



USER MANUAL

UR300QVAC AND UR300QVAC-PR1

AUTOMATIC DUSTLESS VACUUM SYSTEMS



CORPORATION

WWW.UNIRAM.COM

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Follow these procedures to operate this machine safely and effectively. Ensure that this manual is readily available to the operator at all times. If you have any questions about the operation of this machine, contact:

North America: Uni-ram Technical Service 1-800-417- 9133
Other Continents: Contact Your Supplier

MODELS

MODEL	UR300QVAC	UR300QVAC-PR1
VOLTAGE	120 V, 50/60 HZ, 800 W	120 V, 50/60 HZ, 800 W
SANDERS	NOT INCLUDED	1 SANDER

FEATURES AND SPECIFICATIONS

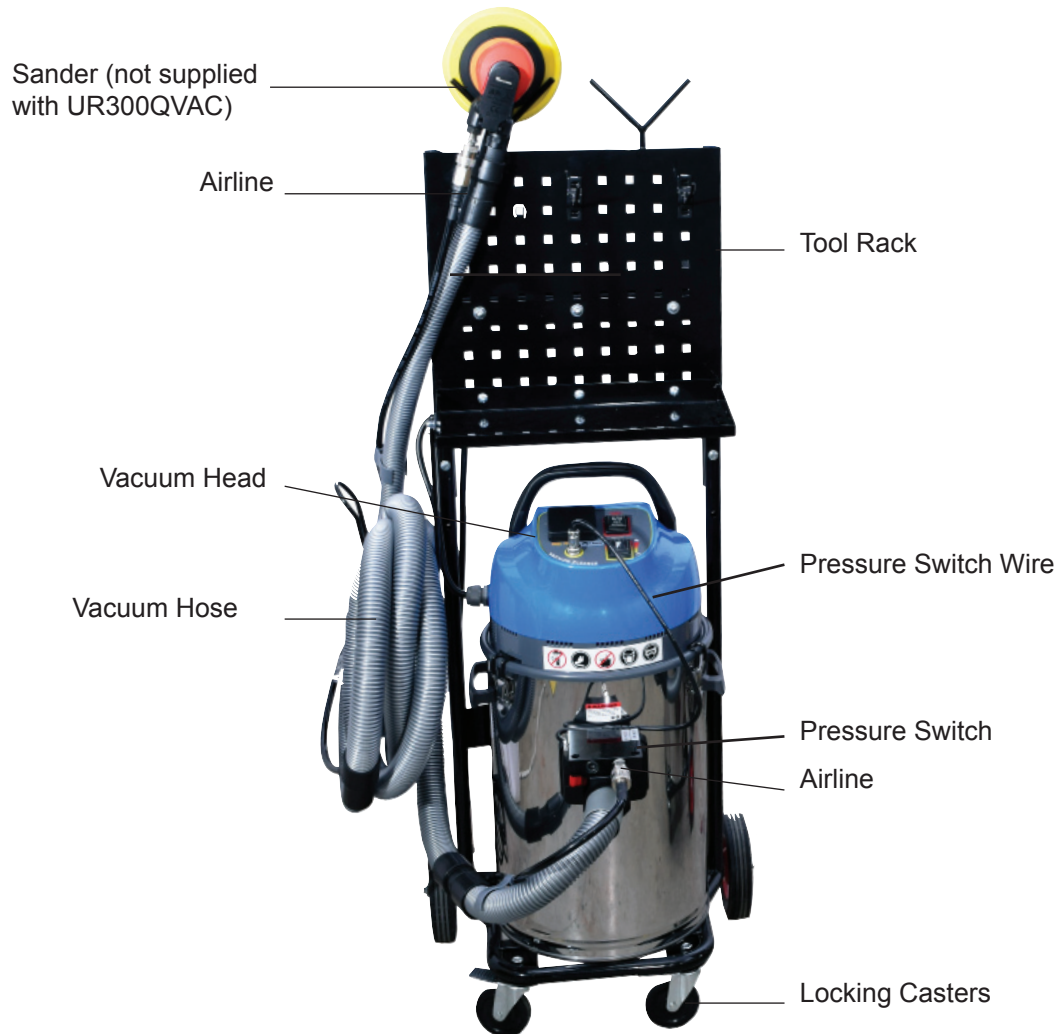
These mobile vacuums are ideally suited for automotive, marine and industrial applications wherever air operated, vacuum-assist tools are used.

