


IMPORTANT SAFETY INSTRUCTIONS

CAUTION: To reduce the risk of injury, read operating instructions carefully before using.

▲ WARNING: RISK OF ELECTROCUTION ▲

- Read instruction manual before using.
- This appliance is provided with double insulation. Use only identical replacement parts. See instructions below for Servicing of Double-Insulated Appliances.
- Inspect cord before using – do not use if cord is damaged.
- Keep all connections dry and off the ground.
- Do not touch plug with wet hands.
- Do not close a door on the cord or pull the cord around sharp edges or corners.
- Keep the cord away from heated surfaces.
- Do not apply liquid from the appliance onto electrical outlets or on any electrical devices.
- Turn off the unit before unplugging.
- Do not pull on the cord to unplug. Grasp the plug at the outlet and pull.
- When dry vacuuming, do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use to pick up flammable or combustible materials.
- If using an extension cord with the appliance, make sure the connection is above the floor and away from exposure to liquid.

SERVICING OF DOUBLE-INSULATED APPLIANCES

A double-insulated appliance is marked with one or more of the following: The words "DOUBLE INSULATION" or "DOUBLE INSULATED" or the double insulation symbol  (square within a square).

In a double-insulated appliance, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated appliance, nor should a means for grounding be added to the appliance. Servicing a double-insulated appliance requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated appliance must be identical to the parts they replace.

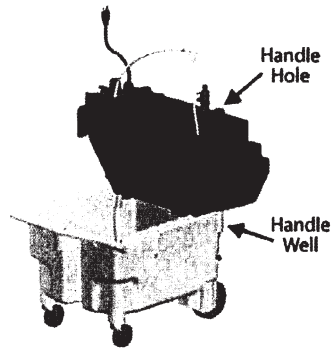
Personal Protective Equipment (PPE): It is recommended to wear proper personal protective equipment as required by the chemical product label instructions used in conjunction with the appliance.

FOR INDOOR USE ONLY

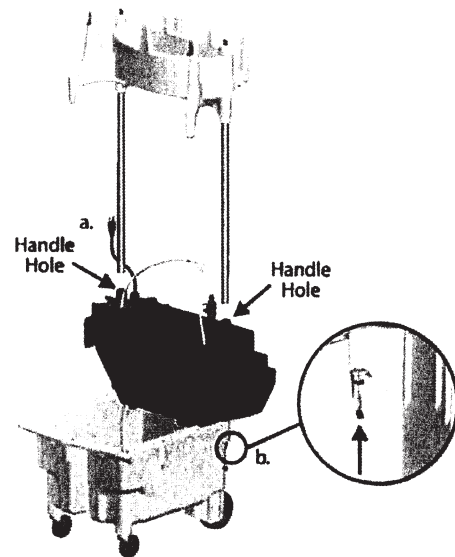


Ultra Clean 500™ Wet/Dry Vacuum System

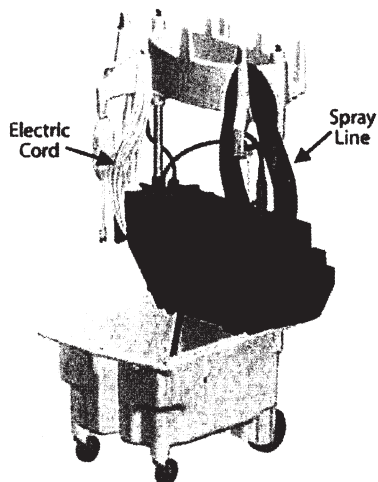
ASSEMBLY INSTRUCTIONS



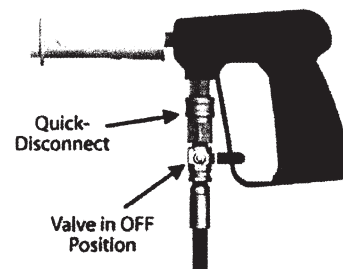
1. Place the Pump Box on the OmniFlex Trolley-Bucket. Make sure the hoses on the bottom of box are free of kinks and are positioned inside the Trolley-Bucket. Align the Pump Box handle holes with the Trolley-Bucket handle wells.



2. (a) Slide the handle through the 2 holes on either side of the Pump Box. Make sure that the handle goes all the way through the Pump Box and into the Trolley-Bucket's wells. (b) Then, affix the handle to the Trolley-Bucket with 2 spade-head screws and washers.



