

This is not intended to replace the Operator Manual. One is available upon request.

OPERATING INSTRUCTIONS for ECOQUIP VAPOR-ABRASIVE® BLAST EQUIPMENT

1 HOSE CONNECTIONS

- a. Connect **purged** Supply Air Hose to the appropriate connection on the Panel, making sure rubber grommets are in good condition and in place, be sure to use Whip-Checks and Safety Pins
- b. Turn on Supply Air Valve (200 psi maximum), and confirm that everything is normal – no air leaks
- c. Connect Blast Hose to the appropriate connection on the Panel, making sure rubber grommets are in good condition and in place, and that you use Whip-Checks and Safety Pins
- d. Connect Dead Man hoses or electric cords, depending on the Dead Man Handle being used

2 BLAST POT SETUP PROCEDURE

- a. Selector Valve in OFF/RINSE position – Abrasive Meter Valve 1/4 turn open – Abrasive Ball Valve closed
- b. Fill Water Tank with clean, fresh water
(If your application requires rust inhibitor, follow the manufacturer's instructions.)
- c. Depress and engage the cross-pin to hold the Blast Pot's spring-loaded Bung open (add some water into the Blast Pot **before** adding Media)
- d. Add desired amount of Media (200 lbs **minimum**, 500 lbs **maximum**) into the Blast Pot while continuing to fill the Blast Pot with water
- e. Use Rinse Valve to rinse basin of Blast Pot and help wash Media into the Blast Pot and clear the Bung and Seal of media (E-Stop must be pulled out for Water Pump to operate)
- f. Continue to fill the Blast Pot with water, until the water level reaches the Blast Pot's Bung Seal
- g. Turn Bung Handle until the pin is released and the spring pops the Bung up against the Bung Seal
- h. Turn Selector Valve to FILL/FLUSH position – the Auto-Vent will purge all air from the Blast Pot
- i. With Abrasive Ball Valve closed, adjust Blast Pot Pressure 20 psi higher than **planned** Blast Pressure
- j. After Blast Pot has been fully pressurized, rotate Selector Valve to OFF/RINSE position, push in E-Stop

3 BLAST SETUP PROCEDURE - CONTROL PANEL

- a. Selector Valve in OFF/RINSE position – Abrasive Meter Valve 1/4 turn open
- b. Rotate Selector Valve to BLAST position (it can be rotated in either direction)
- c. Pull out E-Stop
- d. Activate Dead Man Handle and adjust Blast Pressure Regulator to desired set point
(Remember to keep Blast Pressure 20 psi **lower** than **original** Blast Pot Pressure)
- e. Open Abrasive Ball Valve
- f. Fine-tune Abrasive Meter Valve (Water Pump should stroke 1 ~ 1- ½ times per second when set properly)
Note: Setting Abrasive Meter Valve too high will cause excessive consumption of Media and water (but it will **NOT** improve performance)
- g. Vapor-Abrasive® Blast System is now ready for blasting

4 WASH DOWN PROCEDURE

- a. Abrasive Ball Valve closed
- b. Rotate Selector Valve to WASH DOWN position.
- c. Activate Dead Man Handle, WASH DOWN is initiated but it will take a moment for all of the Media to clear the hose
WARNING: ONLY WASH DOWN any surface you have **already blasted** or intend to blast, because there will always be some residual Media in the hose
- d. **Use WASH DOWN before going on break, and leave Abrasive Ball Valve closed when not blasting**

OPERATING INSTRUCTIONS for ECOQUIP VAPOR-ABRASIVE® BLAST EQUIPMENT

5 RECHARGING THE POT

- a. Once Media stops blasting (indicating the Blast Pot has run out of Media) you will need to Recharge the Blast Pot
- b. Close Abrasive Ball Valve
- c. Rotate Selector Valve to OFF/RINSE position
- d. Open Dump Valve slowly to depressurize the Blast Pot (catch this water if local laws restrict run-off)
- e. Fully open Dump Valve to drain enough water in order to make room for more Media
- f. Once the Pot's pressure is zero, open Bung and add Media (minimum 200 lbs, maximum 500lbs)
- g. Close Dump Valve and Rinse any Media from the basin of the Blast Pot, the Bung, and Seal - fill water level up to the seal of Blast Pot
- h. Rotate Bung Handle until it pops up tightly against the Bung Seal
- i. Rotate Selector Valve to FILL/FLUSH position until the Pot is pressurized
- j. Rotate Selector Valve to BLAST position and continue blasting

6 SHUTTING DOWN THE SYSTEM

- a. After blasting is complete, perform the WASH DOWN Procedure (#4)
- b. When Media has stopped blasting, and only water and air are coming from the Blast Hose, rotate the Selector Valve to the OFF/RINSE position.
- c. Keep the Dead Man Handle activated until only air is coming from the Blast Hose
- d. The Blast Hose is now clear of Media and water
- e. Make **SURE** the Abrasive Ball Valve is closed, release the Cam Lok Coupling between the Abrasive Ball Valve and the Panel
- f. Hold a bucket up to the Cam Lok Groove and rotate the Selector Valve to WASH DOWN – this will flush Media from the internal plumbing of the Panel
- g. Rotate the Selector Valve to FILL/FLUSH
- h. Hold a bucket under the Abrasive Hose and **SLOWLY** open the Abrasive Ball Valve – this will allow the unspent Media to be pushed out of the Blast Pot and be recovered in the bucket
- i. Eventually, the pressure in the Blast Pot will be relieved, rotate the Selector Valve to OFF/RINSE, and then engage the Bung in its open position – all of the Media and water should pour out of the Blast Pot
- j. Use the Rinse Hose to squirt water into the Blast Pot over a 360° arch to flush out all of the Media.
- k. **Shut off the Air-Supply Hose, then activate the Dead Man until all pressure in the system is relieved**
- l. Confirm Supply Air pressure gauge shows zero – only then is it safe to disconnect the Air-Supply Hose
- m. Disconnect and roll up the Blast Hose
- n. Following local laws, empty the water tank because untreated water will eventually stagnate
- o. **If your weather is cold and there is any possibility of a freeze before the Equipment will be used again, see the Operator Manual for instructions on winterizing the System.**

See Operator's Manual for more detailed instructions and for all warnings and cautions