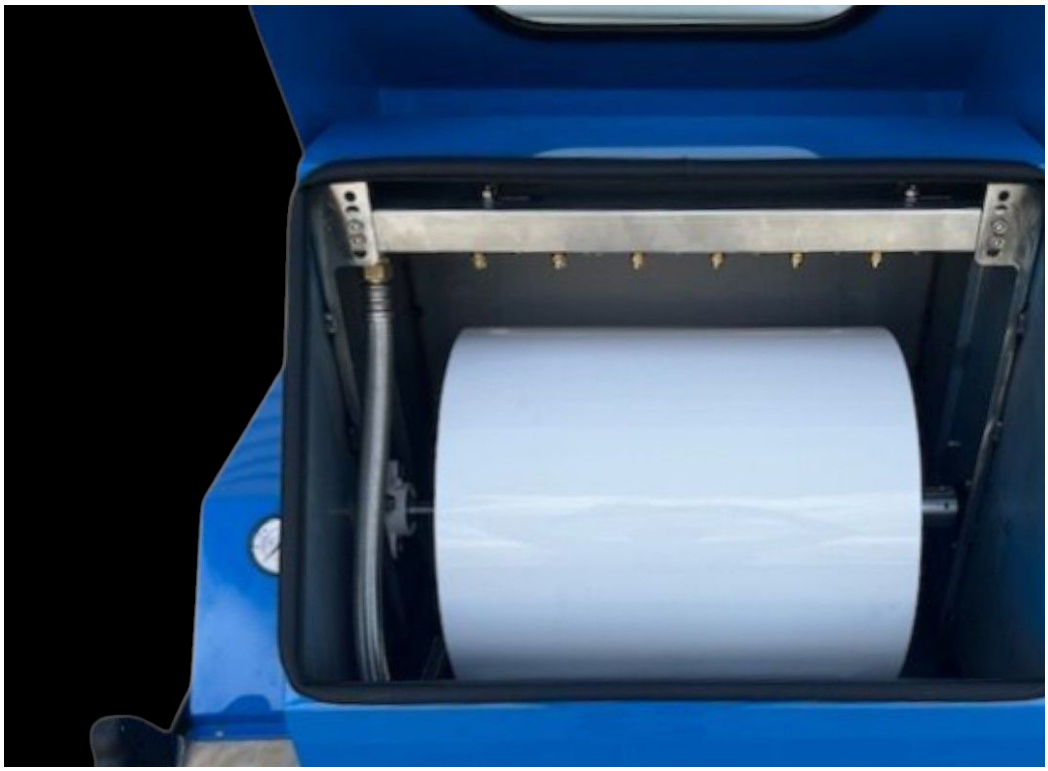
MBA
Mediablaster® Cabinets By: MEDIA BLAST®
MADE IN THE USA
591 W. Apollo St., Brea CA.
92821 (714) 257-0484
www.mediablast.com

OPERATOR'S MANUAL

AquaBlast Elite 3.0



The AquaBlast® Elite 3.0 has a new design. Operates using 120-volt single phase GFI power supply, all standard. Largest drum size, 18" x 50", 900 sq.in., double stainless top captures all drips, easy to use controls, and standard with cycle view window. All included now with the Patented Low Flow Water Usage Design of the complete AquaBlast® line.

NEVER ALLOW THIS MACHINE TO BE STORED OR INSTALLED WHERE THE POSIBILITY OF FREEZING TEMPERATURES EXIST.



INSTALL USING A DEDICATED 120 VOLT, SINGLE PHASE, 60 CYCLE, 20 AMP SERVICE USING THE SUPPLIED GFIC SAFETY POWER CORD CIRCUIT. USE AN OUTLET WITH 12 GA GROUNDED WIRING. NEVER USE AN EXTENSION CORD!

IMPORTANT INFORMATION for the AquaBlast® Elite 3.0 Washout Machine

Welcome to the CrystalBlast® Family! You have just purchased one of our AquaBlast® Film Washout Machines. This machine is designed, built, manufactured and assembled in the USA by Media Blast & Abrasive Inc. Established in 1977 and building fine Sandcarving and Film Washout Machines for almost 5 Decades. It replaces our High Voltage AquaBlast 2.0 model.

Always observe all OSHA Codes for Machine Set Up, Operation, and Service/Maintenance regarding Electrical and Service Lockout Tag Requirements..

This machine is very easy to operate and maintain. However, there are a few important issues to take into consideration.

- **NEVER STORE AT ANY LOCATION WHERE THE MACHINE IS SUBJECT TO FREEZING TEMPERATURES.** This includes any time the equipment may have a location change in a facility or being stored.
- **MAKE SURE YOUR 120-VOLT SINGLE PHASE 20 AMP SERVICE IS DEDICATED AND GROUNDED.** The setup for this machine is simple, if you are unfamiliar with electrical you need to hire a qualified electrician. The service requires 12 gauge wiring, a dedicated service using a 20 Amp GFI Safety Circuit Power Cord, included. The 20 amp GFI Power Cord has a different male plug end. Media Blast has provided an approved adaptor to plug into a standard 20 Amp 12 Ga Grounded Dedicated Service Outlet allowing the use of the 20 amp GFI Plug. The service outlet must be grounded or the AquaBlast will not power up. Make sure your standard service outlet is rated for 20 amps and includes ground wire.
- **THIS MACHINE REQUIRES STATIC WATER PRESSURE AT THE INLET OF 40 PSI, AND THE SUPPLY LINE MUST BE TESTED FOR GALLONS PER MINUTE FLOW.** This is a Patented High Pressure, Low Flow Washout Machine operating using less heated water than all other film washout equipment. With its faster washout and green operating conditions, it is capable of paying for the cost of the machine with saved heated water costs. Before installing the equipment, you want to test your water flow supply for a volume in gallons per minute. It must be at least 4 to 5 gallons per minute. The machine will never use more than 4 gallons per minute, and it will operate with less, but lower processing pressures may increase washout times a few seconds.
- **DO NOT OPERATE WITH PRESSURES ABOVE 300 PSI.** This is a booster pump and uses the final boosted pump pressure, then adds your supplied inlet pressure to produce the final running pump pressure for the washout. A monitor pressure gauge has been supplied to indicate the final operating pressure.
- **WHEN NOT USING THE MACHINE, YOU ALWAYS LEAVE THE WASHOUT CHAMPER OPEN.** This machine includes a safety switch to prevent operation with the washout chamber open. The washout drum is powder coated mild steel to allow the film to use the magnetic holding strips. Leaving the washout chamber closed when not in use can cause premature rusting of the washout drum.
- **YOU CAN MONITOR THE CONDITION OF THE WASHOUT NOZZLES USING THE MONITOR PRESSURE GAUGE.** Nozzles can be worn with time and your processing pressure may lower. Using this information can tell the user when nozzle replacement may be required vs time saved for film washouts. Do not process parts with a plugged nozzle. In addition to missing an area of the film, the monitor pressure gauge can indicate a higher processing pressure. We always advise keeping a spare set in stock on your shelf.
- **HAVING GOOD HOUSE KEEPING IS IMPORTANT.** Cleaning around the drain outlet area determined by the DDC, Daily Duty Cycle of the equipment, is important. A clean drain screen equals fast wastewater draining.
- **USE MBA REPLACEMENT COMPONENTS.** Replacement of worn components with non-MBA parts may void the machine warranty. The components used by Media Blast are of the highest quality and will provide the most serviceable life for the machine Patented design.
- **REVIEW THE TROUBLESHOOTING GUIDE AND FOLLOW THE INSTRUCTIONS PRIOR TO CALLING IKONICS FOR TROUBLESHOOTING ASSISTANCE.** Most problems associated with the machine can be identified by simply consulting the Troubleshooting Guide. Nearly all equipment malfunction issues can be resolved over the telephone, and many are related to improper installation.
- **MAXIMUM WATER TEMPERATURE.** The AquaBlast 3.0 has a much higher water inlet processing pressure of 165°. This is higher than all other machine models and higher than our Pro Model in our middle size position.
- **WITH THE AQUABLAST 3.0 MODEL, IT IS VERY IMPORTANT TO NOT OPERATE THE MACHINE OR NEVER ALLOW THE FOLLOWING CONDITIONS TO OCCUR:**
    1. Lower water inlet pressure than 30-40 psi and static flow less than 4-5 gallons per minute. The Patented AquaBlast does not use a stored water tank. This eliminates overflows, running out of required 9 to 10 gallons per minute, allows back to back continuous washouts, and loss of water temperature due to tank storage evaporation.
    2. Conditions where the possibility of a temperature freeze may exist not exist.
    3. Operating conditions of more than 300 psi processing pressure.
    4. Operation without the supplied GFI Safety Circuit supplied, or operation on a Non-Dedicated Service Outlet