- Portable.
- 120 V, 50/60 Hz, 800 W.
- 20 foot power cord, 16 foot vacuum hose.
- Automatic activation of vacuum by air tool, manual override.
- 1 motor 800 W; Maximum decibel rating is 60 db. Wattage (power consumption) can be reduced using the Variable Power Adjustment dial.
- For use with disposable garbage bags.
- There is a bag filter and a Single Cartridge Filter which is standard. High Density Filters are available.
- Electrical outlet for use with one electrical sander.
- Sealed Vacuum: 87" water (2200mm)
- Supply air pressure: 100 PSI(6.5 bar)
- Motor is a bypass, 2 stage motor for long life and vacuum power. Die cast housing. Internal fan for cooling.
- Shipping Dimensions (WDH): 22 X 20 X 32"
- Weight: 47 lb / 21 kg

CATUTIONS AND WARNINGS

- **Use this vacuum with non-hazardous dust. DO NOT use this vacuum with ignitable hazardous dust including alumina and magnesia. Do not use this vacuum with flammable liquids like gasoline.**
- **Repair must be carried out by a qualified technician.**

UR300QVAC

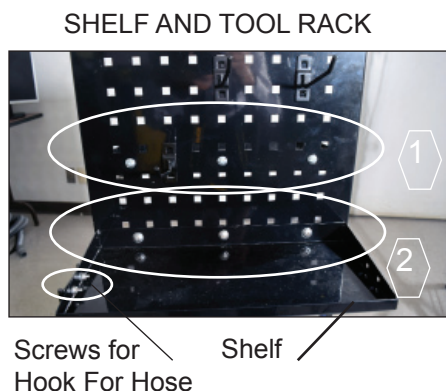


OPTIONS

PART NUMBER	DESCRIPTION
28-724	24 FOOT VACUUM HOSE
30-710	DETAIL KIT WITH HOSE, BRUSH, CARPET TOOL AND CREVICE TOOL.

SETUP

- Check for transportation damage.
- Attach the Shelves and a Hook for the vacuum hose to the Tool Rack and connect the Tool Rack and Handle to the frame. See the detailed instructions below.

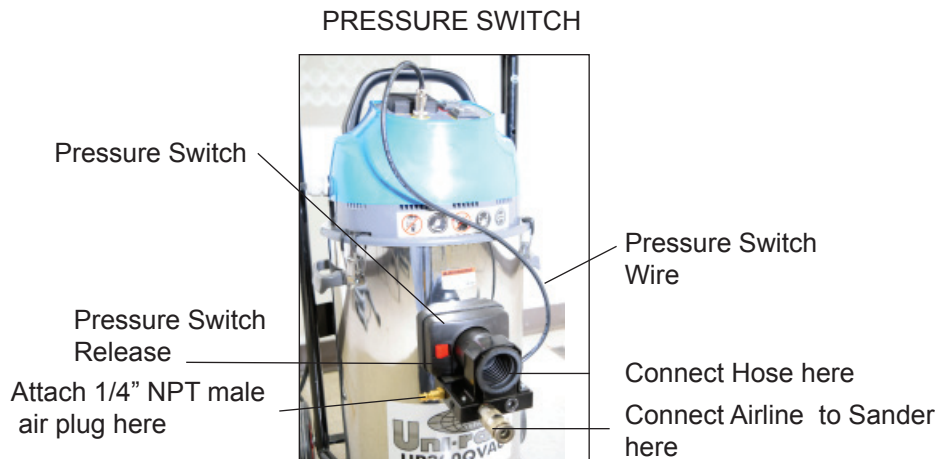
**Instructions:**

- 1 above) Use 3 screws to connect the 2 shelves together.
- 2 above) Use 3 screws to connect the Shelves to the Tool Rack.
- 3 above) Use 2 screws to connect the Hook for the Vacuum Hose to the Tool Rack.
- 4 above) Place the Tool Rack on the frame and connect the Handle and Tool Rack to the Frame using one screw on each side.