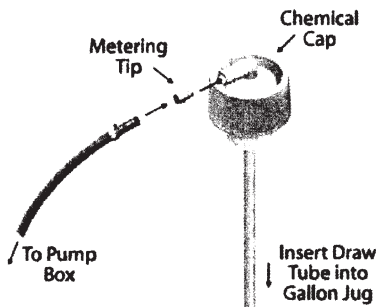
3. Plug the yellow electric cord into the black electric cord on the Pump Box. Then, wrap the yellow electric cord around the hooks on the handle and Pump Box. Finally, connect the black spray line to the brass fitting on the Pump Box. Then, wrap the spray line around the hooks.



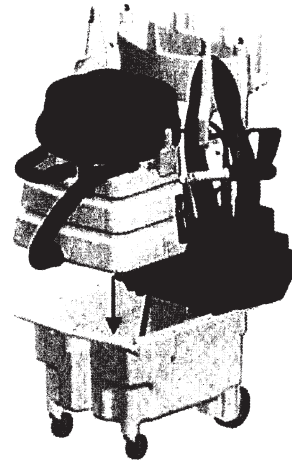
4. Turn the valve at the end of the spray line to the OFF position. Then, connect the spray gun to the spray line with the quick-disconnect fitting

Ultra Clean 500™ Wet/Dry Vacuum System

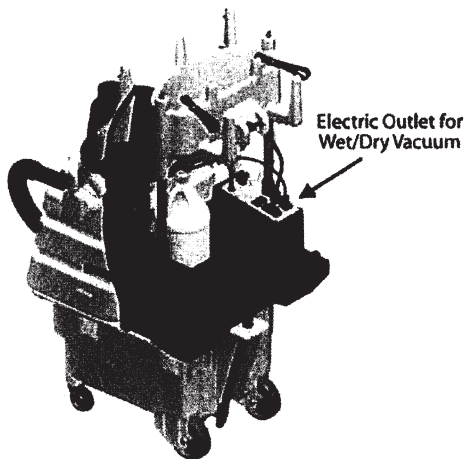
ASSEMBLY INSTRUCTIONS (CONTINUED)



5. To set up chemical injection, select a metering tip and insert it into the yellow chemical cap. Then, attach the tube from the Pump Box to the chemical cap. Finally, insert the chemical draw tube (included in Kaivac chemical cases) into the gallon jug and screw the yellow cap onto the jug in place of the lid. The chemical jug will sit in the Pump Box as shown in Step 7.



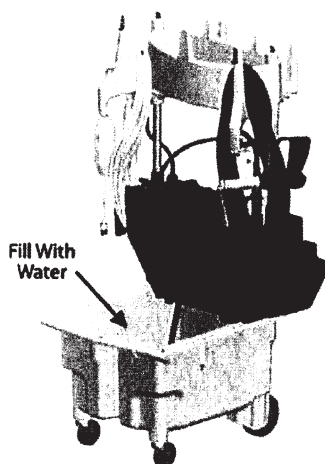
6. If adding the Wet/Dry Vacuum to create a Spray-and-Vac system, place the Wet/Dry Vacuum in front of the Pump Box on the Trolley-Bucket



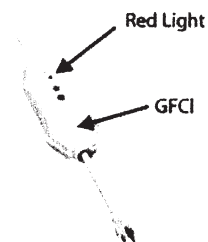
7. Plug the Wet/Dry Vacuum's electric cord into the electric outlet on the Pump Box.

Ultra Clean 500™ Wet/Dry Vacuum System

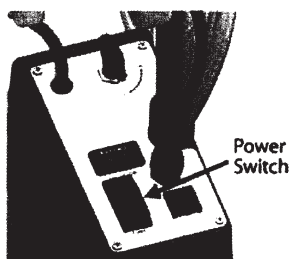
OPERATING INSTRUCTIONS



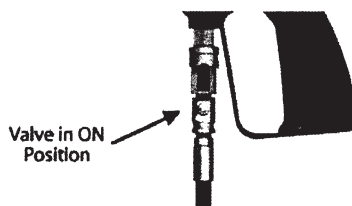
1. Fill the Trolley-Bucket with up to 10 gallons of cold water. DO NOT add any cleaning chemical; use plain water only.



2. Plug the yellow electric cord into an electric outlet. Ensure that the red light is illuminated on the GFCI.



3. Flip the power switch on the Pump Box to the ON position.



4. Turn the valve on the spray line to the ON position.



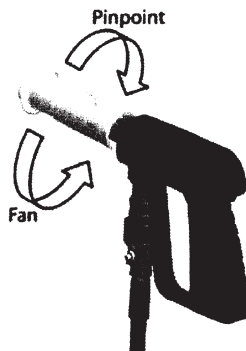
5. Pull the trigger on the spray gun to begin spraying.