AQUABLAST® ELITE 3.0 MACHINE "QUICK SET-UP" SHEET

Please review the main manual completely - These sheets are the Quick Operation Sheet you should read even if you are already familiar with the AquaBlast models. Important information is listed in red

1. Unpack and place the machine, install any parts packed inside the washout chamber for user assembly. This may include casters, and more, see the main machine manual.
2. Install the power, water supply, and drain as indicated in the main manual for the equipment.
3. Plug the machine into a dedicated 120-volt 20 amp single phase service outlet and never use extension cords. 20 amp requires 12 ga wiring, dedicated service prevent circuit breaker trips.
4. Never cycle the pump before removing the air from the machine pump. After the installation is complete, open the water valve and using the manual washout gun, trigger the gun until water is seen exiting the nozzle tip. At this time the air has been removed from the machine.
5. Test the water drain making sure the wastewater is being removed.
6. Open the washout chamber and use the manual washout gun to wet the drum surface. This will help you to position the film on the drum surface. Use the magnetic strips to overlap the film edge and hold the film in position during the washout cycle.
7. The AquaBlast Elite 3.0 has the largest drum size in the industry, fastest processing time and lowest cost of operation today using low water and low heated water amounts.
8. Turn the On-Off Selector Switch to the ON position, this will power up the controls making the machine ready for operation. This machine includes an Emergency Stop Switch..
9. Open the washout chamber and position the film on the drum using the supplied magnetic holding strips.
10. Close the washout chamber at this time making sure the chamber is seated against the seal. You can use the heavy duty handle to seat the cover against the seal by lightly pushing down on the handle when closing.
11. Set the Digital Timer for the washout cycle time. Test some film to make sure the time is right for the film type and thickness if you have never operated an AquaBlast before.
12. Using the Cycle Switch, start the timed washout cycle, you can view the nozzle patterns making sure all nozzles are operating properly using the included view window.
13. When the cycle stops, open the washout chamber and inspect the film washout. You can use the manual washout gun to concentrate on any area you feel was not washed out completely.
14. In addition to number 13 above you can close the washout chamber and use the jog button held down to add additional washout time. If you are using the jog for more than 20 seconds, we suggest readjusting your washout timer setting.
15. Open and inspect the film for timed washout, you can create a logbook to establish the pressure, and washout processing time, note the film thickness for future use.
16. If the film includes detailed part areas that have not been washed out, you can use the manual washout gun to complete any missing washout areas.
17. Remove the processed film by first removing the strip magnets. Understanding that all AquaBlast models include a double pan top allowing drips and spilled coffee to be directed to the wastewater. This is just one of the many special features included with the AquaBlast Elite 3.0 remembering it uses greatly reduced water during the washout process.
18. If all washouts are now complete, power off and leave the washout chamber open to dry the drum. Always remove the magnets from the drum to prevent pre-mature drum rusting..
19. The AquaBlast Elite 3.0 has an optional mechanical temperature gage available. Installed by the factory before machine shipment, it includes a 2-1/2" mechanical temperature gage with protective cover guard, and plumbing part fittings attached to the main water inlet. It allows only vertical downward gage observation for gage protection. This protects the gauge from possible damage allowing easy observation for inlet water temperature. Ask for details about this option, it can be purchased and added by the user at a later date.

QUICK OPERATION SHEET AquaBlast Elite 3.0

Your machine has now been connected to electrical power, water, and the waste water drain using the instructions from the Quick Set-Up Sheet above.

POWER UP THE INSTALLED MACHINE:

- Turn the On-Off power switch to the ON position. This will supply the power needed to operate the machine controls.
- An EMERGENCY STOP BUTTON has been supplied to allow the machine to be stopped at any time.

SET THE CYCLE TIMER:

- If you know the processing time, set it now on the digital timer. See the manual for more details.

OPEN THE MAIN WATER INLET VALVE.
LOAD THE FILM ON THE DRUM:

- It is suggested that you pre-wet the drum if it is dry, use the manual washout gun for the step. Place the film, centering on the drum, and use the strip magnets to hold the film in position during the washout process.

CLOSE THE WASHOUT COVER MAKING SURE THE COVER IS SEATED AGAINST THE LID SEAL AND LIMIT SAFETY SWITCH:

- You can use the washout chamber handle to close and set the washout chamber against the chamber seal.

PRESS THE CYCLE START SWITCH TO BEGIN THE TIMED WASHOUT CYCLE:
OPEN AFTER WASHOUT CYCLE ENDS AND INSPECT THE FILM FOR THE PROPER WASHOUT:

- Use the manual washout gun with the washout chamber open, or close the washout chamber and use the jog cycle. Hold down the jog-control switch, this will activate the drum rotation and washout pump. We suggest that you reset the timer if you add more than 20 seconds of additional washout time.
- **OPEN THE WASHOUT CHAMBER AND REMOVE THE FILM:**
- The AquaBlast Elite 3.0 can include an optional mechanical temperature gauge installed by the factory before machine shipment. It includes a mechanical temperature gauge, gauge well, and protective cover guard. This, with the needed plumbing parts, allows only vertical downward gauge observation. It protects the 2-1/2" gauge from possible damage allowing easy observation of the inlet water temperature. Ask for details about this option, it can be purchased and added by the user at any later date.

LOAD ANOTHER WASHOUT OR LEAVE THE CHAMBER OPEN TO DRY WHEN DAILY USE IS OVER.

- Always remove the holding magnets from the drum when the washout cycle is finished for the day. Leave the chamber open to dry. Premature rusting of the drum can occur when this is not observed.

TURN OFF THE MAIN WATER INLET VALVE AT THIS TIME.
CLEAN THE AREA AROUND THE WASHOUT CHAMBER DRAIN AT THIS TIME:

- ✓ NEVER USE EXTENSION CORDS, INSTALL ON DEDICATED 20 AMP SERVICE ONLY, 12 GA. WIRE WITH GOUND..
- ✓ IMPROPER WIRING WILL NOT ALLOW THE GFI TO WORK..
- ✓ NEVER STORE THE MACHINE AT ANY LOCATION SUBJECT TO FREEZING TEMPERATURES..
- ✓ ALWAYS LEAVE THE PROCESSING CHAMBER OPEN WHEN NOT BEING USED..
- ✓ NEVER STORE THE MAGNETS ON THE DRUM WHEN NOT IN USE..
- ✓ MAINTAIN GOOD HOUSE-KEEPING AND CLEAN THE WASTEWATER DRAIN SCREEN DAILY..

AquaBlast Elite 3.0 Installation Information

1. Locate a 1" pipe inlet fitting, or the right fitting to be used with customer supplied water inlet hose, and install in the water supply line to the 1" inlet On-Off valve on the left side of the cabinet. This is listed as #9 (machine control diagram page 8). Always use two wrenches, one to hold the valve and one to tighten the fitting using Teflon tape to seal. DO NOT ATTACH THE WATER SUPPLY HOSE AT THIS TIME…. THE WATER FLOW TEST IS FIRST!

2. The AquaBlast Elite 3.0 machine has a 1-1/2" wastewater drain located high on the side of the unit and any number of fittings can be used on the drain. This permits the installation of the best customer waste-water outlet using any combination of plumbing fittings and supplies.

3. Glue a 90-degree elbow or forty-five elbow to the drain outlet, clamp a rubber flexible pipe reducer to the drainpipe assembly to permit discharge into any open or closed drain outlet….this may require an added piece of pipe… Do not connect any water drain lines using all rigid connection lines. This machine includes wheel casters and slight movement can occur…lock all caster wheels using the caster brakes when the unit if ready for operation.

4. At this time, you want to perform the simple water supply flow test found on page 9 and 10 of this manual **"Know your water supply flow volume per minute".** This is a simple test and must be performed before attachment of the final water supply hose to the unit. The hose ID and length can be different sizes but the supply hose must flow more than the machine usage of 3.9 gallons per minute. If your test shows any volume above 3.9 gallons per minute the units will still only use 3.9 gpm during the washout cycle…the machine does not use a storage tank for machine operation and water flow stops at the end of the washout cycle.





3. Last, to be attached, is the electrical power source. The unit has been shipped with grounded 20 Amp GFI power cord for operation on any 120 volt single phase GFI service outlet. It must be treated as a dedicated 20 Amp. Service using 12 ga. wiring for single service outlet with no other power usage being used on the same service. If a percentage of the service outlet is already being used it is possible the circuit breaker my trip as an overloaded circuit. Never use extension cords but if needed the cord must be a 12 gage wire extension cord.





