

MRS/VRS MANUAL

1.0- Installation:

1.1 - Dust Collector:

Place dust collector on level surface. Collector may be installed outdoors providing at minimum, an overhang or roof is provided over unit to afford protection. Collector must be within 15 ft. of blast room. Position collector to easily access doors and filter pulse timer. Install 1" N.P.T. line to filter pulse manifold. 100 airline maximum P.S.I. cartridges must be provided with clean, dry air at all times. Connect duct to inlet. See drawing for dust collector install.

1.2 - Motor and Fan:

1.2A - Direct Mount:

Motor and fan assembly may be mounted directly to inlet on top of collector. Flange and hardware provided. Position fan outlet as desired. Connect electrical as required, provide motor starter and fused disconnect. See drawing for dust collector/fan install.

1.2B - Remote Fan Mount:

Large fans must be ground mounted and securely attached to concrete or steel foundation. Flexible hose or metal duct work is required for connection from dust collector outlet to fan.

1.2C - Filter Pulse Timer:

Requires 115 vac 1 phase. Timer is factory set - optional settings are available.

2.1 - Blast Room:

2.2 – Floor Excavation:

NOTE: If above ground hopper is utilized hopper should protrude through room at desired location. An opening must be made in enclosure for this hopper. Elevator should be located directly outside room. See MRS drawing.

2.2A - Sweep In Floor:

To find pit location, first locate desired position of blast room and mark accordingly. Next locate desired position of reclaim equipment and mark accordingly. Room will install partially over floor pit to allow for sweep in recovery. Install floor pit, floor hopper and lower elevator section.

2.3 - Room Floor:

Steel floor (1/4 " thick minimum) should be installed if required, prior to wall erection, tack weld floor sections together. Fabricate openings in steel floor and allow sweep in hopper to protrude through floor for screen removal (Floor may be welded to trough.)

2.4-Room Walls:

Locate and assemble back corner of blast room. Secure all hardware. Next, assemble the rest of the back wall and the other corner. Install first roof panel with angles and first (2) side panels to back wall. Secure all hardware. Continue to assemble roof and side panels, spot check with level prior to securing hardware for accuracy.

Install front panel with door hinges and secure hardware.

2.5 - Securing Room To Floor:

Angle supports are provided to attach room to floor. Angle may be tack welded to floor for permanent installation. If concrete floor is utilized, room may be moved or dismantled attach angle to floor using tapcon screws or cement anchors.

2.6 - Sealing Room Joints:

A small bead of clear silicone sealant should be applied to all joint surfaces inside the completed room.

2.7 - Door Installation:

Stand front doors and position drill and bolt hinges to front of room where needed. Check for proper operation. Install rubber door sweeps to bottom of doors.

2.8 - Recovery System Installation:

Locate above ground hopper, and screen. Position hopper at desired location.

Locate storage hopper and reclaimer and mount blast machine with hardware provided. If large capacity storage hopper is provided, bolt legs to hopper (if removed) and stand hopper in desired location, attach reclaimer to hopper. Attach hose to outlet of reclaimer and to connection on dust collector.

2.9 - Blast Machine Installation:

Position blast machine under hopper. Attach connecting hoses from twinline to corresponding coded connections on blast machine.

3.0 - Final Connections:

Install tee near airwash separator and connect to 4" outlet w/ slide gate on separator. Connect hose. Install tee on blast room and connect hoses. (Note: hose may be suspended with steel strap or rubber straps for security.) See dust collector drawing.

3.1 - Install Lighting and Covers:

Unpack plexi glass and install over light cut outs in ceiling panels. Install fluorescent lights and secure with brackets provided. Electrical connections should be made at this time.

4.1 - Blast Machine and Accessories:

Refer to operating and maintenance instructions for blast machines.

Preparation Prior To Operation:

All functions of the system should be tested independently.

1.) Dust Collector:

Check rotation of motor/fan.