There are 4 clamps that secure the Vacuum Head to the Canister. Check that these clamps are secure. See photo below.

The Pressure Switch is in a separate carton. Attach the Pressure Switch to the canister by using a push in motion. See the photo below. Connect the Pressure Switch Wire to the Control Panel connector on the Vacuum Head. See the photo of the pressure switch below and the photo of the Control Panel. Make sure the connection is secure.

Install a 1/4" NPT male air plug to the female air inlet on the pressure switch. See photo below.



- Connect the Air Supply Line and one Vacuum Hose to the Pressure Switch. See earlier photo of the Pressure Switch.
- Provide at least 100 PSI (7 bar) supply to the air plug on the pressure switch. To ensure dry air use a moisture filter (not provided).
- Connect the Air Tool.
- Make sure the correct voltage is supplied. Plug in the unit. Set On / Off control to Auto. Test the operation of the vacuum and sander. Ensure all air fitting connections are secure without air leakage.

OPERATION

1. ON / OFF CONTROLS FOR VACUUM:

See photo of the Control Panel below.

AUTO Allows the unit to be turned on and off from the Sanding Tools.

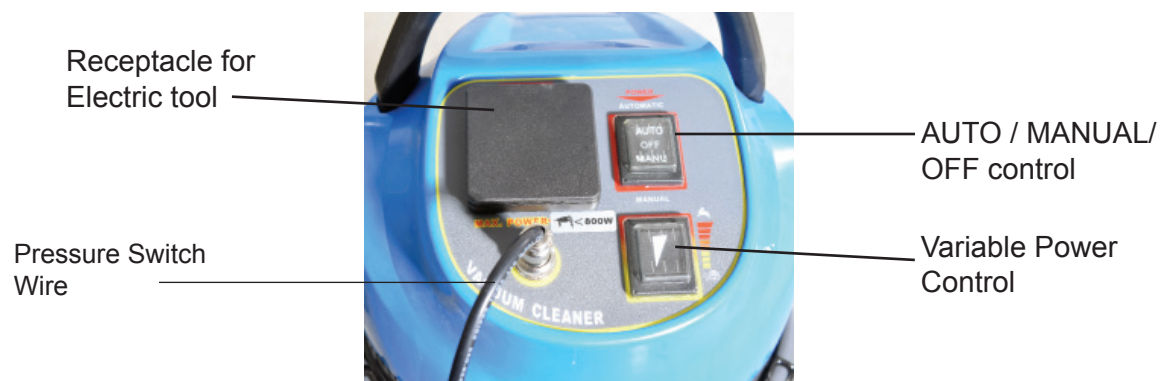
OFF Turns the vacuum unit off.

MANU Turns the vacuum on to run continuously.

2. VARIABLE POWER CONTROL

The motor speed is adjustable using the Variable Power Adjustment dial.

CONTROL PANEL



REPLACING THE DISPOSABLE BAG AND CLEANING THE FILTERS

To keep the vacuum operating efficiently, replace the Disposable Bag frequently. Clean the Bag Filter and Cartridge Filter periodically. Replace the Bag Filter and Cartridge Filter as required. These parts are shown in the photos at the bottom of the page. Part numbers are shown on the table to below.

PART NO.	DESCRIPTION
30-185	DISPOSABLE BAG (5 PACK)
30-171	CARTRIDGE FILTER, REGULAR
30-172	CARTRIDGE FILTER, HIGH DENSITY
30-173	BAG FILTER

To remove the disposable bag or clean the filters first detach the vacuum head.

To Detach the Vacuum Head:

Unplug the unit and detach the wire for the Power Cord from the Pressure Switch on the Vacuum Head. See earlier photo of the Control Panel for the Pressure Switch wire. The Handle and Tool Rack are attached to the frame with a screw. See photo on right. Remove the screw from each side remove the Handle then Tool Rack. Unclamp the Vacuum Head and lift it completely off the Canister. See photo on lower left below.