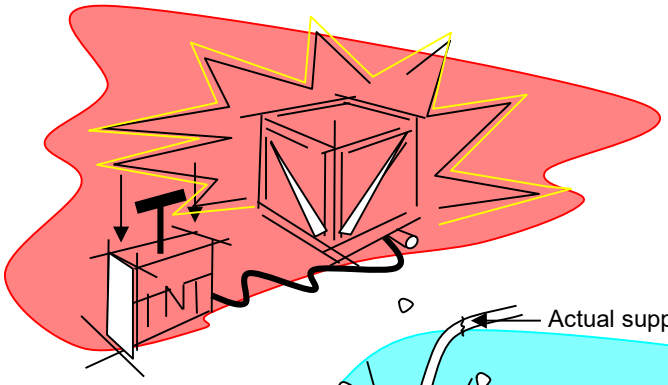
Tools

NEVER ALLOW THE MACHINE TO FREEZE OR BE STORED IN A LOCATION WHERE FREEZING TEMPERATURES EXIST. CONNECT POWER SUPPLY USING A DEDICATED 20 AMP SERVICE, 120-VOLT SINGLE PHASE GROUNDED GFI OUTLET. WIREING MUST BE 12 GAGE FOR 20 AMP SERVICE OUTLET.

SETTING UP THE AQUABLAST ELITE 3.0 WASHOUT MACHINE

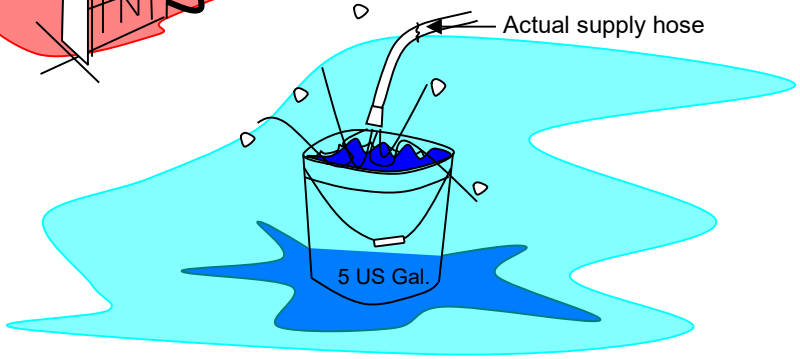
1=

Remove machine from crate and locate using machine caster wheels



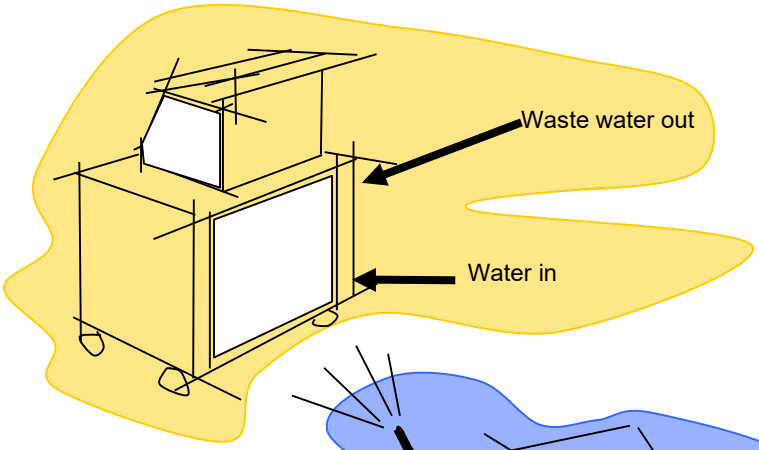
2=

Check the water flow rate at the machine using actual supply hose at the installation location



3=

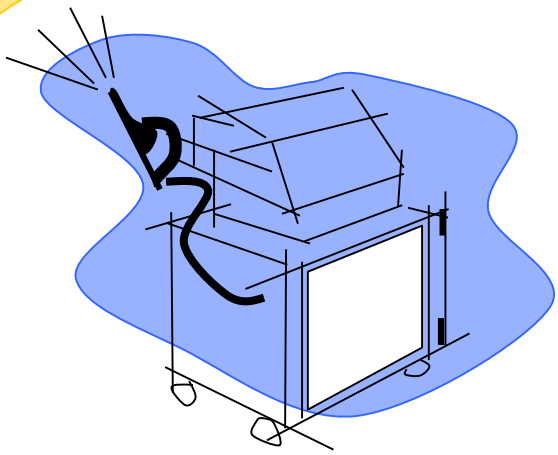
Connect washout drain and water supply using flexible drain section and hose



4=

Fill water lines using manual washout gun for air escape, one time event, taking about 5-10 seconds

Winter shipping requires the pump, lines and any tanks be drained to prevent damage



5=

Make electrical connection to machine, 120 single phase 20 amp dedicated GFI service outlet

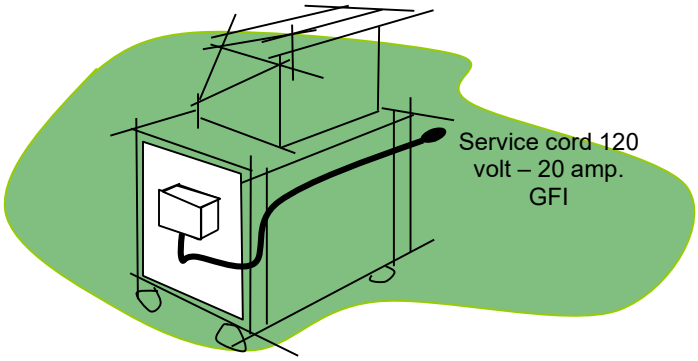


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Installation parts & supplies needed