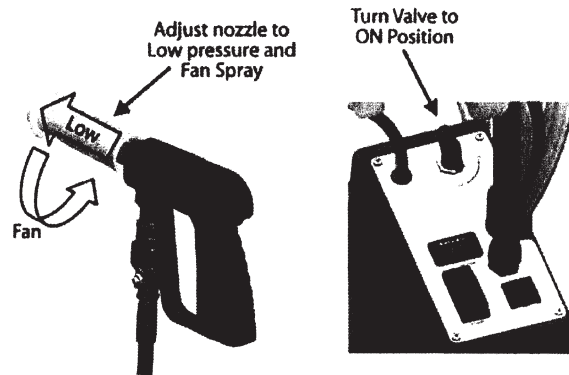
6. To spray in high pressure, pull the yellow nozzle towards the gun. To spray in low pressure, pull the nozzle away from the gun.

Ultra Clean 500™ Wet/Dry Vacuum System

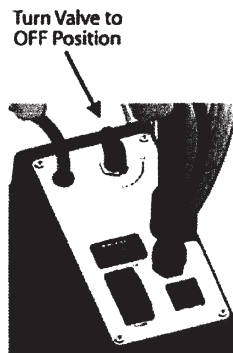
OPERATING INSTRUCTIONS (CONTINUED)



6. To adjust the spray pattern, twist the yellow nozzle to toggle between a fine pinpoint stream and wide fan spray.



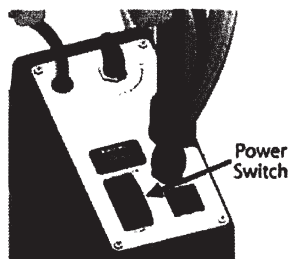
7. To apply cleaning chemical, first pull the spray gun nozzle out for low pressure. Then, twist the nozzle to the fan pattern. Finally, turn the chemical valve on the control panel to the ON position. Continue spraying until chemical is visible in the spray.



8. When finished applying chemical, turn the chemical valve on the control panel to the OFF position. Continue spraying in low pressure for 15 seconds until the chemical has been bled from the line.



9. To rinse surfaces, push the nozzle in for high pressure, and twist the nozzle to a fine pinpoint stream.



10. When finished spraying, turn the power switch to the OFF position.



11. Wrap the spray line and electric cord as shown.

Ultra Clean 500™ Wet/Dry Vacuum System

MAINTENANCE

Item	Procedure
Spray Gun	Check spray pattern. IF spray pattern will not pinpoint, clean orifice by removing it with an Allen wrench and flushing. Replace if not pinpointing. If nozzle becomes difficult to move from high to low pressure, lubricate the nozzle with lithium grease.
Pressure Hose	Wipe clean after each use. Check for cuts or frays in the hose jacket, particularly at the end of the fittings. Replace hose if cuts are found.
Chemical System	Weekly flush the chemical system. With the Chemical Valve in the ON position, detach chemical line from chemical bottle and place into cup or bottle of fresh water, spray in low pressure setting for 30 seconds.
Leaks	Be alert for leaks around hoses, fittings, spray gun, or elsewhere. Discontinue use until leaks are repaired.
Electrical System	The GFCI (ground fault circuit interrupter) must be tested before each use. Electric cord must be regularly inspected for tears or cuts in the insulation. If tears or cuts are found repair immediately.

TROUBLESHOOTING

Area	Problem	Possible Cause	Solution
Electrical	No power to pump motor	Machine not plugged in	Plug machine in to outlet
		Switch not "ON "	Check if switch is "ON "
		GFCI on Pump Box tripped	Test or reset GFCI
		Building circuit overloaded	Plug vacuum into different circuit and reset the building circuit breaker
		Switch wires or connections loose on Pump Box (only if connected to Pump Box)	Disconnect power and check for loose wires under control panel of Pump Box
	Electrical burning smell	Pump motor brushes worn or motor jammed	Release pressure on spray line and jog pump switch, if problem persists, remove pump motor and repair or replace.

TROUBLESHOOTING (CONTINUED)

High Pressure System	No water from pump or low pressure	Out of water	Fill water tank
		Gun nozzle clogged	Remove orifice with Allen wrench and clean
		Air in pump (vapor lock)	Power Prime Technique: Remove spray gun from spray line, turn ON pump and vacuum, turn on mini-ball valve on spray line, hold spray line end in the vacuum hose to suck water through the spray line.
		Gun orifice missing	Replace orifice
		Pump box Filter clogged	Clean filter
High Pressure System (cont.)	No water from pump or low pressure (cont.)	Pressure hose damaged	Repair or replace
		Quick disconnect leaking	Tighten or replace
		Injector clogged	Remove chemical line from chemical cap and blow small amounts of compressed air into line.
		Pulse hose damaged	Repair or replace
		Unloader failed (500 psi only)	Replace
		Hose kinked	Unkink and check for damage
		Seals in pump need replaced	Remove pump and replace seals
	Sputtering or pulsing from pump motor in high pressure setting	Not fully primed	Power Prime Technique previously stated
		Wrong spray gun	Replace with correct spray gun
		Partially clogged orifice	Remove orifice with Allen wrench and clean
	Bad fan pattern or pinpoint pattern on spray gun	Debris in nozzle	Remove orifice with Allen wrench and clean
		Orifice damaged	Remove and replace
	Chemical Injection System	No chemical flow	Out of chemical
Chemical cap not secure			Check chemical cap and tighten

