

INSTALLATION INFORMATION FOR YOUR LARGO STATIONARY OIL FIRED PRESSURE WASHER

Refer to your Operator's Manual and the Beckett Oil Burner Manual prior to installation/operation of this Equipment. Use a qualified installer. Installation must comply with all applicable codes. Contact your electrician, plumber and/or your local distributor for specific details.

WARNING: PROFESSIONAL SERVICE RQUIRED

Incorrect installation, adjustment, and use of this Oil-fired Pressure Washer could result in severe personal injury, death or substantial property damage from fire, carbon monoxide poisoning, soot or explosion.

PLACEMENT:

1. Set the machine in a level area 20ft away from any flammable materials.
2. Place the machine in an area where it will not freeze.
3. Place the machine at least 2ft from back wall and 5 feet from other walls.
4. Allow enough space to service the machine.
5. Place the machine where it can be vented directly outside without any 90-degree elbows.
6. Do not place in a room with exhaust fans in close proximity.
7. Do not place this machine in a wash area that does not have a partition between the machine and the wash area.
8. Recommended Option: The fuel pump on the burner can draw fuel from an auxiliary diesel fuel tank. Ensure a good fuel filter is provided to help prevent burner problems. Have your Distributor involved if you choose this optional installation.
9. If this unit has an onboard fuel tank that will be used, be sure your operators are instructed to only pour clean diesel, kerosene or home

heating oil into the tank from a clean container. **Turn this unit off and allow to cool before refueling.**

FUEL: #1 or #2 Fuel Oil Only (ASTM D396)

WARNING: DO NOT USE GASOLINE, CRANKCASE OIL, OR ANY OIL CONTAINING GASOLINE.

INLET WATER: This machine requires a minimum of 1 gallon of water more than the pump operating GPM at 60 psi to operate correctly. High pressure water may require a water pressure reducing valve. Refer to the Serial Number Plate for this machines GPM.

ELECTRICAL: This unit may be either Single Phase 208 or 230 or 3 Phase 208/230/460. Refer to the Serial Number Tag on the inside of the front control panel. (Note: 460 Oil Fired Units have a stepdown transformer to run the 120VAC Burner)

Largo Stationary Oil-Fired Hot Water Stationary units are equipped with 24VAC controls including the Motor Controls, Relays, Solenoids and Burner Controls. The Unit is fused both on the incoming high voltage and 24VAC low voltage side of the transformer.

Three Phase Units may be wired 208/230/460 VAC. If FIELD converted, both the Transformer and the Motor may need to be rewired. Wiring diagrams are on those parts. You must make sure that the overload is sized to the correct amp load and may need to be replaced to correct for the voltage change.

Single Phase Machines can use either 208 or 230 voltage.

Note: If Field converted, the Transformer must be configured to the voltage determined at the location. A transformer wiring diagram is located on the transformer.

Single and Three Phase Units must be installed in accordance with local codes and National Electric Code . Use a qualified licensed Electrician.

BURNER SPECS: This Unit is equipped with a Beckett Oil Burner. The Burner main components are: Transformer, Fuel Nozzle: (2.25 90A), F160 Head, 3gpm Fuel Pump (125psi) Airband & Shutter (Set at 0/4) Note: Fuel Pressure may require *Minor adjustments for clean burn. Refer to Burner Manual before changing. We recommend your Distributor make this adjustment.*

EXHAUST VENTING/INLET/COMBUSTION AIR:

Follow all local and national codes

WARNING: ADEQUATE COMBUSTION AND VENTILATION AIR SUPPLY REQUIRED.

Failure to provide adequate air supply could seriously affect the burner performance and result in damage to the equipment, asphyxiation, explosion or fire hazards.

- 1. The burner cannot properly burn the fuel if it is not supplied a reliable combustion air source.**
- 2. Follow the guidelines in NFPA 31 regarding adequate air for combustion and ventilation.**

It is very important to install a Back Draft Diverter between the machine and the vent stack. The Draft Diverter prevents back drafts that will distort a clean burn and assist in preventing freezing air from entering the burner area. Installing a draft diverter may also help to prevent freezing air to back draft into the Coil and freeze it.

Placing the Washer on a Largo Stand (raising the unit 24”) will help in providing more oxygen for the burner and protect the machine from water damage should a drain fail.

Placing the machine in a poorly vented area will cause problems. Your machine WILL soot up the coil and become a fire hazard. Sufficient combustion can only be obtained when there is a sufficient supply of oxygen available. If placed in an enclosed room or tight area it is recommended that either an outside air supply is provided or construct an air opening both at the top and the bottom area of the room where the washer is installed. Consult with your Distributor for directions and assistance in your Installation.

DIRECT VENT SYSTEM:

- 1. Minimum Flue size is 8 inches**
- 2. Flue must extend at least 3 feet above the highest point at which the chimney comes in contact with the roof, and not less than 2 feet above the highest roof surface or structure within 10 feet horizontally to the chimney.**
- 3. No other appliance should be attached to the same flue pipe.**

PLEASE REFER TO YOUR SM BECKETT BURNER MANUAL INCLUDED WITH THE LARGO OPERATOR’S MANUAL for additional information on the installation and operation of the SM Oil-Fired Burner used on this machine.

DO NOT REDUCE THE STACK SIZE SMALLER THAN THE MACHINE STACK SIZE.

You may need to install an automatic dampener in a very cold area.

DO NOT install 90 Degree Elbows in the exhaust vent. Avoid long runs. Make sure you clear building eaves with the vent pipe cap a minimum of 3 feet.



STRAIGHT OUT VENTING

THIS IS THE CORRECT WAY TO VENT YOUR PRESSURE WASHER. AN INLINE DAMPENER MAY BE USED TO PREVENT FREEZING OF THE HEATING COIL.

*****Sweating:** Condensation is not unusual during very humid weather for the new coil to accumulate water vapor and appear to be “leaking” while the burner is on. It is not. To verify: 1. Place a pressure gauge on the down side of the unloader valve. Run the machine and cycle the trigger gun. Release the trigger gun and observe the gauge, there should be no pressure drop. Or 2. Place a gauge on the pump head, cycle the trigger gun and release. The pressure on the pump head should read and stay at 0.

SPRAY TIP WARNING: Using the wrong size spray tip will cause the pump to by pass water volume back into the pump reducing water flow into the heating coil and rapidly increase outlet water temperature. Only buy your spray tips from your Local Distributor who will have the correct size for this machine. The Local Store Spray Tips look the same and the Color-Coded Tips only distinguish the spray pattern and not the tip volume size. If using a Rotating Nozzle or Surface Cleaner ensure they are compatible with this machine and have the correct tip size.

REMOVE ANY SPRAY TIPS IN THE AREA OF THIS MACHINE THAT ARE NOT THE CORRECT TIP FOR THIS PRESSURE WASHER.