



## **USER MANUAL**

**SPRAY GUN CLEANER - WATER BASED PAINTS**

# **UG4000 "W" SERIES**

### **CAUTION**

**FOR WATER BORNE PAINTS ONLY**

**THIS UNIT IS NOT DESIGNED  
FOR USE WITH SOLVENT BASED PAINT**

**UNI-RAM CORPORATION • ONTARIO • CANADA**

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## INTRODUCTION

Uni-ram Corporation holds many patents on designs used in its innovative products. Every machine is tested for compliance with Quality Assurance standards. Follow the directions in this manual under Setup, Operation and Maintenance in order to operate this machine safely and effectively. Not following these instruction can lead to malfunction or damage to the machine. Ensure that the manual is readily available for the operator at all times. If you have any questions about the operation of this machine, call your distributor.

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## SETUP

### DELIVERY INSPECTION

- Inspect the shipping carton for any sign of transport damage. Carefully remove the unit from the shipping carton and check the unit for damage. Report any transport damage immediately to the carrier and your vendor. Initiate a freight claim with the carrier. The manufacturer is not responsible for the freight damage.
- Check for the parts listed below. If any are missing, contact your supplier.

### INCLUDED PARTS (Note optional items for some models)

1	MANUAL
1	NOZZLE EXTENSION, REGULAR
1	NOZZLE EXTENSION, PPS
2	TRIGGER CLAMP & PLUG KIT
1	AIR BLOW GUN
2	AQUA-KLEEN PGC (OPTIONAL FOR SOME MODELS)
2	PAILS (OPTIONAL FOR SOME MODELS)

### LEVELING AND AIR SUPPLY

- Level the machine using the adjustable legs.
- If required, attach a Moisture Filter (not supplied) to the Air Inlet, then attach an air supply adapter (not supplied) to the Moisture Filter.

The air supply pressure must be at least 85 PSI and the air must be free from contaminants such as water, dust, rust, tar, grease etc.

To prevent damage to the Diaphragm Pump an internal Air Pressure Regulator has been installed to limit the air pressure to precisely 85 PSI. Do not install a second air pressure regulator or use **a pressure set below 85 PSI.**

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## PAIL SETUP

### For enhanced cleaning, use Uni-ram Aqua-Kleen PGC in each pail (not included with all models).

- Open the door to the base cabinet
- Move the Drain Valve handle to the "closed" (horizontal) position if it is not already there.
- Two 5-Gal (19 L) pails of water are required, one full and one containing 3 gal. Place the pails in front of the machine - full pail on the right ((CLEAN RINSE) and the partially filled pail on the left (WASH). If Aqua-Kleen (optional) is to be used, add a full bottle (946 ml) to the full pail on the right and a partial bottle (three-fifths) to the partially filled (WASH) pail on the left.
- Inside the cabinet you will see two pipes strapped together, the Suction Pipe (with a black section at the top) and the Rinse Pump (all silver). Cut the strap holding them together. Do not cut the other straps holding the black and blue tubes.
- Disconnect the Suction Pipe from the Drain Valve by pushing the gray button and bring both pipes outside of the cabinet.
- Insert the Rinse Pump into the full pail on the right and the Suction Pipe into the pail with 3 gal on the left. Re-connect the Suction Pipe to the Drain Valve. If the Flow-through Brush is being used for manual pre-cleaning, the supply tube for the Brush should be inserted through the lid of the left (WASH) pail. If the Flow-through Brush is being used for manual cleaning after the Auto cycle, check to make sure the tube for manual clean rinse is inserted into the lid of the right (CLEAN RINSE) pail.
- Move the pails into the cabinet and re-connect the Suction Pipe of the left pail to the Drain Valve.

## INSTALL AIR BLOW GUN (Shipped with the Accessory Kit)

Insert the blue tube into the outlet on the side of the tank and store the Gun in the bracket.

## OPERATION

### PRE-CLEAN

- Disconnect the spray gun from the air hose. Pour paint from the cup (when present) into a 5 gallon pail (not supplied).
- Rinse cup with water and pour into the same 5 gallon pail for later disposal or recycling.

