



# OPERATING MANUAL

MANUAL WATERBORNE GUN CLEANER

UM120W

**CAUTION**  
FOR WATERBORNE 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 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 to operate this machine safely and effectively. Not following these instructions can lead to malfunction or damage to the machine. Follow directions on labels attached to the machine and ensure that the manual is readily available to the operator at all times. If you have any questions about the operation of this machine, call your distributor or a Uni-ram Service Engineer:

North America: Uni-ram Technical Service 1-800-417- 9133

Other Continents: Contact Your Supplier

## SETUP

### INSPECTION

- Report any transport damage immediately to the carrier and your vendor. Initiate a freight claim with the carrier. The manufacturer is not responsible for freight damage.

### INCLUDED PARTS (see Replacement Parts section for part numbers)

- Manual
- Spray Containment Chamber
- COAG-KLEEN FP, flocculant granules
- Air Blow Gun
- Wash Gun
- Coupler for Whip Line

### LEVELING AND AIR SUPPLY

- Level the machine using the adjustable legs.
- Remove the cover on the "Air Input" (right side of machine) and attach an air supply adapter (not supplied).

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. Do not install a second air pressure regulator or use a pressure set below 85 PSI.

### INSTALL WASH GUN, BLOW GUN and WHIP LINE COUPLER

Remove the Coupler, Wash Gun with Splash Guard and the Blow gun from the Accessory Kit bag (inside the tank). Connect the blue line to the Blow Gun and the black line to the Wash Gun and hang them on the brackets (right side). On the left side, connect the coupler to the orange line and hang on the bracket. The Whip Line Coupler is female. If necessary, use an adapter to fit your spray gun.

### PAIL SETUP and ADDITION OF UNI-RAM AQUA-KLEEN

Aqua-Kleen is a state-of-the-art cleaning additive with an enhanced corrosion inhibitor for optimal protection of your expensive spray guns.

- Open the door to the base cabinet
- Move the Drain Valve handle to the "closed" (horizontal) position if it is not already there.
- Move the pail outside the unit. Remove the two filters. Pour a full bottle of Uni-ram Aqua Kleen into the pail and add tap water until the combined liquid level reaches the bottom of the filter holder. Replace filter.
- Insert the manual wash suction tube into the pail between the Filter Holder and the wall of the pail. Move the pail into the cabinet.



## OPERATION

**NOTE: WATERBORNE PAINT DRIES QUICKLY! TO MINIMIZE HARDENING OF THE PAINT, BEGIN CLEANING AS SOON AS POSSIBLE AFTER COMPLETION OF THE PAINT JOB.**

### PRE - CLEAN WHEN USING A NON DISPOSABLE CUP SYSTEM

Skip this step if you use a disposalable cup system.

- Disconnect the spray gun from the air hose. Pour paint from the cup (when present) into a 5 gallon pail (not supplied).

### CLEAN SPRAY GUNS

- Ensure the the ball valve located inside the cabinet is closed so that the used water accumulates in the reservoir under the Work Screen.
- If the main air supply is not connected, connect the whip line to the spray gun.

**NOTE: CLEANING WITHOUT A SOURCE OF AIR COULD ALLOW WATER TO CONTAMINATE THE AIR CHANNEL.**

### CLEANING WITH THE WASH GUN

- To clean with the Wash Gun, make sure the Brush Control Lever on the front of the unit is in the "Close" position (horizontal). Place the Spray

Containment Chamber on the Work Screen in the wash tank. Point the cap of the spay gun into the Spray Containment Chamber as shown in photo. Place the nozzle of the Wash Gun into the paint channel (where the cup joins the spray gun) as shown in photo.



Wash Gun

Spray Con-  
tainment  
Chamber

- Step on the foot pedal and squeeze the trigger of the spray gun while squeezing the trigger of the Wash Gun to send a pressurized flow of water through the paint channel. Use the Wash Gun Flow Control on the side of the cabinet to adjust the flow. The Spray Containment Chamber contains the spray. Allow water to flow for about 20 seconds to clean the paint channel.

### CLEANING WITH THE BRUSH

- If necessary, use the Flow-through Brush to clean the outside of the spray gun. Make sure the Brush Control Lever on the front of the unit is in the "Open" position (vertical). Step on the foot pedal to send a pressurized flow of water through the Brush. To control the flow of water through the Brush, use the Brush Flow Control on the side of the cabinet.
- Use the blow gun to dry the outside of the spray gun.
- To maximize the drying operation, dry the paint channel with the Blow Gun while squeezing the trigger of the spray gun. As a final check for dryness, remove the cap and check it for moisture.

NOTE: THOROUGH DRYING OF THE GUN BOTH INSIDE AND OUT WILL PREVENT CORROSION.

## WATER TREATMENT

When no water remains in the water container under the cleaning tank it is time to treat the dirty water. There are 2 choices. Use a Uni-ram liquid recycler to recycle the dirty water or flocculate and filter the dirty water. The flocculation / filtering process is described next.

