

**Model Name:** Model C Blaster

**Manufacturer:** LAB Manufacturing, Cincinnati, OH

**Part #** L50HWC

**General:**

This hot compressed air lance shall be a current production model and on the market for no less than 5 years. This unit shall be capable of cleaning out debris and moisture from pavement joints and cracks in preparation of sealant installation. This unit will produce flame free high temperature up to 2600 degrees with exit air velocities of 1000 ft/second. Compressed air requirements supply shall be 150+ cfm (90-175 psi) All bidders must have and maintain a complete inventory of repair parts as well as having service personnel available for this equipment.

**Construction:**

The lance will be constructed of stainless steel and high strength nickel plated steel. All line tubes including the handle shall be constructed of 304 or 316 seamless steel tubing.

**Main Burner Tube:**

The main burner tube shall be constructed of 2.5" O.D. x .065" thick x 12" long 316 seamless stainless steel tubing with 9 stainless cooling rings to act as a cooling medium and minimize burns if contacted.

**Mixer Block:**

The mixer block shall be constructed of high strength steel & nickel plated with measurements of 1.5" x 1.25" x 3" and include a prefabricated ignition system modification for later installation.

**Controls:**

The unit shall be equipped with 2 separate 1/4" ball valves to control air pressure from 75 to 185 psi and control the burner combustion mixture and exit air velocity. For increased air velocity the exit air line shall include a 4" long venturi cylinder constructed of high strength steel and nickel plated. The fuel and compressed air will be mixed only at the point of combustion in an open and unrestricted burner tube. The LP fuel shall be controlled by a needle valve to regulate gas flow. The exit tube will have a 303 stainless orifice attached to the end. The burner shall be designed so that all fuel has completed combustion before exiting the burner tube.

**Wheel Kit:**

The lance will have a removable wheel kit with debris deflector for operator safety. The wheel kit is constructed of 11 gauge steel with a 1/8" expanded metal mesh guard in a square pattern measuring 13 3/4" x 9 3/4" with two thick steel wheels acting as guides & stabilizers. The wheel kit shall attach to the lance by way of welded 2 7/8" O.D. pipe with 2 mounting bolts. The wheel kit shall be of all welded construction.

**Hoses:**

**A: Air**

The lance will come complete with a 3/8" (95mm) U.L. approved rubber composite, industrial nylon reinforced hose with a working pressure of 250 psi and a length of 40, 50, or 60 feet as required by this specification. The neck of the hose shall include a protective sleeve to cover the hose to reduce flexing in the line.

**B: Gas**

The LP Gas hose shall be U.L approved 1/4" LP rated rubber composite, industrial nylon reinforced hose with a working pressure of 350psi and a length of 40,50, or 60 feet as required by this specification. Both the air and gas hose shall be joined and enclosed inside a braided polyester sleeving cover to alleviate abrasion and help reduce wear on the hoses.

**Fuel Requirements:**

The unit shall use vapor propane supplied from a 100 pound bottle at a pressure between 15 & 20 psi. Consumption rate shall be no more than 10 Lbs per hour.

**Package Inclusions:**

- The proposed unit shall come packaged with the following items
- Heat Lance
- Hose Kit with cover (40 50 or 60 foot length)
- LP Gas regulator & gauge
- Air Filter with 1/2" ports
- Chicago tank fitting
- Shoulder Strap
- Manual & Warranty card
- **Available Options:**
- Wheel Kit
- Ignition System
- Grip Handle
- 1/2" Air Hose upgrade

**Approved Equal:**

These specifications are not to be restrictive but are meant to describe the kind and performance of unit desired to be purchased in detail. If a bidder is bidding other equipment than what is specified in the documents and wishes the equipment he proposes to be considered as "equal" he will submit on a separate sheet to the bid item by item description of that which he proposes. Such bidders will include product literature & specifications. Failure to do the above may be deemed sufficient reason to reject the bidder's proposal.