PVC primer & glue



Sized PVC fittings for drain



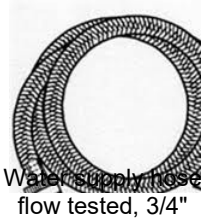
Short PVC pipe piece for drain



Flexible drain coupling machine drain to line



3/4 x 3/4 NPT water in fitting



Water supply hose flow tested, 3/4" recommended



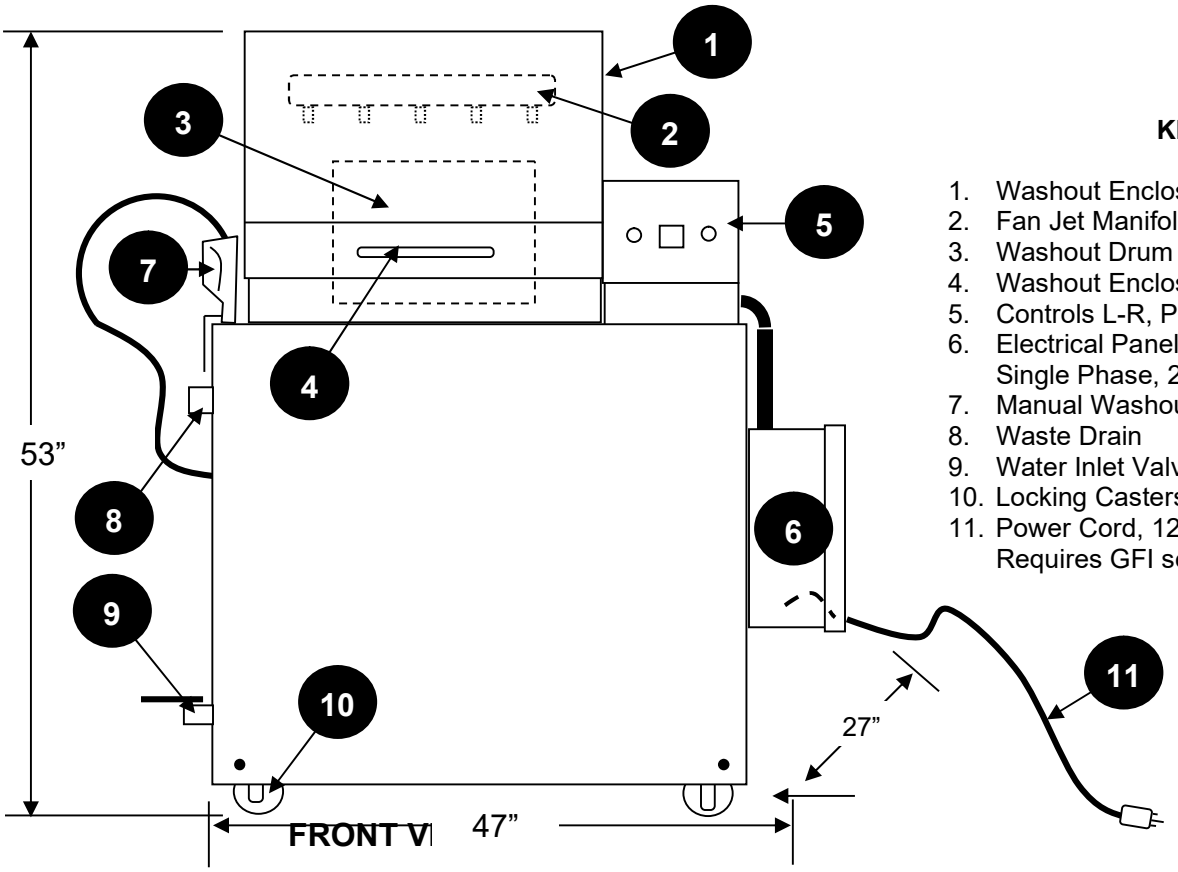
Tools





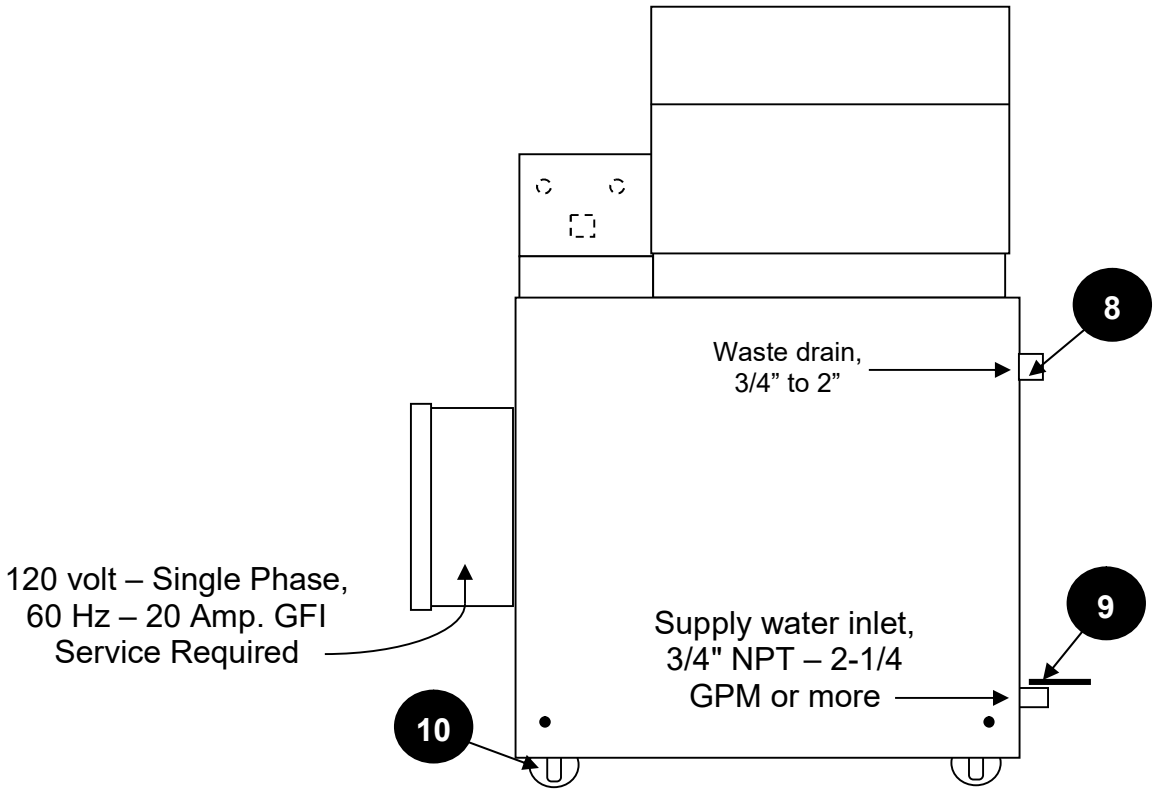
Teflon

MACHINE CONTROL DIAGRAM



KEY

1. Washout Enclosure Cover
2. Fan Jet Manifold with low flow jets
3. Washout Drum
4. Washout Enclosure Cover Handle
5. Controls L-R, Power, Time & Cycle
6. Electrical Panel Box, 120 Volt-Single Phase, 20 Amp. Service GFI
7. Manual Washout Gun
8. Waste Drain
9. Water Inlet Valve
10. Locking Casters
11. Power Cord, 120 volt grounded, Requires GFI service outlet



REAR VIEW

SET-UP MANUAL & OPERATION GUIDE

Never store the machine in any location susceptible to freezing conditions

AquaBlast Elite 3.0 Automatic Washout Machine

Important Issues

The AquaBlast Elite 3.0 washout machine is a low maintenance, Patented, pressurized unit designed for automatic production film washout. It has been designed to accomodate continious daily opeation. The unit can be used for any daily production. There are a few important issues which you should know and understand: The unit is a low water usage, high pressure design unlike existing automatic washout machines in the market today. Operation is not the same as other machines, the AquaBlast Elite 3.0 does not use a onboard water storage tank that loses heat and humidity and only uses water during the actual washout cycle. The AquaBlast Elite 3.0 address the water recycle question by using up to 80 percent less water than other automatic washout units on the market today. Built for water supplies under 4 gallons usage on an on-deman basis.

GREEN

- **WATER REQUIREMENTS:** The Elite 3.0 offers the user the lowest cost of operation and fastest washout time using the Patented enclosed pressurized low water flow with high pressure design. The Elite 3.0 does not use an open to atmosphere water storage buffer tank or an on board water storage tank because of the low water usage design. This type of construction eliminates possible tank overflows, loss of humidity and or valve failures that can result in a flooded mess not to mention the high hot water demand and cost. The pressurized low flow design allows operation of the unit to stop at any time and continue hours later with no loss of a tank holding temperature or water volume. This permits intermitent and constant film washout with minimum water usage keeping the washout times constant. Another plus with the Patented pressurized system is the elimination of humidity and heat loss often found with other older open to atmosphere water storage designs.
  The AquaBlast Elite 3.0 operates with a customer supplied total water loss system. This is a requirement to eliminate contamination maintenance and maintain consistant washout cycle times.

  The exact water supply required for the AquaBlast Elite 3.0, measured in gallons flow per minute, requires no open buffer tank with on-board water storage. See and refer to Duty Cycle Chart located on page twelve for total cycles per hour vs. washout time. Water flowing into the unit during machine cycle is regulated by water flowing out the manifold during washout. The AquaBlast Elite 3.0 ultra-low-flow manifold requires less than 4 gallons of water per minute, (3.9 gpm).… The unit can never flow more than cycle jet demand, supplying large volumes of water is not required and this eliminates the large water storage buffer tank and high water usage…more will be listed about water usage later.
  It is advised the heated water supply source, customer supplied hot water tank or generator, be set at a lower temperature to maximize total capacity by reducing recovery time if cold and hot water is not blended at the machine water inlet. Call and discuss the blended water supply option, hot and cold water blending valve, or the On-Demand hot water supply that works with the new AquaBlast Elite 3.0 low-flow design. The AquaBlast Elite 3.0 does not lose water temperature when standing idle like other units in the marketplace.
  KNOW THE WATER SUPPLY FLOW VOLUME: The standard AquaBlast Elite 3.0 with low flow manifold requires a water supply flow of less than 4 gallons per minute, 3.9 actual. Because this is an advanced design, pressurized to create faster washout using less water and higher washout pressures, the volume of water you supply into the unit is very low but important. The AquaBlast Elite 3.0 has fast processing time using very low water volumes. Supplying more water flow does not mean the unit will flow more water…the most the Elite 3.0 can use is 3.9 gallons per minute even if the supply measures 10 gallons per minute flow. Always check the supply before making any final supply line connections making sure the supply meets or exceeds the machine manifold requirements listed above.
- After the water inlet hose has been installed, slowly open the customer supplied safety inlet shut off valve and slowly open the machine water inlet valve located at the left side of the unit marked “Water

Inlet". Use the manual water washout gun to allow the lines to fill by simply pulling the trigger and holding it open allowing the air inside the lines and to bleed off being replaced with water. You must allow all the air out of the machine before you use for the first time. This is a **one time event**. Knowing the water supply flow in gallons per minute is a simple and quick test. The factory testing filled the pump with water but cold weather shipments require the lines and pump are drained… if the first cycle does not spray withing two (2) seconds turn the power off and check the water supply line making sure it is open.