TROUBLESHOOTING (CONTINUED)

		Chemical valve in OFF position	Turn valve ON
		Chemical cap clogged	Replace chemical cap
		Spray gun in wrong pressure mode	Make sure spray gun is in low pressure mode
		Metering tip clogged	Remove tip and clean
		Injector clogged	Remove chemical line from injector and use a straightened paper clip to clear the injector of debris
		Air entering chemical system	Check for air entering system around chemical lines or injector
		Injector installed backwards	Check Injector position with Pump Box Diagrams

Ultra Clean 500™ Wet/Dry Vacuum System

MAINTENANCE

Item	Procedure
Spray Gun	Check spray pattern. IF spray pattern will not pinpoint, clean orifice by removing it with an Allen wrench and flushing. Replace if not pinpointing. If nozzle becomes difficult to move from high to low pressure, lubricate the nozzle with lithium grease.
Pressure Hose	Wipe clean after each use. Check for cuts or frays in the hose jacket, particularly at the end of the fittings. Replace hose if cuts are found.
Chemical System	Weekly flush the chemical system. With the Chemical Valve in the ON position, detach chemical line from chemical bottle and place into cup or bottle of fresh water, spray in low pressure setting for 30 seconds.
Leaks	Be alert for leaks around hoses, fittings, spray gun, or elsewhere. Discontinue use until leaks are repaired.
Electrical System	The GFCI (ground fault circuit interrupter) must be tested before each use. Electric cord must be regularly inspected for tears or cuts in the insulation. If tears or cuts are found repair immediately.

TROUBLESHOOTING

Area	Problem	Possible Cause	Solution
Electrical	No power to pump motor	Machine not plugged in	Plug machine in to outlet
		Switch not "ON "	Check if switch is "ON "
		GFCI on Pump Box tripped	Test or reset GFCI
		Building circuit overloaded	Plug vacuum into different circuit and reset the building circuit breaker
		Switch wires or connections loose on Pump Box (only if connected to Pump Box)	Disconnect power and check for loose wires under control panel of Pump Box
	Electrical burning smell	Pump motor brushes worn or motor jammed	Release pressure on spray line and jog pump switch, if problem persists, remove pump motor and repair or replace.

TROUBLESHOOTING (CONTINUED)

High Pressure System	No water from pump or low pressure	Out of water	Fill water tank
		Gun nozzle clogged	Remove orifice with Allen wrench and clean
		Air in pump (vapor lock)	Power Prime Technique: Remove spray gun from spray line, turn ON pump and vacuum, turn on mini-ball valve on spray line, hold spray line end in the vacuum hose to suck water through the spray line.
		Gun orifice missing	Replace orifice
		Pump box Filter clogged	Clean filter
High Pressure System (cont.)	No water from pump or low pressure (cont.)	Pressure hose damaged	Repair or replace
		Quick disconnect leaking	Tighten or replace
		Injector clogged	Remove chemical line from chemical cap and blow small amounts of compressed air into line.
		Pulse hose damaged	Repair or replace
		Unloader failed (500 psi only)	Replace
		Hose kinked	Unkink and check for damage
		Seals in pump need replaced	Remove pump and replace seals
	Sputtering or pulsing from pump motor in high pressure setting	Not fully primed	Power Prime Technique previously stated
		Wrong spray gun	Replace with correct spray gun
		Partially clogged orifice	Remove orifice with Allen wrench and clean
	Bad fan pattern or pinpoint pattern on spray gun	Debris in nozzle	Remove orifice with Allen wrench and clean
		Orifice damaged	Remove and replace
	Chemical Injection System	No chemical flow	Out of chemical
Chemical cap not secure			Check chemical cap and tighten

TROUBLESHOOTING (CONTINUED)

		Chemical valve in OFF position	Turn valve ON
		Chemical cap clogged	Replace chemical cap
		Spray gun in wrong pressure mode	Make sure spray gun is in low pressure mode
		Metering tip clogged	Remove tip and clean
		Injector clogged	Remove chemical line from injector and use a straightened paper clip to clear the injector of debris
		Air entering chemical system	Check for air entering system around chemical lines or injector
		Injector installed backwards	Check Injector position with Pump Box Diagrams