make contact with the pulleys in four places.



6.5 QUARTERLY

NOTE: Disconnect power to the machine at its source before performing the quarterly maintenance procedures. Use proper lockout/tagout (LOTO) practices.

1. Tighten door hinges and fasteners, if necessary.
2. Tighten anchor bolts, if necessary.
3. Check the bearing. If it is loose or noisy, call a qualified service technician if necessary.
4. Check the shock absorbers, if there is abrasion, dislocation or rupture, please adjust or replace it

6.6 OUT OF BALANCE PROTECTION

Out of Balance protection is equipped in this machine to guard against an out of balance condition. There is a jiggle switch located on the front right under side of the washer. In a severe out of balance condition the switch will be turned on and will send a signal to the computer. The machine will stop automatically by the computer, ensuring a long lifespan of the entire machine. If the switch triggers too frequently, the limiting swing can be adjusted.

6.7 VARIABLE FREQUENCY DRIVE (VFD)

1. Each parameter has been set at the factory and should NOT be adjusted.
2. The VFD status and error codes can be viewed on the controller. If you receive a VFD error, contact Unity Laundry Systems.

6.8 TROUBLESHOOTING

FAILURE	CAUSE	SOLUTION
The machine does not run	<div><div>· No Power</div><div>· Circuit Breaker Malfunction</div><div>· Controller Malfunction</div><div>· VFD Malfunction</div></div>	<div><div>· Check the circuit breaker, disconnect, and fuse</div><div>· Check the wire connection</div><div>· Check the interlock switch</div><div>· Check whether the power-on LED on the circuit board is lit, if not, notify the manufacturer</div><div>· Check the controller for VFD alarm code</div></div>
The drum is not rotating at normal speed	<div><div>· The output frequency of VFD is wrong</div><div>· Motor failed</div><div>· Bearing failed</div><div>· Belt failed</div></div>	<div><div>· Check VFD</div><div>· Check the voltage of the motor</div><div>· Check out-of-balance switch</div><div>· Check with hand whether the inner drum is turning and remove foreign objects</div><div>· Check the belt or replace if necessary</div></div>
Excessive water in the laundry	<div><div>· The drain is clogged</div><div>· VFD malfunction</div><div>· Out-of-balance switch too sensitive</div></div>	<div><div>· Check the drain valve and remove obstruction</div><div>· Contact manufacturer</div><div>· Rebalance the load</div></div>
Excessive vibration during high extract	<div><div>· Transport brackets are not removed</div><div>· The machine isn't installed level</div><div>· Out-of-balance switch malfunction</div><div>· Load is too small</div><div>· Loose bearing</div><div>· Damaged shock absorber</div></div>	<div><div>· Remove transport brackets</div><div>· Level machine</div><div>· Check out-of-balance switch and replace it if necessary</div><div>· Ensure the load is between 7-35 lbs</div><div>· Contact manufacturer</div><div>· Repair or replace shock absorber</div></div>
Door leakage	<div><div>· The door is not tight</div><div>· The door gasket is damaged</div><div>· The door is misaligned</div></div>	<div><div>· Adjust the door</div><div>· Replace the door gasket</div><div>· Check and adjust door hinges</div></div>
Drum overfilling	<div><div>· Water level sensor malfunction</div><div>· Water inlet valve malfunction</div><div>· Circuit board malfunction</div></div>	<div><div>· Check water level line, adjust or replace if necessary</div><div>· Check the water inlet valve, replace if necessary</div><div>· Replace main relay PCB</div></div>
No water in	<div><div>· No water or the water pressure is too low</div><div>· Clogged water strainer filter</div><div>· Water inlet valve malfunction</div><div>· Drain valve malfunction</div></div>	<div><div>· Check external water supply</div><div>· Clean water strainer filter</div><div>· Check the water inlet valve, replace if necessary</div><div>· Check drain valve, replace if necessary</div></div>
Water leaking	<div><div>· Drain valve malfunction</div><div>· Hoses leaking</div></div>	<div><div>· Check drain valve, replace if necessary</div><div>· Check hoses and hoses connections, replace or tighten if necessary</div></div>

06 MAINTENANCE

FAILURE	CAUSE	SOLUTION
Unable to obtain desired temperature	<ul style="list-style-type: none">· Temperature sensor malfunction· The hot water inlet valve malfunction	<ul style="list-style-type: none">· Check the temperature sensor, replace if necessary· Check hot water inlet valve
Chemical dispenser not flushing	<ul style="list-style-type: none">· No water or the water pressure is too low· 4-way water inlet valve malfunction	<ul style="list-style-type: none">· Check external water supply· Check program settings, modify if necessary· Check the 4-way inlet valve, replace if necessary