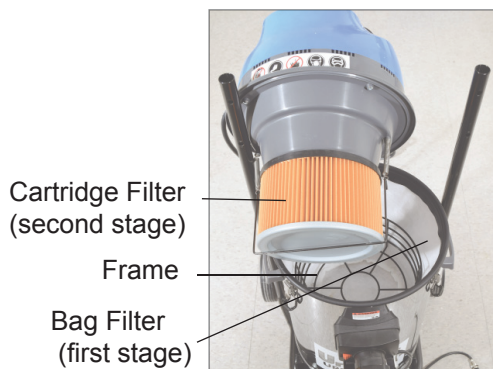


Remove bolt that secures the handle, upright and frame.

To Replace the Disposable Bag:

- Remove the Bag Filter and Frame to reveal the disposable bag. See the Bag Filter and Frame on the left photo below.
- Remove and dispose of the filled Disposable Bag. Install a new disposable bag. It is very important to ensure that the sealing edge of the Bag Filter is secure on the rim of the canister to prevent vacuum leakage. Place the Vacuum Head back on the Canister and clamp securely. Return the Tool Rack and handle to the frame and install the 2 screws.

Bag Filter and Cartridge Filter



Cartridge Filter Located Under the Bag Filter

Disposable Bag (30-185) Opening for Vacuum Hose



To clean the Bag Filter:

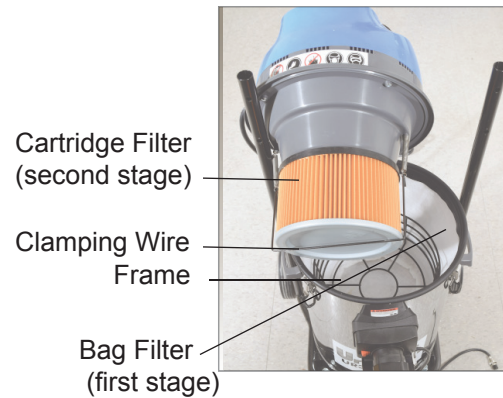
With the vacuum head removed:

- Remove the metal Frame from inside the Bag Filter.
- Remove the Bag Filter and wash with water, squeeze to dry.
- Repeat this step until the water is clean.

To clean the Cartridge Filter:

With the vacuum head removed:

- Slide off the Clamping Wire and pull off the Filter.
- Vacuum the filter inside and outside using the brush tool of another vacuum.
- Gently spray water into the inside of the filter.
Let the water fill the cavity, then dump the water.
Repeat this step until the water is clean.
- Gently spray water on the outside of the filter to remove the dirt.
- Let the filter air dry, then reassemble.



PREVENTATIVE MAINTENANCE

2 replacement brushes come with the vacuum. The brushes are rated for 500 hours. Replace the brushes at the earlier of the first sign of wear or 500 hours of use. The sign of wear is indicated when the vacuum motor, periodically, stops unexpectedly. See Procedure 2 under Troubleshooting on how to replace the brushes.

REPLACEMENT PARTS

PART NO.	DESCRIPTION
30-110	VAC HEAD, 120V, UR300QVAC
30-123	VACUUM MOTOR, UR300QVAC(120v)
28-129	SET OF 2 BRUSHES FOR MOTOR
28-131	PRESSURE SWITCH
30-171	CARTRIDGE FILTER, REGULAR
30-172	CARTRIDGE FILTER, HIGH DENSITY
30-173	BAG FILTER
30-710	DETAILING KIT WITH BRUSH AND OTHER TOOLS
28-716	VAC HOSE + AIR HOSE, 16 FT
28-724	VAC HOSE + AIR HOSE, 24 FT
30-185	DISPOSABLE BAG (5 PACK)

OPTIONS

ASSEMBLY OF DETAILING KIT (P/N 28-710)

See photo below for each step.

Connect the open end of the hose to the Hose Shaft using the thread on the Hose Shaft.

Connect the Hose Shaft to the Shaft Extension. Use one or two pieces of Hose Extension.

Connect the other end of the hose to the Vacuum.

Connect a tool to the Hose Shaft. Tools are shown at the bottom of the page.