### CLEANING SPRAY GUNS AND CUPS

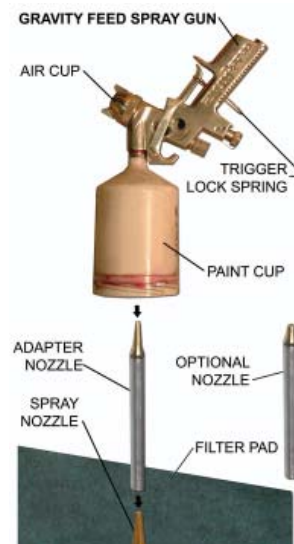
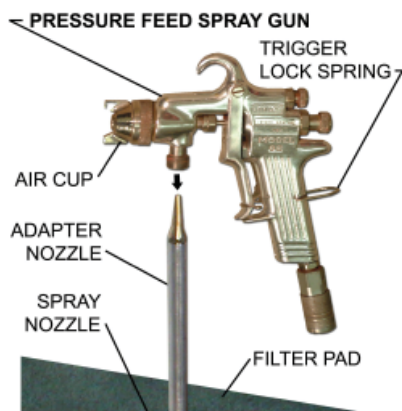
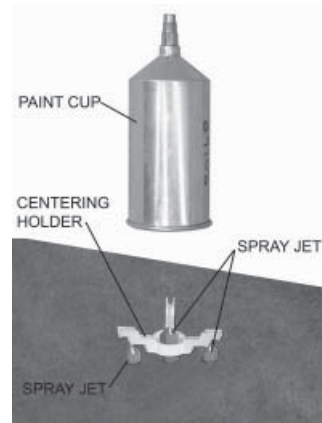
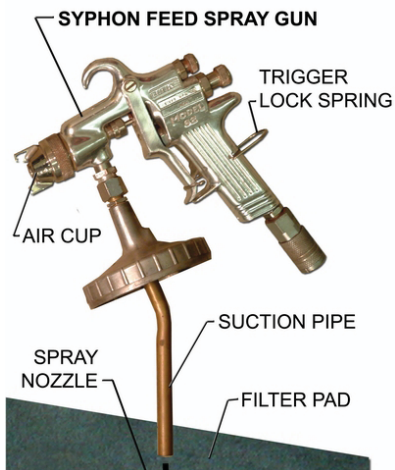
**NOTE: During automatic cleaning, air is mixed into the cleaning water/solution to improve the cleaning process.**

- Loosen the air cap of the spray gun two full turns.
- Lock the trigger in the open position with the Trigger Clamp.
- Using the knurled nut, plug the air inlet of the spray gun to prevent water from entering passage.
- Place spray guns facing corner jets. Placement depends on type of spray gun. (See pictures on next page.) Place cups onto the low spray jets and cup holders.

Note on Gravity Feed Spray Gun: Some customers prefer to clean the cup separate from the spray gun.

- Close the lid and turn the "Auto Wash Timer" knob clockwise to start cleaning. Start with 5 minutes (maximum setting marked "5") and reduce the cleaning time on subsequent runs if desired.
- Push and hold the "Air Rinse" button for about 3 second to air-rinse the guns.
- Push and hold the "Clean Rinse" button for about 5 seconds to rinse guns with clean water. This will send a pre-set amount of clean water (100 cc) through the jets. Wait 30 seconds for the Rinse Pump to fully recharge before repeating.

The water flow per clean-rinse cycle is limited to 100 cc to minimize consumption. This quantity is usually sufficient to clean the inside passages of the spray guns.



## Manual Wash

The Flow-through Brush is used to manually clean guns.

- Make sure the Brush supply tube has been inserted into the correct pail (see the section: PAIL SETUP).
- To clean with the Brush, open the lid and step on the Foot Pedal.

## Manual Dry

The Air Blow Gun is used to manually dry the guns. First remove the Trigger Clamp and Plug.

In turn, separately dry the paint channel, the air channel and the exterior of the gun. Wipe guns dry as necessary.