- Remove the Work Screen and the side rails. Sprinkle 2 full scoops\* of the flocculant, COAG-KLEEN, evenly over the dirty water. Close the lid and turn the Flocculation Timer fully. When the Timer is finished wait 2 minutes and turn the timer a second time to the one minute mark.
- Open the drain valve, located under the cleaning tank to drain and filter the dirty water. Note: As the flocculation proceeds, the water should become clear. The debris consisting of paint absorbed into the flocculant will collect in the filters. Clean the tank with the wash gun, wipe off the screen and rails, reinsert them and then close the drain valve. Ensure that the Air Agitator in the bottom of the tank lies flat.
- Remove the two filters containing the debris and set aside for about 20 minutes to dry. When the debris is dry, it should have an "oatmeal like" consistency. The debris should be disposed of according to local environmental regulations.
- If the filtered water is not clean, see the Troubleshooting section.
- The treated water can be reused until it becomes "silky" to the touch and then it should be disposed of according to local environmental regulations. When adding fresh water, refill until the water reaches the bottom of the filter holder.
- Reuse the filters and replace as required.

\* Each scoop = 1 fl oz or 34g of flocculant; 2 kg = about 50-58 scoops.

## TROUBLESHOOTING

SYMPTOM	REASON	SOLUTION
WASH WATER DOES NOT FLOW AND PUMP MAKES A HISSING NOISE	<ul style="list-style-type: none"> <li>• Wash pail empty</li> <li>• Paint debris in pump</li> </ul>	<p>After Each Step Below, step on the foot pedal. If water does not flow, carry out the next step.</p> <ul style="list-style-type: none"> <li>• Check wash water level.</li> <li>• Follow Procedure 1, Blocked Fluid Passage in Diaphragm Pump.</li> </ul>
WASH WATER DOES NOT FLOW AND PUMP MAKES A HISSING NOISE	<ul style="list-style-type: none"> <li>• Water in air line causes pump to stall</li> </ul>	<ul style="list-style-type: none"> <li>• Follow Procedure 2, Blockage in Air Passage in Diaphragm Pump</li> </ul>
WASH WATER DOES NOT FLOW AND PUMP DOES NOT MAKE A NOISE	<ul style="list-style-type: none"> <li>• Blockage in air passage</li> <li>• Pump leaks</li> </ul>	<ul style="list-style-type: none"> <li>• Follow Procedure 3, Blocked Passage in Air Line</li> <li>• Replace pump</li> </ul>
PUMP DOES NOT STOP WHEN FOOT REMOVED FROM PEDAL	<ul style="list-style-type: none"> <li>• Air valve stuck</li> </ul>	<ul style="list-style-type: none"> <li>• Replace air valve</li> </ul>
WET FLOOR	<ul style="list-style-type: none"> <li>• Too much water in the system</li> <li>• Filter is blocked.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove excess water (more than 19L)</li> <li>• Clean or replace filter.</li> </ul>
FILTERED WATER IS NOT CLEAN	<ul style="list-style-type: none"> <li>• Not enough flocculant</li> <li>• Not enough agitation</li> <li>• Filter needs to be replaced</li> </ul>	<ul style="list-style-type: none"> <li>• Do filtering procedure again. Add 1-2 extra spoonfuls of flocculant.</li> <li>• Ensure that the Agitator is flat on the bottom of the tank and the air pressure to the unit is at least 40 PSI. Do filtering procedure again including adding flocculant.</li> <li>• Replace filter.</li> </ul>
FILTERED WATER HAS A "SILKY" FEEL	<ul style="list-style-type: none"> <li>• Filtered water has been used too often</li> <li>• Too much flocculant has been added</li> </ul>	<ul style="list-style-type: none"> <li>• Dispose of filtered water.</li> <li>• Reduce the amount of flocculant added next time.</li> </ul>

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## 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 60 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 60 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 and regulator.