TOOLS



TROUBLE SHOOTING GUIDE

Vacuum does not start when sander starts.	- Set Auto / Off / Manu control to MANU setting. - Ensure the Pressure Switch wire is securely attached at the Control Panel. - Ensure shop air supply is at least 100 psi. - Adjust air control on sander to full open. - Check the piston in the Pressure Switch - See Procedure 1 under Troubleshooting. - Call factory at 800-417- 9133 if above steps do not solve problem.
Vacuum does not stop once sander is turned off.	- An air leak can cause this problem. Check for compressed air leakage at Male Air Plug and at the sander. Secure connections. Use teflon tape. - Check the piston in the Pressure Switch - See Procedure 1 under Troubleshooting.
Vacuum turns on without activating sander.	An air leak can cause this problem. Check for compressed air leakage at male air plug and sander. Secure connections. Use teflon tape.
Vacuum motor stops unexpectedly while operating.	See Procedure 2 under Troubleshooting to replace the rushes.
	- Replace Disposable Debris Bag, if required. - Clean Bag Filter and Canister Filters, if required. - Check for air leak where Bag Filter sits on the rim of the canister and check for air leak where the vacuum hoses connect at the sander and at the vacuum.
Auto/ Off/ Manu Switch does not work.	Confirm power at the receptacle. Call factory if this does not solve the problem.

TROUBLESHOOTING PROCEDURES**Procedure 1, Check the Piston in the Pressure Switch:**

If the piston at the pressure switch does not slide smoothly a) the vacuum will not turn on when the sander is started and b) will not turn off when the sander is stopped. The aim of this procedure is to check to see if the piston slides smoothly and freely in its cylinder. If it doesn't sand the piston surface to allow it to slide smoothly.

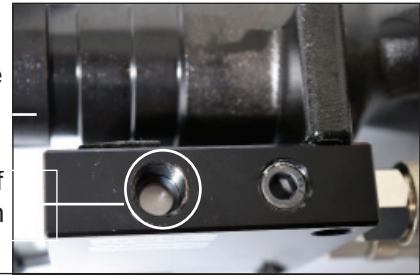
Unscrew the Air Plug at the pressure switch (see photo on right).

Air Plug
Pressure
Sensor



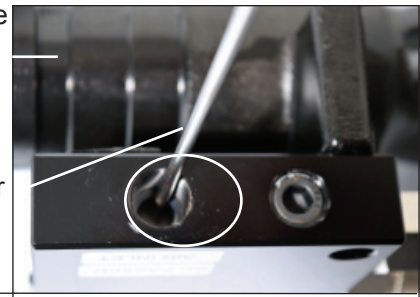
The top of the piston is revealed.

Pressure
Sensor
Top of
Piston



Push the piston with the blade of the screwdriver to see if the piston slides smoothly and freely. If it does, stop this procedure and return the air plug. The cause of the problem is not the piston. If the piston does not slide smoothly and freely continue with this procedure.

Pressure
Sensor
Screw driver

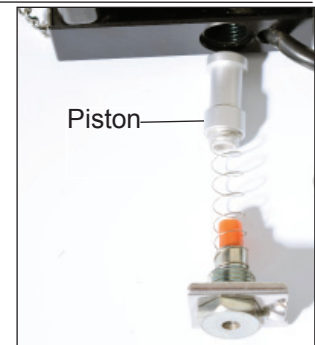


Turn the pressure switch over to reveal the bolt.



Unscrew the bolt and slowly pull the assembly shown in the photo to the right out of the cylinder. Check the piston for burrs and sand where necessary and clean. Once finished, return the piston to the cylinder and reassemble.

Piston



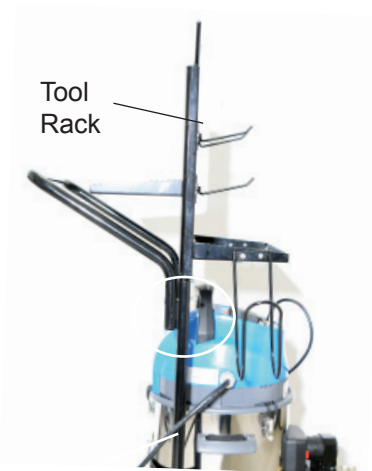
TROUBLESHOOTING PROCEDURES

Procedure 2, Replace the Motor Brushes:

The brushes are rated for 500 hours. Replace the brushes at the earlier of the first sign of wear or 500 hours of use. The sign of wear is indicated when the vacuum motor, periodically, stops unexpectedly.