- **WASHOUT CHAMBER:** This chamber has been constructed to prevent water escape using the hinged cover. You want to leave the cover open if the unit is not being used to help keep the inside dry preventing premature drum rusting. Always remove magnets from the drum when not being used.
- **POWER REQUIREMENTS:** The Elite 3.0 is a single phase 120 volt unit designed to operate on any dedicated 20 amp GFI service outlet. Make sure no other power is being used on the circuit or the 20 Amp breaker may overload. Power is not required when first filling the water llines….never use extension cords, but if you must make sure the extension cord is 12 gauge wire..
- **CYCLE DRAIN REQUIREMENTS:** Because this unit only uses the water once, the cycle drain capacity must be large enough to handle the standard water flow during machine washout cycle. The unit has a standard discharge drain size of 1-1/2". Water being discharged is located high on the side of the unit for maximum gravity drop into the drain. Always check any drain connection for leaks…..a vertical air draw, **air admitance circuit**, has been included with the AquaBlast Elite 3.0 to allow fast efficient waste water draining.
- **WATER IN CONNECTION:** This unit has a set-up similar to any home opeated water heater. Water into the unit is under pressure and requires a customer inlet shut off valve on the heated water supply, this is on the cold water inlet side of the hot water supply tank and not the outlet of the hot water supply. You are required to connect a pressurized hot water line to the machine from a customer supplied hot water source. Because the system is pressurized the hose used for machine connection must be quality high pressure type hose rated for hot water supply. Media Blast recommends stainless braided hose for the machine inlet supply with a 3/4" ID but this ID is not required, knowing the supply flow explained later will determine if any special hose ID size is required …. The customer supplied water supply already includes a water inlet shut-off valve that can be used to shut down the supply.. The unit uses standard 1" NPT threads to supply water into the main water inlet located at the side of the unit. Many different types of hoses are available at any local hardware store.
- **DUTY CYCLE:** The machine Duty Duty Cycle (DDC) is based on washout times including 30 seconds for film load and unload.. After the washout time has been established the Duty Cycle Chart will let you see the production capabilities of the unit listed in washout cycles per hour. The standard model is listed and a load and unload time of 30 seconds has been added to each washout event to creat the cycles per hour. Only the washout time required affects the total cycles per hour. The exact washout time needed will be established by first running a sample part and knowing the washout time required, this allows you to see the hourly cycle rate of the unit using the Duty Cycle Chart and washout time.

NOTE: It is important to know the water supply volume before connection to the AquaBlast Elite 3.0 Washout Machine. Take time to accuratly measure the supply flow volume amount before making the final water supply inlet hose connection, this flow rate must be known and slightly higher than the manifold usage required, 3.9 gpm …the Elite 3.0 model uses the low flow manifold design… all water flow is measured in gallons per minute. Using a watch with second hand sweep, flow water into a known water container size for one minute using the location for placement of the new Elite 3.0 machine and the supply hose used to connect to the new AquaBlast Elite 3.0 unit. Make sure the container has adaquate capacity to hold at least 5 measured gallons. If the water exceeds 4 gallons in one minute or less you have all the water required for operation of the AquaBlast Elite 3.0. Depending on the results there is no need to continue with the test if you exceed 3.9 gallons per minute flow. If a 5 gallon container is filled in 30 seconds, stop the test, you will be flowing 10 gallons per minute. This is a booster pump design, when you supply more volume you add the house water supply to the 165 psi pump pressure. If you have 50 psi with more than 4 gpm you add the house pressure to the pump pressure of 16 to equal the final processing washout pressure.

- **FILLING THE UNIT WITH WATER THE FIRST TIME:** After testing for water flow the water inlet hose can be attached to the water inlet valve. Slowely open the customer supplied safety shut off valve and

next slowly open the machine water inlet valve located at the side of the unit marked “Water Inlet”. Use the manual touch up gun to allow the air in the system to be replaced with water, this is a pressurized system unlike all other automatic washout units available today. You must allow air out of the enclosed system to first fill the machine lines with water…. this is a one time event …if the supply flow is 5 gallons per minute it will only take seconds to fill the lines, holding the manual gun open until you see the water exiting the gun is all that is required to prepair the unit for operation. The pump and lines were drained at the factory for winter shipping and storage.

- **REVIEW THE ENTIRE OPERATIONAL GUIDE PRIOR TO MACHINE OPERATION.** Most problems associated with the machine can be identified by simply reading this manual or consulting the Troubleshooting Guide. If your problem cannot be found in the Troubleshooting Guide, please give us a call. Nearly all equipment malfunction issues can be resolved over the telephone. Almost all problems can be eliminated by reading the manual first!
- **CUSTOMER SUPPLIED HOT WATER REQUIREMENTS:** The most common hot water supply uses a standard water heater type tank. The machine duty cycles will determine the water heater tank size needed to supply heated water to the system. Using the machine Duty Cycle Chart helps to properly size the system when knowing the number of cycles you require for daily or hourly operation. If the water tank is undersized for the duty cycle the washout cycle time may increase with reduced temperatures.
    - The AquaBlast Elite 3.0 model was designed for constant DDC. This with the largest drum size and area indicates a high DDC. The Elite 3.0 model will washout any number of washouts per day. Knowing the washout time and the true water usage, 3.9 gallons per minute, allows you to calculate heated water usage. **SET-UP SHEET** AquaBlast Elite 3.0 Washout Machine

The information that follows will be used to get your new AquaBlast Elite 3.0 machine set-up and operational in the shortest period of time. Use this sheet for the initial machine set-up and operation. You may refer to this sheet at any time, for more detailed operational instructions and machine maintenance refer to the main operational manual or the Important Issues above.

Remove machine from crate and locate using machine caster wheels	+	Check the water flow rate at the machine using supply hose at the location for 4 gpm or more	+	Connect washout drain and water supply using flexible drain section and hose	+	Fill lines using manual washout gun allowing the air escape, one time event	+	Make electrical connection to machine, 120 volt single phase 20 amp dedicated GFI service outlet using 12 ga. wire

FIRST

- Remove any lag bolts attaching the machine to the shipping pallet. Remove the machine from the shipping crate being careful to wear gloves and eye protection during the process. The standard machine weight is over 500 pounds, make sure you have adequate lifting abilities before removing from the skid and use the skid to position the unit as close to the final location as possible before removal from the skid. The unit includes castors allowing the machine to be rolled to the final location.
- Use a forklift taking care to spread the forks to the outside next to the machine casters….lifting channels have been supplied to prevent machine damage. Do not lift from the sides marked “No Lifting”. Steady the machine when lifting… lift the machine just enough to remove the shipping pallet.
- Install the machine allowing adequate clearance for machine front and rear access panel removal.
- Remove any items from inside the cabinet that might have been shipped inside the cabinet, this may include the manual, installation hoses and installation fittings and clamps when shipped with the unit.
- The water inlet valve is located low on the left side of the unit; see Machine Control Diagram (MCD) for location. Before final connection of the water inlet line check the supply flow in gallons per minute using the information above in the WATER CONNECTION SECTION. Media Blast has included a master water shut-off valve, water inlet shut-off valve, on the water inlet line located at the side of the machine. The water inlet capacity is based on customer flow capacity; see Important Issues above for more information about flow requirements and model selection. The customer supply flow capacity must meet the Elite 3.0 requirements stated above. A manual washout gun has been supplied and also

used to permit air escape during the first pump and line water charge, see Important Issues above for more information about the first filling. It is advised that you install a master water inlet valve on your cold water inlet supply to allow shut off if you have a hose failure on the supply line; this valve is standard with all hot water tank installations. Set the incoming water supply temperature at 90-120 degrees F° if the water is not cold water blended, ask for details about cold water blending to reduce cost of heated water supply. Use quality high pressure hot water hose rated for both hot water and water line pressure….all internal hoses are 1" ID hoses and fitting. Because the unit is portable, on casters, never connect any lines, water in or waste out, using rigid supply line or ridge final drain connection.

- Make connection to 1-1/2" drain, this may be increased or decreased in size using standard plumbing drain connectors found at any hardware store. You can also use drain hose used to pump motor home graywater. The unit must include a section of flexible drain hose for final connection to the discharge drain. Never connect using rigid drain discharge line; the discharge of water on commercial property is normally not permitted. Check local codes for restrictions.

The machine is now almost operational with the exception of the electrical hook-up. This has been left to last to insure the pump is not operated ….Make sure water inlet and cycle drain outlet are connected and open. Use the manual trigger gun to fill the machine lines by holding the trigger gun open allowing air to exit the tank and water to enter. Water will spray when the system has been charged with water. The pressurized system does not require a separate pump for the manual washout gun helping to eliminate maintenance. The manual washout gun can be used to first wet the drum, it can also be used for film touch up when extra washout time is required.

- The standard electrical for the Elite 3.0 model washout machine is 120 volt single phase, 60hz. Check machine nametag for machine electrical service…the unit requires a dedicated 20 amperage GFI circuit and the use of extension cords is not advised...if you must buy only 12 gage wire cord.
- Consult a qualified electrician to make electrical connection if you are not qualified or do not understand the important issues above for power supply requirements.

NOTE:
This unit includes the pump saver design. This design is used to detect "Low Water Supply" in the supply line to the unit. The pump saver design will automatically lower the washout pressure to zero if the water flow into the machine does not match the manifold usage... This pump saver design will help prevent dry pump operation. Always keep the washout cover open at all times when not being used. This allows the drum to dry prevent premature rusting. Never leave the magnets on the drum when not being used; magnets will pick up small iron particles that rust the drum surface.