Inlet air pressure to filter pulse should not exceed 100 P.S.I.
Check operation of pulse timer.

2.) Recovery System:

Inspect elevator for proper rotation. On vacuum recovery systems check motor rotation. Pressurize blast machine & inspect for leaks. Then depressurize. Fill blast machine with abrasive through hopper door (6 cu. ft. capacity). On large capacity hopper systems fill through recovery trough. (Do Not Overfill)

3.) Blast Room:

Check for adequate ventilation from collector (i.e. doors should have resistance when opening) within room.
Check all lights are operating.
Check operation of safety interlocks.
Check operation of helmet.
Operator should outfit himself with all safety equipment including respirator and test operation of blast machine at this time.
All components should be in operation prior to testing.
Refer to ultra blast machine operation manual for adjustments, etc. to blast machine.

Initial Operation:

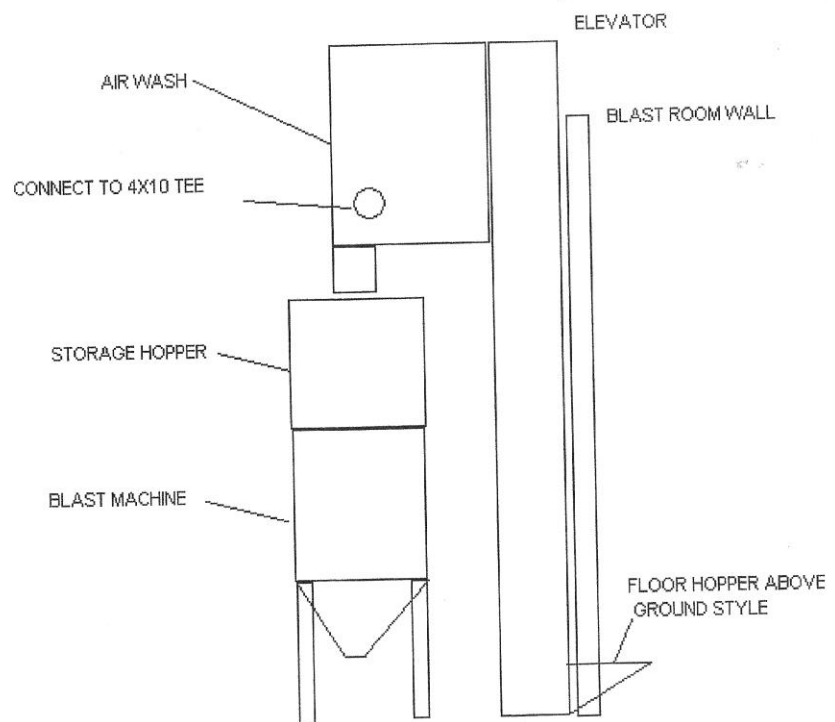
- 1.) Operator should blast with the system for 15-30 minutes cycling the remote control on/off frequently. (Blasting a small part is ideal for this test.)
- 2.) For MRS to reclaim media in blast room: sweep all material to floor trough or conveyor, depressurize blast machine.
For VRS to reclaim media in blast room: close slide gate in room, then sweep all material to floor trough with blast machine depressurized.

Refer to blast manual and bucket elevator manual for maintenance and trouble shooting information.

Helpful Hints:

- 1.) Do not over fill the blast system.
- 2.) Always check for proper ventilation in room - room should not be excessively dusty while blasting.
- 3.) Always operate recovery system when blasting, and especially when attempting to reclaim.
- 4.) Clean secondary screen on air wash daily. Clean screen on vacuum systems daily.
- 5.) Empty dust drum on collector daily.
- 6.) Check blast machine, hose, twin line and switch for leaks before operating.
- 7.) Maintain good housekeeping around unit, clean up excessive grit, dust, etc.
- 8.) Repair any leaks immediately.

MRS RECLAIM SETUP



DUST COLLECTOR INSTALLATION