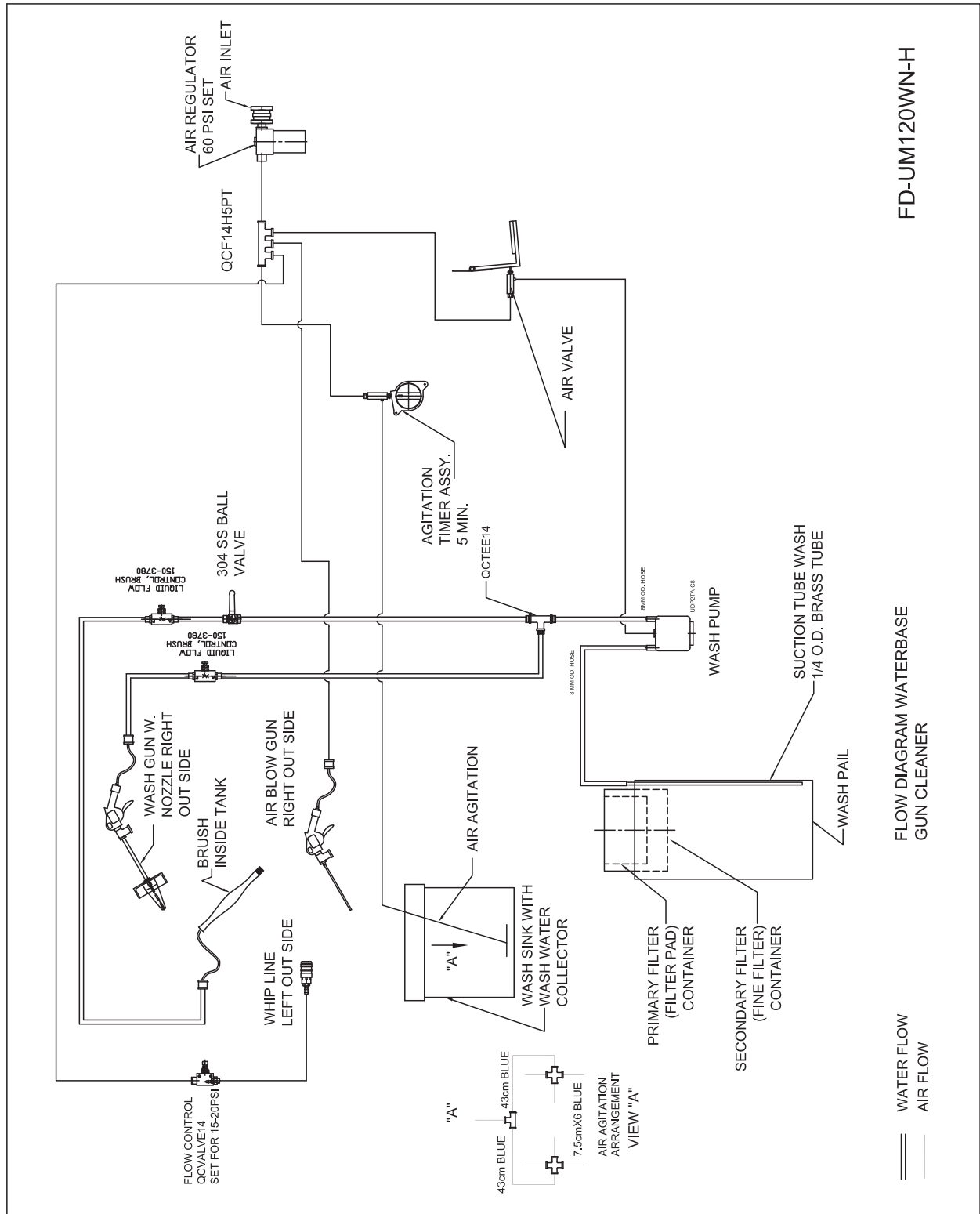
To troubleshoot a component:

- 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.

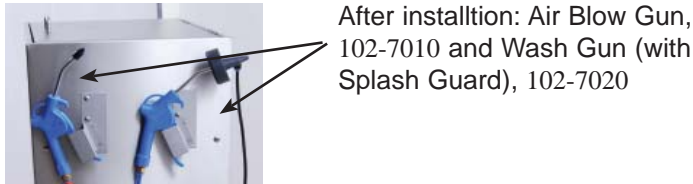
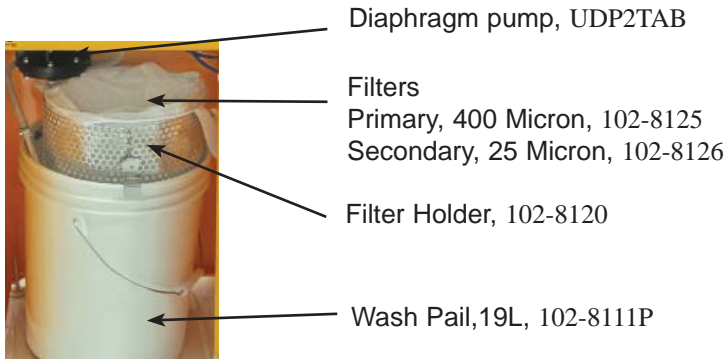
FLOW DIAGRAM

Use the diagram to trace the flow of compressed air and water.





### REPLACEMENT PARTS



Mech. Timer Assembly, 115-200



Air Coupler with 42" Supply Line, 102-3980 (Not shown)

Work Screen, 102-3030



Whip Line (not shown), 102-3980  
Flow-through Brush (not shown), 144-390W

Coag-Kleen Flocculant Granules, 102-8300 (not shown)

AIR AGITATION SYSTEM

Note: For additional replacement parts, see the list of included parts on page 3.



## Full Product Warranty

These Uni-ram 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. Uni-ram Corporation 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.

Uni-ram reserves the right to direct the customer to ship the unit collect to the Uni-ram factory or to an approved Service Center for repair using the Uni-ram Return Goods Procedure 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 solvent.

### 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 Uni-ram Service at 1-800-417-9133. We will send you a new pump free of charge and arrange for the return of your original pump.

### Conditions of Warranty:

As Uni-ram Corporation has no control over the working conditions or circumstances under which the purchaser stores, handles or uses the product, Uni-ram 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 of Uni-ram Corporation 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 mis-used, 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 solvents 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 Uni-ram Service at 1-800-417-9133 and quote the serial number of the unit.