Remove machine from crate and locate using machine caster wheels	+	Check the water flow rate at the machine using supply hose at the location for 2-1/2 gpm or more	+	Connect washout drain and water supply using flexible drain section and hose	+	Fill machine lines with water using manual washout gun for air escape, one time event	+	Make electrical connection to machine, 120 volt, single phase 20 amp GFI service outlet

OPERATION

- Turn the main machine on-off switch to the on position to Power Up the machine controls. The switch is located on the control panel; refer to Machine Control Diagram (MCD). Turning this switch to the on position will supply 120 volt power and any low voltage for controls.
- The adjustable washout cycle timer has been factory set be setting to your required cycle is needed to become familiar with the timer….using the adjustable timer dial, set the time to 60 seconds. Now use a small piece of developed or undeveloped film to test for proper cycle times. This manual includes a general Mask/Film washout time chart for Ikonics Imaging film. This is an estimated time only; time may vary with different inlet water temperatures and or different Ikonics films.

- With the lid open pre-wet the drum using the manual touch-up gun. Water tension will stick the film in place; make sure to remove any trapped air bubbles. Some like to attach films to a dry drum. After placement of the film on the drum remove two of the strip magnets from the washout tray at the front of the machine. Place one each magnetic holding strip over the top and bottom edges of the film to protect the edges of the film from the water blast. You can use film edge to edge using one magnet to hold the edges of two films. Two sheets require three magnets.
- Close the top washout cover making sure to set the lid seal by applying a small amount of down pressure on the lid seal handle… press the cycle start button, see Machine Control Diagram (MCD) for location. The unit will start drum rotation, activate the high pressure pump and continue film washout for the time setting on the cycle timer. Because this unit is an enclosed pressurized design with no water storage tank required, higher pressure and greatly reduced water flow occurs. This enclosed pressurized system is also capable of much higher processing pressure helping to shorten the washout time. Elite 3.0 has been designed for applications of only a few washouts per month to high DDC. This unit uses an extremely low-flow manifold design with water usage on below 3.9 gallons per minute. After the cycle timer has timed out open and inspect the film for correct washout time setting…adjust cycle time if needed… you can also close the lid, press and hold the jog control down and the drum will rotate, and the pump will supply additional seconds for film washout if needed. You can also open the washout chamber and use the manual washout gun for other areas.
- Remove the part holding magnets by lifting the magnet edge on the film surface first then lift the entire magnet from the enclosure. This will prevent lifting of the film when the magnet is removed. Store the part holding magnets on the bottom of the top washout pan assembly. Remove the processed film and store for drying; next re-load with new film for the next washout. **Never leave the magnets on the washout drum**, small pieces of magnetic material can rust the drum surface when trapping moisture between the magnet and the drum surface.
- Duty cycle has been determined by washout time plus 30 seconds load and unload time. The Duty Cycle Chart (DCC) has been calculated using the washout time period plus load and unload time. Low flow and High Flow manifolds will have different washout times; the Duty Cycle Chart (DCC) will show the maximum cycles per hour solely based on cycle washout time required. See the Duty Cycle Chart (DCC) for more information. Longer washout times will reduce total hourly cycles on any unit.
- Know the water supply volume meets the minimum flow before you connect the water supply line or start to process film washouts. The manifold can only flow water during film washout and only flow manifold usage measured in gallons per minute.
- Make sure to place the film between the center lines of the right and left fan jet, never use the area outside the center line of the last jet on each side of the zone for film washout... Jets overlap stops at the last jet on each side center line…film will be washed out past this area but film washout occurs at a slightly slower rate than jets with overlapping jets on each sides. The Elite 3.0 has an active washout zone of 15 inches centerline right and left jet. The drum washout area size is 15 inches allowing an expansion of the washout zone if needed at any future date. This requires a manifold change with special fan jet spacing and one more fan jet. It will be necessary to order this special manifold to accommodate the location of the drum and the placement of the fan jets over the drum washout area. This will permit the washout of wider stock but slightly reduce pressure that may slightly increase washout times and demand for water flow into the unit. The drum has been oversized to allow for future film width expansion. Additional jets will affect machine water usage; ask for details before changing the manifold jet number or size. Media Blast offers larger AquaBlast washout models.
- Never point the manual washout gun at people or pets!
- If the machine is not going to be used, turn the main power button to the off position and open the washout chamber cover and remove the magnets. Always allow the drum to dry.

Below is a general Duty Cycle Sheet for the AquaBlast Elite 3.0 washout machine…The maximum cycles per hour is based on the film washout time and the estimated load and unloads time of 30 seconds. Using the sum of these two figures allows the hourly cycles of the equipment to be listed. You can use this chart for both extreme low flow and the standard manifold models, if the washout time is 60 seconds you can load, washout, unload and load 40 cycles per hour and not worry about ever running out of water.

Machine Cycles Per Hour

Maximum cycles per hour based on 30 second film unload and load time

DUTY CYCLE CHART cycles per hour based on washout cycle times listed						
	51	45	40	36	32	30
Washout Time	40 sec.	50 sec.	60 sec.	70 sec.	80 sec.	90 sec.
All cycles per hour based on film washout time plus 30 second load and unload time						

Maximum cycles per hour based on 30 second film unload and load time

DUTY CYCLE CHART cycles per hour based on washout cycle times listed						
	27	25	24	23	20	17
Washout Time	100 sec.	110 sec.	120 sec.	130sec.	150 sec.	180sec.
All cycles per hour based on film washout time plus 30 second load and unload time						

SERVICE & MAINTENANCE

MINIMUM RECOMMENDED MAINTENANCE SCHEDULE FOR YOUR MACHINE
(replacement schedule can vary depending on equipment usage and other factors)

MAINTENANCE PROCEDURE	EVERY 4 HRS	DAILY	WEEKLY	MONTHLY	SEMI-ANNUAL	ANNUALLY
Inspect Water Jet for proper spray pattern		X				
Inspect Hoses for leaks		X				
Inspect Drain Outlet for leaks		X				
Inspect pump cycle pressure		X				
Remove and clean Y-Strainer screen					X	
Visually inspect drain pan and clean	X					
Remove magnets from drum		X				
Replace manifold jets					X	X
Inspect and replace washout lid seal						X

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Visual inspection with side panel removed				**X**		

TABLE 3: MINIMUM RECOMMENDED MAINTENANCE SCHEDULE

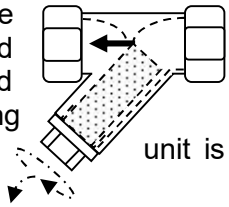
INSPECTING THE FAN JETS & SCREENS: Fan jets should be visually inspected on a daily basis using the washout chamber inspection window. Use an undeveloped piece of film the same width as the washout zone and cycle the washout. Look for any area of the film not being completely removed. When a bad pattern is noticed remove the jet and look for any obstruction in the nozzle. Many different optional nozzle patterns and materials are available on the new AquaBlast Elite 3.0 machine. Always use a blow-off gun to clean and clear any nozzle found to be plugged. Do not drill….dig….scratch or mutilate any jet during cleaning process. These are small high-pressure low flow nozzles, and they can be damaged when not properly cleaned.

WARNING: The Elite 3.0 has a high pressure pump assembly. Operation using a worn out set of fan jets may flow more water and reduce the pump pressure to zero if inlet flow amount is marginal.

It is advised that fan jets be replaced in sets and not random replacement. This maintains the fan jet washout zone and consistency. Washout pressure consistency is needed to maintain maximum film washout consistency. If no increase or decrease in the washout time is noticed the jets are normally OK ….continued usage of worn out jets may increase machine demand for water. Remember this unit is a low flow design and the jets determine the water usage. Worn out jets require more heated water supply and normally the cost of jet replacement will be saved in heated water cost savings and usage.

REMOVE, INSPECT AND CLEAN THE Y-STRAINER: The water inlet plate located on the side panel includes a Y-Strainer inside the cabinet used to protect the unit from small debris found in new and old water lines. The screen size supplied is used to protect the fanjets and any solenoids used for machine operation. This screen requires monthly removal and inspection. If the screen appears clean the monthly inspection may not be required.

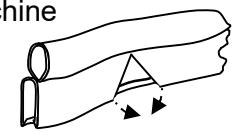
Close the water inlet valve located on the side panel and remove the front or rear panel exposing the Y-Strainer located on the inside of the lower cabinet... Use the manual washout gun to remove any pressure existing in the enclosed lines. The Y-Strainer screen can be removed and cleaned at this time. Use appropriate tools to remove the Y-Strainer screen, inspect and clean. Replace the screen, tighten the access nut and again open the water inlet valve making sure the strainer has no visible leaks. At this time you can replace any removed panels, the unit is now ready for operation.



Always Lock Out Electrical for Service

WASHOUT COVER SEAL: The washout cover includes a removable bladder seal used to keep the system neat and clean. The pressurized enclosed system is the cleanest design you can purchase today.

