



14241 Midlothian Turnpike #177  
Midlothian, VA 23113  
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### **System Requirements:**

- 1) **Building:** Concrete pad & utilities.
  - a) Minimum dimensions are 13' X 28' with dryers mounted externally on outside wall.
  - b) Optimal wash bay dimensions are 15-16'w x 33-35'l for dryers inside bay. Many newer buildings are 40' long to accommodate more wash accessories in the future. *Please consult Blastoff with details and questions, as numerous variations exist.*
  - c) Plus small equipment room usually 6-8' x ½ length of building located at either end. However, best placed on the entrance side of the bay.
  - d) Bay doors, heated floors, heat per geographical area.
- 2) **Fresh Water Supply:** 40 gallons per minute of fresh water supply (booster may be required if under 18gpm). An optional, but expensive, Reclaim System reduces the freshwater requirement by 80%.
- 3) **Air Supply:** Standard air compressor. Min. 10 CFM, minimum 125 psi. Check with selected manufacturer's electrical requirements (usually 30 amp, 230V Single or 3 Phase).
- 4) **High Pressure Hoses:** Two ¾" high pressure hoses from pump stand to undercarriage and track frame once measured on-sight, are considered plumbing and supplied by customer. Including any HP hoses required to self-service bays.
- 5) **Electrical:** To Main Pump Station Wash Only.
  - a) 80 Amp, 230V, 3-phase for 25HP high-pressure motor. Note: 25 HP motor draws less the 60 amps when operating. It is not under full load. Likewise, dryer motors operate about 40% less.
  - b) 2 separate 20 Amp, 120V single phase breakers inside control panel
  - c) Customer's electrician to make ALL wiring, connections, materials needed for all equipment and building including Lights, Blowers,

Wash and other Accessories. Blastoff will make all terminations inside PLC/Control Cabinet Only.

**Blastoff Wash Options & Accessories:**

- a) 140 MPH Dryers: Three or Four 15 horsepower Air Dryers with arch, motor starters and controls. Requires 60 amp breaker for each fan, 230V, 3-phase. (Note: dryers are normally NOT operating while 100-amp, high-pressure pump is). **Note:** to reduce amp loads to 25 amps each/ dryer, 10 horsepower motors are also available only reducing airspeed by 8 MPH and lowering the total system 230V, 3-phase requirement to 140 amps.
- b) Self Serve Requirements:
  - a. ½” water line minimum of 5 gpm
  - b. 15 amp, 230V, 3 Phase breaker
  - c. 5 cfm air at 50 psi
- c) Entry System: (By Others) Includes cash, credit cards and loyalty. See selected manufacturer for specs. (Usually additional 15 amp, 120V single phase). Systems offered are by Standard Change Makers, Unitec, Hamilton and Exacta.
- d) Optional: Spot Free Rinse.
- e) Optional: 1 extra 10 HP side Blowers instead of Spot Free. Requires 1 additional 50 amp, 230V, 3 phase breaker.
- f) Optional: Water Softener. (most often required)
- g) Optional: Reclaim (if required). See selected manufacturer for specs.
- h) Incoming heated water.
- i) Gasoline Pump Interface.

IMPORTANT: If any of this is unclear, please CALL First.