

RELIANT

Typical Maintenance Schedule for Media Blast Enclosure with Cartridge Filtration

We want your equipment to run smoothly and efficiently for years to come! Here are some common maintenance tasks that can extend the lifespan of your blast room and prevent costly downtime. Performing these scheduled, routine tasks will not only help prolong the life of your blast room, it will assure that it remains eligible for warranty coverage.

EVERY DAY

Check/Clean Blast Room Floor



Before using the blast room, check the interior floor in case it needs to be swept or vacuumed to remove debris and spent media—be sure to keep trash away from the exhaust filters. Be sure to remove accumulated media from the area under the cartridge filters and/or empty the collection bins if you use them.

Check/Clean Blast Room Walls & Lights



Inspect the blast room's interior and check the walls and ceiling in case they need to be cleaned by hand or vacuumed/blown down to remove debris. Carefully clean the glass of the light fixtures to prevent build-up.

Inspect the Anti-Bounce Belting



Examine the anti-bounce belting for excessive wear or rips and replace if necessary to protect the structure of the blast room.

Manually Pulse-Clean the Cartridge Filters



At the end of each shift, set your exhaust system controls to manual mode and use the manual cleaning button on the control panel to pulse the filters 3-6 times. This helps dislodge any media that wasn't removed during normal operation. In a typical shop environment, the cartridges can be cleaned this way for months before needing to be replaced.

Maintain a Log Book



By keeping a log of key information from daily and weekly inspections, such as filter condition, the owner/operator can gain a better understanding of the blast room's performance characteristics. By logging unexpected events, like the blast room's failure to adequately capture airborne debris, the operator can help speed the troubleshooting process and reduce downtime. **MAKE A BLAST ROOM LOG AND KEEP IT ACCURATE AND UP TO DATE!**

WEEKLY

Inspect All Filters



Inspect both the cartridge filters and the final filters. Check for obvious damage or signs of excessive debris build up, such as "plume" shaped accumulations of dust and dirt around the edges of the final filters (where they are mounted to the filter modules). It is much less expensive to address potential issues before the fan becomes contaminated or damaged by debris or the final filters become so clogged that they restrict normal operation than to wait until a serious problem occurs.

ONCE A MONTH

Rotate the Cartridge Filters



First pulse-clean the filters 3-6 times, then loosen the retaining nuts and rotate the cartridge filters ONE QUARTER turn (90°). The cartridge filters typically capture most of the airborne debris on the sides facing the interior of the booth. Rotating the filters will help even out wear and make them last longer.

Check the Vented Doors



Every month it's important to inspect the doors. They need to be checked for sagging or alignment issues and adjusted if necessary.

ONCE EVERY 1-6 MONTHS

Replace the Exhaust Module's Panel Filters (Final Filters)



It is important to routinely replace the final filters. Clogged filters will impede air flow through the blast room and reduce the blast room exhaust's performance.

Clean the Cartridge Unit Air Hoses



Completely remove the hoses that connect the control panel to the cartridge unit. Inspect them for damage and clean them using compressed air. **IMPORTANT:** Do not blow compressed air through them while they are attached to the unit.

ONCE EVERY 6-18 MONTHS

Replace the Cartridge Filters



Our standard cartridge filters last for up to about 2,400 hours of operation, which works out to over a year of usage in most shops. In a production environment where work is being done in multiple shifts, a significant amount of airborne debris is being generated on a regular basis, or the cartridge filters are being pulse-cleaned constantly throughout the day, filters will need to be replaced more frequently.

ONCE A YEAR

Service the Blast Room's Exhaust Fan/Drive & Test



Have a service technician inspect, clean (and replace if damaged or degraded) the blast room's exhaust fan. Be sure to check bearings for excessive play or noise. Make sure the motor is clean, especially the motor's cooling fan and grill on the rear, and then test the exhaust fan for proper performance. Locate and ensure that the two (2) set screws on the fan wheel are tight and that the fan is properly aligned on the shaft.

Check Blast Room Structure



About once a year you should look over the blast room's structure to make sure there are no unusual gaps between panels, at seams, etc. and apply caulk to any that you find. Serious issues with the structure should be addressed immediately with a skilled service technician.

By following this inspection and maintenance timeline, you'll get the best performance from your Reliant blast room. If you have questions, need advice or want to get maintenance or repair parts, call Reliant Finishing Systems at (888) 770-0021 or contact us via email at info@reliantfinishingsystems.com.