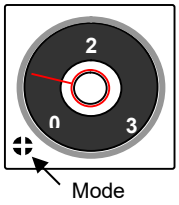
This bladder seal may wear out or become damaged during the high machine duty cycle. Replacement is quick and simple and if the seal gets damaged or torn, simply replace it with keep the machine operation looking neat and clean. Pull-off to remove and push-on new to replace. To turn a 90-degree corner use a simple set of nips to notch a 90-degree "V" pattern on the inside of the holding U clip so it is located on the corner. This will permit a 90-degree turning of the bubble seal assembly.



CHANGING THE JET MANIFOLD HEIGHT: The Elite 3.0 includes an adjustable fan jet washout distance that can be easily changed but factory set for the best performance. The manifold can be tested at different heights depending on the fan jet spread and fan jet pattern being used. To change the distances, remove the threaded handles holding the manifold in position. After removal of the two threaded stainless bolts, it will be possible to move the manifold to the back of the unit and change the size. Make sure you locate and use matching horizontal holes and re-install the threaded holding handles after selecting the new location. It is important to have the jets overlapping without conflicting patterns. Always make sure the jets are slightly angled in the anodized manifold; the pattern is visible through the optional observation window if the option has been added to the unit. The fan angle can be used for additional settings of the manifold distance. The fan pattern of each

jet should reach the centerline of the jet next to it. Test, observe, and change using an undeveloped piece of film material the same width as the washout zone.

SETTING THE CYCLE TIME: The washout cycle timer has many different time settings; the factory setting is 0-3 minute maximum cycle time. Use the movable dial to set appropriate cycle time. When the dial is set, the timer will not need to be set again unless the film thickness or type is changed. When the timer cycle ends it automatically re-sets for another repeat cycle time.
To change the dial time setting, any washout 3 minutes and under will not require changing, look for the small mode adjustment switch located in the lower left hand corner of the timer. Using a small flat blade screw-driver you can change the mode setting of .05 seconds to 300 hours. Make sure the adjustment switch is clicked into any new location.
Using the dial with graphic display of 0, .5, 1 to 3 indicating minutes, set the dial for the washout time required for the film being used. Simply rotate the dial clockwise or counter-clockwise to change the time. This is a simple 8-pin timer that is easily replaced if replacement ever becomes necessary.



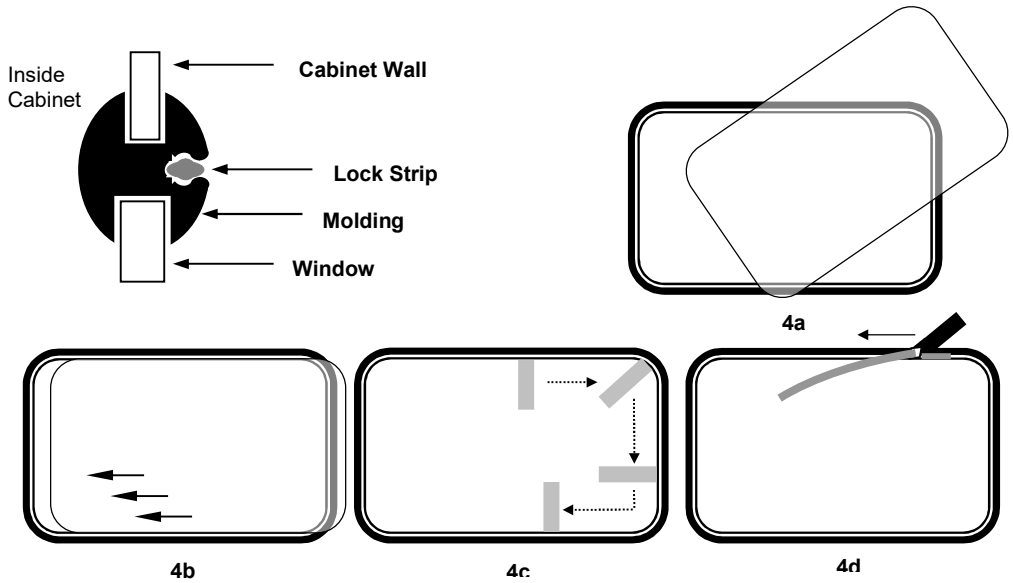
READING THE PRESSURE: A 2" liquid filled gauge has been installed on the AquaBlast Elite 3.0 model on the left side of the washout enclosure. If the gauge shows no pressure when the unit is in operation, it's an indication that the there's a clog in the water line. Refer to page 17 for troubleshooting the unit.

WATER FILTER: If you do have dirty water, install a water filter based on the debris being removed and the DDC of the machine. These filters are not expensive but make sure you are purchasing a hot water filter.

WINDOW REPLACEMENT when included: The new AquaBlast Elite 3.0 includes the observation view window. The window uses a positive locking window molding to eliminate leaks and permits washout viewing. You can use this window to check for proper placement of the fan-jet distance, proper fan jet angle and also check for proper fan-jet function. The following steps outline window replacement:

1. Locate locking strip end and remove strip from window molding.
2. Holding one hand firmly against the outside of the window, push the window from inside to outside and remove the window from molding.
3. Apply silicone spray or equivalent to the locking strip slot and the window slot. Soap will work if sprays are not available.
4. Place lower left-hand corner of the window into the window slot at mid-window (FIGURE 4a).
5. While the window is being pushed toward the left side of the cabinet, bring the window to level position and guide the top left window corner into the top molding window slot (FIGURE 4b).
6. Push the window into the left side of the window molding slot. Use the plastic stick from the Window Molding Tool Kit (part no. 100-18-123) if necessary.
7. With the aid of the plastic stick, install the second half of the window into the molding slot by inserting the stick between the outside of the window and the window slot. Move the stick around the perimeter to the lower half of the window (FIGURE 4c).
8. With the aid of the window locking strip tool (Window Molding Tool Kit), install the locking strip (FIGURE 4d).
9. Locate locking strip end and remove strip from window molding.
10. Holding one hand firmly against the outside of the window, push the window from inside to outside and remove the window from the molding.
11. Apply silicone spray or equivalent to the locking strip slot and the window slot. Soap will work if sprays are not available.
12. Place lower left-hand corner of the window into the window slot at mid-window (FIGURE 4a).
13. While the window is being pushed toward the left side of the cabinet, bring the window to level position and guide the top left window corner into the top molding window slot (FIGURE 4b).
14. Push the window into the left side of the window molding slot. Use the plastic stick from the Window Molding Tool Kit (part no. 100-18-123) if necessary.
15. With the aid of the plastic stick, install the second half of the window into the molding slot by inserting the stick between the outside of the window and the window slot. Move the stick around the perimeter to the lower half of the window (FIGURE 4c).
16. With the aid of the window locking strip tool (Window Molding Tool Kit), install the locking strip (FIGURE 4d).

Always Lock Out Electrical for Service



SAFETY VIEW WINDOW REPLACEMENT

FLANGE BEARING: The Elite 3.0 unit uses both permanently lubricated and lubricated bearing on the left side of the inside cabinet wall… this bearing normally requires no service, if equipped with grease fitting use fitting to grease the bearing yearly.

PUMP SOLENOID VALVE: The Elite 3.0 is a pressurized system for higher performance using less water and includes a master solenoid water valve. This valve requires no maintenance. If the cycle stops and the fan jets continue to emit low pressure water flow the solenoid may have a piece of debris under the diaphragm and require cleaning. Make sure the washout cover is closed and power and water has been locked out and removed, valve location is on the water circuit plate with the Y-strainer and water inlet valve. It will be necessary to disassemble the valve to clean the diaphragm and valve body…. An optional high flow panel mounted sediment filter can be added to the unit that includes a manual purge valve for quick cleaning…ask for details. This often means that your water supply is dirty. Install a quality water filter sized for your DDC.

MANUAL WASHOUT GUN: The manual washout gun is also used to fill and pressurize the lines for the first time allowing air out and water in. This gun requires no service, replace when faulty or leaking.

MAGNET STORAGE: The magnets are stored in the front of the top washout pan assembly. Never store the magnets on the drum….moisture is trapped between the two surfaces and small magnetic particles will attach to the magnets rusting the drum surface. No service or maintenance for magnet storage is required.

FRONT AND REAR PANEL REMOVAL: The removable panels are used to service and or replace any defective parts. Removal is simple and quick….loosen the holding screws pull and remove the covers by lifting away from and slightly up on the panel. Always make sure the electrical is locked out before doing any machine service.