## AFTER CLEANING

Do not store spray guns in the tank.

**MAINTENANCE**

- Inspect the screen at the bottom of the tank and clean when necessary.

**REPLACING WASH WATER**

- Disconnect the Suction Pipe from the Drain Valve and remove the pipe from the pail. Move the pail out of the cabinet dispose of the wash water.
- Remove the Rinse Pump from the other pail, move the pail out of the cabinet and locate on left side for use with the suction pipe.
- Replace as described in the Pail Setup section.

**TROUBLESHOOTING**

SYMPTOM	REASON	CORRECTIVE ACTION
WASH LIQUID DOES NOT FLOW AND PUMP MAKES A PUMPING NOISE	Drain valve closed	Open drain valve (put in verticle position), if not already open Check wash liquid level. Add liquid if less than 1/2 full.
	Liquid level too low	Check wash liquid level. Add liquid if less than 1/2 full.
	Paint debris in pump	Follow Procedure 1, "Blocked Fluid Passage in Diaphragm Pump"
WASH LIQUID DOES NOT FLOW AND PUMP MAKES A HISSING NOISE	Water in air line causes pump to stall	Follow Procedure 2, "Blockage in Air Passage in Diaphragm Pump"
WASH LIQUID DOES NOT FLOW AND PUMP DOES NOT MAKE A NOISE	Pump leaks	Replace pump
	Blockage in air passage	Follow Procedure 3, "Blocked Passage in Air Line".
PUMP DOES NOT STOP UNLESS TIMER IS TURNED BY HAND OR AIR IS SHUT OFF	Defective Timer	Follow Procedure 1, "Blocked Fluid Passage in Diaphragm Pump"
INSIDE WALL OF TANK IS COATED WITH PAINT EVEN THOUGH OPERATOR MAINTAINS TANK	Cleaner lacks cleaning strength	Replace liquid cleaner.
GUNS NOT CLEAN, PUMP WORKING	Trigger not locked in open position	Use Trigger Clip
	Cleaning solution is dirty	Replace
	Filter is clogged.	Replace

## TROUBLESHOOTING PROCEDURES

### PROCEDURE 1

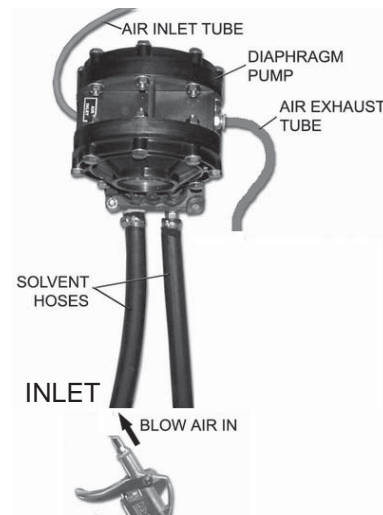
#### Blocked Fluid Passage In Diaphragm Pump

If the pump sounds like it is working but liquid does not flow, clear the fluid passage as follows:

- Remove suction tube from the pail and blow air at 85 PSI into the INLET Sovent Hose (see diagram). Step on foot pedal. This procedure may have to be repeated several times. If this procedure does not help, blow some water into the suction hose using a spray gun, wait one minute and step on foot pedal. This procedure may have to be repeated several times. If this procedure does not work, the pump must be replaced.

If you need to replace the pump call your local dealer. The warranty on the diaphragm pump is two years from date of purchase.

This procedure will also clear a blockage in the fluid line for the wash gun.

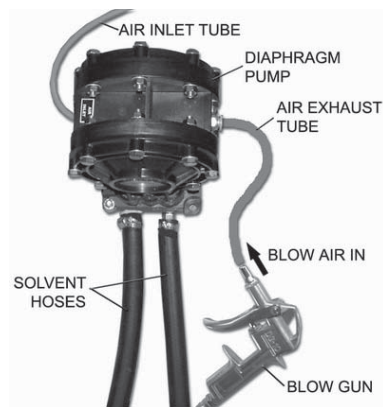


### PROCEDURE 2

#### Blocked Air Passage In Diaphragm Pump

If there is a steady hissing sound and the pump is not cycling, the spool valve has stalled due to a blocked air passage. Follow the procedure below to clear the blockage.