To Detach the Vacuum Head:

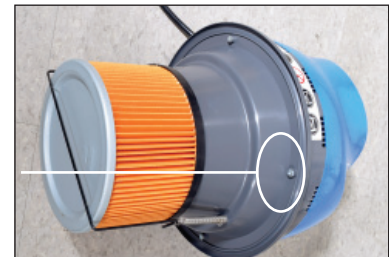
Unplug the unit and detach the short Power Cord from the Pressure Switch on the Vacuum Head. The handle and upright are attached to the frame with a bolt, washers and nut. See photo on right. Remove the bolt from each side and lift the Upright off. Unclamp the Vacuum Head and lift it completely off the Canister.



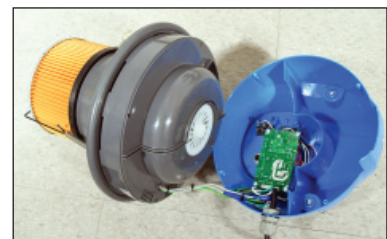
Remove bolt that secures the handle, upright and frame.

Remove the 4 screws that hold the grey shell to the blue head. Use a flat screw driver to gently pry the grey shell from the blue head.

Screw



Lift the grey shell off the base to reveal the white shell.



Remove the 4 screws in the white shell to separate the white shell from the grey base.



Carefully pull the wires through the grey shell to allow slack, allowing the motor to be later separated from the white shell.



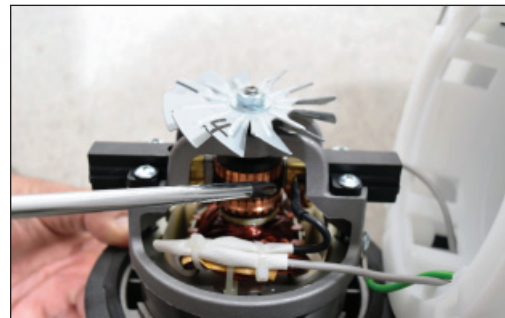
Slowly pull the motor to separate it from the white shell.



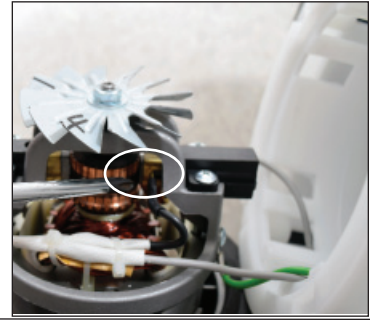
The motor with its 2 brushes are exposed. Replacement of one brush will be discussed first.



Remove the two screws that secure the brush.



Disconnect the wire from the motor on both sides.



Lift and twist the brush as you pull the brush out.

Use a similar twisting motion to install the new brush.



Push and hold the brush to align the screw holes. Insert and tighten the screws.

Follow this procedure to replace the second brush on the motor.



Once the brushes are replaced reassemble the vacuum. Start by pushing the motor back through the white shell.



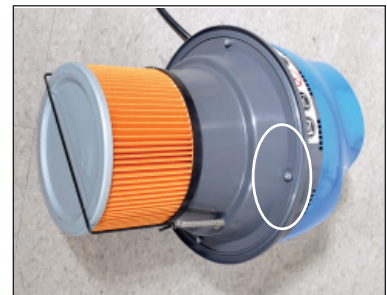
Use the 4 screws to attached the white shell to the filter housing.



Align the blue tab between the the 2 grey tabs to secure the grey shell to the blue vacuum head.



Use the 4 screws to secure the blue vacuum head to the grey as shown. Place the vacuum in the canister, secure the 4 clamps and attach the black Tool Rack and Handle.



Full Product Warranty

This Uni-ram product has 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.

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 Returned 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 packaging of equal quality. All units must be shipped clean and free of debris or liquids.

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 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. 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.

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.