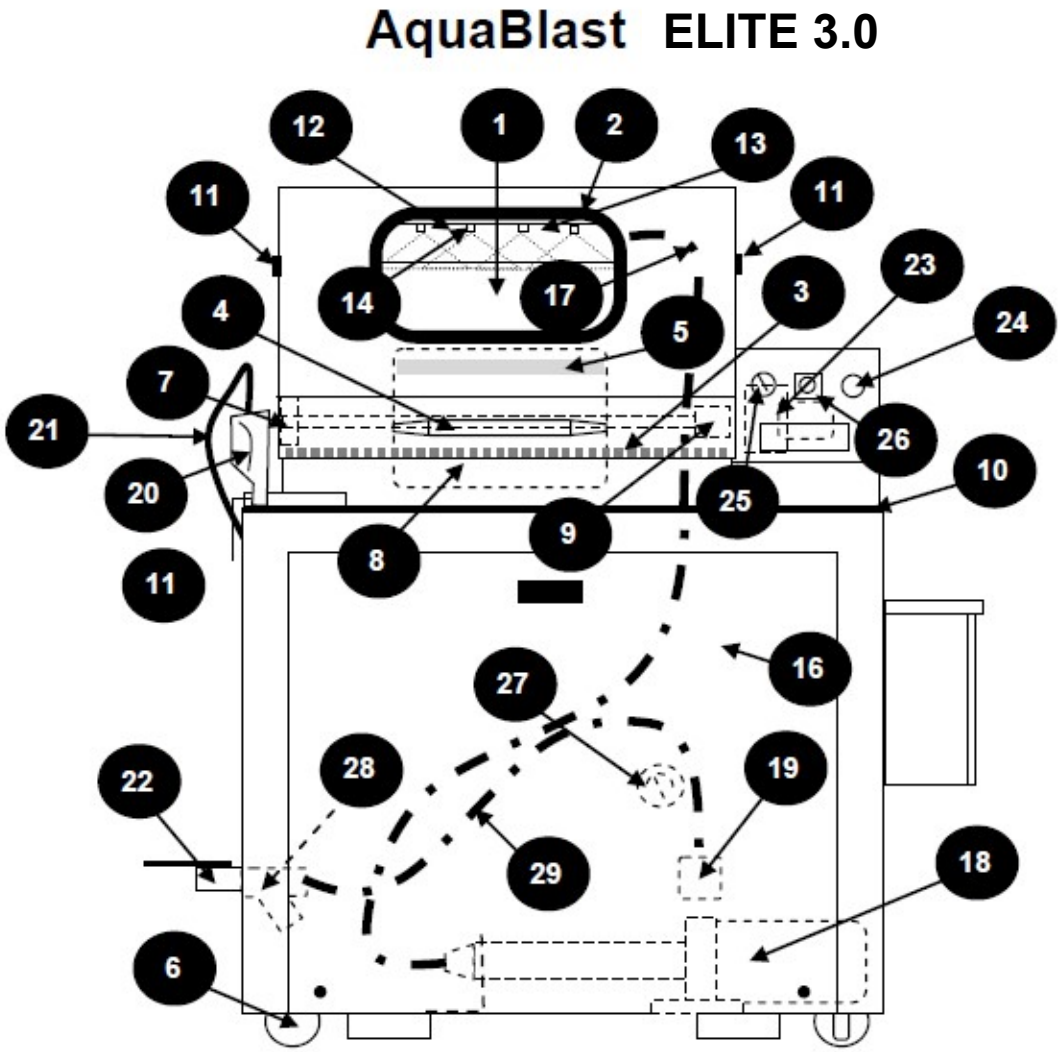
Always Lock Out Electrical for Service

TROUBLESHOOTING YOUR ELITE 3.0 WASHOUT UNIT

PROBLEM	SOLUTION
Pump cycle pressure reads low or zero	❖ Water supply volume, gpm, is less than manifold demand, check supply flow making sure 4 gallons per minute is supplied...check for other demands of the line pressure ❖ Check the flow volume (gpm) using the test on page 9 and 10 of this manual ❖ Too small water supply hose, measure supply flow for gpm using the supply hose... ❖ Water inlet valve is closed, check both customers supplied and machine inlet... ❖ Worn out fan jets, higher flow than supply will result in low pressure, replace jets and check supply hose ❖ Plugged Y-Strainer, shut down and clean strainer screen...install sediment filter if the Y-screen requires cleaning more than yearly...
Inconsistent film washout	❖ Bad film development, consult Ikonics for reasons why ❖ Bad fan jet pattern...remove and clean fan jets screens... ❖ Bad fan jet angle, check using undeveloped full width film and short cycle time to visually see the washout pattern… ❖ Placement of film beyond the right and left fan jet centerline…reposition film location during washout... ❖ Incorrect fan jet distance, make sure the fan jets overlap centerline of fan jet on either side. Use the adjustable height to change overlap setting...use the fan jet angle for fine settings… ❖ Check fan jet manifold angles making sure the visual appearance during operation looks the same…adjust as required. ❖ Short cycling the washout; add time to the washout timer... ❖ Water temperature variation, check temperature using optional gauge. This option comes as a kit and installs on the machine water inlet fitting..

AQUABLAST ELITE 3.0 PARTS Introduced May 2025

Operates using 120 Volt Single Phase 20 Amp Service… 20 Amp. GFI Safety Cord Included. Always use a dedicated, grounded service outlet. Processing Pressure will be 165 PSI added to the In-House water pressure. When checking the water flow requirements for 4 gallons per minute, if you only have 4 gallons per minute flow, you will only use booster pressure of 165 for film processing. No additional supply pressure will be added to the processing pressure unless your water flow is higher than 4 gallons per minute.



PARTS FOR THE AQUABLAST ELITE 3.0

Bubble #		DESCRIPTION	QTY	PART NUMBER
1	AB	Safety window, option	1 each	115-08-125
2	AB	Window molding with lock strip, option	1 each	115-08-126
3	AB	Washout lid seal, per foot	1 each	101-11-147
4	AB	Washout lid handle	1 each	115-09-123
5	AB	14” magnet strips	6 each	100-11-605
6	AB	Locking caster wheels	4 each	115-09-112
7	AB	Flange bearing, drum drive	1 each	115-09-103
8	AB	Drum	1 each	115-09-104
9	AB	Drive coupling	1 each	115-09-106
10	AB	Top plastic edge trim per ft	per ft.	115-09-107
11	AB	Stainless enclosure pivot pins	2 each	115-09-108
12	AB	Manifold, 12” washout zone	1 each	115-09-105
13	AB	Manifold plugs, 1/4"	5 each	115-09-109
14	AB	Washout fan jets, each	5 each	115-09-120
14	AB	Washout fan jet strainer screen, each	5 each	115-09-121
15	AB	Washout supply hose, cabinet to manifold	1 each	115-08-107
16	AB	Water supply hose, pump outlet to cabinet	1 each	115-08-114
17	AB	Water supply hose, main inlet to pump inlet	1 each	115-08-108
18	AB	Booster pump, 1 hp 120 volt	1 each	115-07-100
19	AB	Solenoid valve pump inlet	1 each	115-09-102
20	AB	Manual washout gun	1 each	115-09-111
21	AB	Manual washout gun hose	1 each	109-15-375
22	AB	Water inlet valve, 3/4"	1 each	104-26-122
23	AB	Gear Motor Drive	1 each	115-09-100
24	AB	Cycle switch	1 each	112-09-602
25	AB	Power on switch	1 each	112-09-601
26	AB	Timer switch	1 each	115-09-113
27	AB	Pressure testing gauge	1 each	115-08-110
28	AB	Y-strainer	1 each	115-09-125
29	AB	SS water supply to pump inlet	1 each	115-08-106

AquaBlast ® Elite 3.0

MBA Mediablaster® Cabinets By: MEDIA BLAST® MADE IN THE USA 591 W. Apollo St., Brea CA. 92821 (714) 257-0484 www.mediablast.com

WARRANTY

Media Blast & Abrasives, Inc., hereinafter known as “Seller”, warrants the equipment and products sold hereunder against defects in material and workmanship for a period of one year from the date of shipment to buyer.

Equipment, products or parts manufactured by others but furnished by seller will be repaired or replaced only to the extent of the original manufacturer’s warranty (except motors).

The following conditions apply to limitations:

1. High wear parts are not covered, these parts include windows fanjets, fanjet screens and other parts exposed to excessive
2. Warranty does not apply to misuse of the machine to include improper use and or installation of the equipment.
3. Always purchase the correct DDC model for the machine DDC, Daily Duty Cycle for the highest Daily Machine Usage during the busiest days of the year, exceeding the DDC can prematurely wear out critical parts.
4. The machine warranty is not transferable and only applies to the original buyer.
5. Replacement warranty parts will be sent at no charge to the buyer for warranty replacement. The cost of labor is not covered under the machine warranty unless preformed at the seller’s facility.
6. A Returned Goods Authorization (RGA) form must be obtained before the product is returned to seller for warranty repair. Without an RGA number the product will not be accepted.