- Connect a blow gun to an 85 PSI source. Locate the blue hose that extends from the air exhaust port of the diaphragm pump. Use a blow gun to blow air into the open end of this hose. Turn timer. If the procedure is successful, the pump will start working. The procedure may have to be repeated several times. If this procedure does not work, replace the pump.
- Cause:** Contaminants in the air supply (water, oil, solid particles etc)
- Preventative Action:** If necessary, install an Airline (Moisture) Filter.



### PROCEDURE 3

#### Blocked Passage in Air Line

The components in the air line are the **diaphragm pump, air valve, foot pedal, 3-way ball valve and regulator.** See the **Flow Diagram** and the section: **Replacement Parts.**

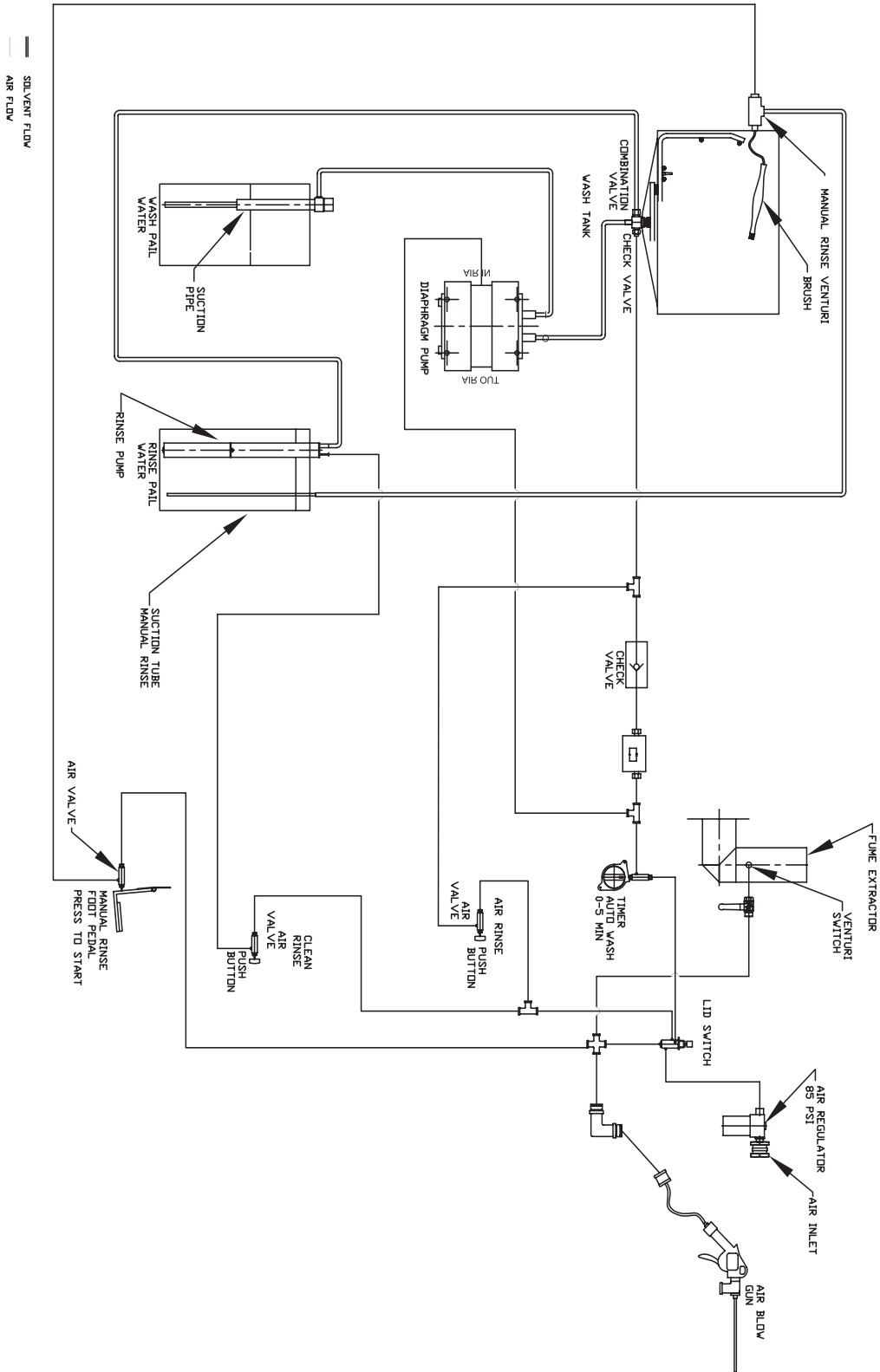
To troubleshoot a component:

- 1) Disconnect the air line to the component using the quick disconnect.
- 2) Step on foot pedal and check for presence of positive air pressure in the air line. If there is ample positive air pressure, replace the component.

If air pressure is absent, there is a faulty component upstream. Reconnect the air line and check the operation of the next component upstream by following steps 1 and 2 above.

### FLOW DIAGRAM(S)

Use the diagram(s) to trace the flow of compressed air and liquid.





**REPLACEMENT PARTS**

<b>DESCRIPTION</b>	<b>Part Number</b>
FLOW-THROUGH BRUSH	144-390
DIAPHRAGM PUMPUDP4TA	UDP4TA
AIR BLOW GUN	102-7010
TIMER KIT	115-200/K
PEDAL VALVE	115-400BF
PEDAL VALVE, COMPLETE ASSEMBLY	780-4300
NOZZLE EXTENSION, REGULAR	110-430
NOZZLE EXTENSION, PPS	110-437
TRIGGER CLAMP & PLUG KIT	140-2340
NOZZLE EXTENSION, PPS, THREADED	110-437

## Full Product Warranty

These products have been engineered and manufactured to high performance standards. Each unit has been subjected to detailed factory testing before shipment.

This product comes with a one-year full warranty from the date of purchase. The manufacturer reserves the right to repair or replace the unit, free of charge, to the original purchaser if a part is found to be defective in material or workmanship as determined by factory service personnel. The items listed below under "Conditions of Warranty" as consumables are not covered.

The manufacturer reserves the right to direct the customer to ship the unit collect to the factory or to an approved Service Center for repair or to repair the unit on-site. To prevent damage in transport, the purchaser must ship the unit in the original packaging or use alternate adequate packaging. All units must be **shipped clean and free of liquid.**

### Diaphragm Pump:

We are pleased to advise that the warranty on the diaphragm pump, the heart of the spray gun cleaner, comes with a 2 year replacement warranty. If, in the unlikely event your diaphragm pump fails during the first two years of service, call for service. The manufacturer will send you a new pump free of charge and arrange for the return of your original pump.

### Conditions of Warranty:

As the manufacturer has no control over the working conditions or circumstances under which the purchaser stores, handles or uses the product, the manufacturer makes no warranty or claim, either expressed or implied with respect to this product's fitness for any purpose or the result to be obtained from its use. This condition applies to the sale of all products and no representative or distributor has the authority to waive or change these conditions.

This warranty applies only to the original purchaser and does not apply if the unit has been misused, overloaded, neglected, altered or used for any purpose other than those specified in the operating and installation instructions. Deterioration due to normal wear is not covered by this warranty. Damage due to accident, transportation, fire, floods or acts of God is also not covered. Units whose serial numbers have been altered or removed are not covered. The warranty is invalid if unauthorized chemicals as noted in the manual or liquids with acid content are used in this unit. Unauthorized attempts at self-repair or alterations by the owner also invalidate this warranty. Interior or exterior finishes are not covered by this warranty.

Consumable Items are not covered by this warranty (eg: gaskets, screens, bags, filters, nozzles and air jets).

This warranty replaces all other warranties expressed or implied by statute or otherwise.

**To make a claim, call for service and quote the serial number of the unit.**