

SET UP SHEET FOR THE CrystalBlast Expanded Cabinets

The standard nozzle size for the CrystalBlast Sandcarving line of equipment is 3/32" using 6 cfm @ 35 psi blasting pressure. This will produce the finest film detail using 180 mesh abrasive with the proper film thickness.

If the machine can be used with the larger 1/8" nozzle less blasting pressure will be required to maintain the same film detail.

The larger the nozzle, worn out 3/32" is larger, the more abrasive is delivered and the more often you cycle the dust collector cleaning cycle.

Most Expanded Cabinets include the pressure pot vibrator assist for loading the pressure pot with larger cabinet sizes.



Please read this sheet before operation of the machine. This single sheet will help you to understand proper setup for the machine and any special items making sure the machine operates properly. Use the machine manual for proper adjustment, operation and service of the machine.

After the machine packaging has been removed and the machine has been placed in its user location. You can remove any unpainted leg braces used for shipment at this time.

Make sure you have enough compressed air volume for the blasting pressure you will be using. The 3/32" nozzle inside the Expanded models consumes 7 cfm @ 40 psi blasting pressure. Media Blast advises doubling this volume of compressed air to allow for nozzle wear that demands more compressed air volume. Look for a compressor indicating at least 14 cfm delivery at 90-100 psi. Never use the displacement cfm listed on the compressor, this number has zero pressure inside the tank and you will quickly see the number at 90 to 100 psi is less. Unless you maintain 90-100 psi it is possible the machine air controls will not function properly for the vibrator cleaning cycle.

1. Install an ambient dryer on the machine air inlet or wall if the machine will be use more than one hour per day. All Expanded models are designed to be a 50% machine duty cycle using the standard 3/32" sandcarving nozzle. Using a larger nozzle will require cleaning the dust collector more often and produce less part detail. The 50% duty cycle relates to about 4 hours of daily sandcarving.
2. Make sure to check any hard line air compressor supply lines for restrictions in the form of undersized plumbing fitting, tee fittings or small undersized air controls that might be located on the compressor.
3. Insure the air is cool, dry and moisture free. If the compressor is marginal in cfm volume or close to the cabinet, the air will transfer into the cabinet hot passing through the air filter/regulator and moisture will be created inside the cabinet, abrasive will then stop flowing. A larger compress volume equals cooler compressed air and a longer lasting air compressor. 16 to 18 cfm is a good match for the Expanded machine models.
4. It is advised you install a lockable main air shut-off valve before the air inlet into the machine; It is located right side of the dash panel next to the air filter. This permits machine maintenance in the future.
5. Make sure the line pressure into the machine does not exceed 125 psi. It is possible to damage some controls with excessive line pressure.
6. All blasting cabinets require a negative pressure inside the cabinet. The Expanded models use 220 sq.ft. filter cartridge, patented separator reclaimer good for 180 mesh and larger operation and a 700 cfm Radial Pressure Blower with a running cfm of 500.
7. The compressed air supply line for this model should be 3/8" ID hose using hose barb fittings. Never use 1/4" yellow spiral hose or quick disconnect fittings on a machine with pneumatic vibrator cleaning cycle.
8. Plug the machine service cord into any 20 amp. 120 volt single phase 60 cycle service outlet. It is important that no other electrical items are running off this service outlet. Radial Class III Blowers require a second to reach proper rpm, if the service line is not isolated and the circuit breaker is old it is possible to have the circuit breaker trip...NEVER USE EXTENSION CORDS.
9. Keeping the dust collector clean is key to a clean area. If you are using a larger nozzle size (1/8") it will delivery twice as much abrasive in pounds per minute as the standard 3/32" nozzle. This means you want to clean the dust collector more often, twice as often, to maintain proper airflow. Exceeding the machine daily duty cycle and increasing the daily cleaning cycles can increase the machine daily duty cycle.