

Model Name: LAB Hot Shot  
Manufacturer: LAB Manufacturing, Cincinnati, OH  
Part # L50HS

#### General

***This hot air lance shall be a current production model and on the market for no less than 6 years.*** This unit shall be a LAB Model Hotshot lance 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 hot air up to 2600 degrees with exit air velocities of 1000 ft. /sec.(Specs based on use on 90 cfm compressor) Compressed air supply requirements shall be 60 -100 cfm (50-175 psi). All bidders must have and maintain a complete inventory of repair parts as well as having service personnel available for this equipment. The model shall have no exit flame during use and exhibit flame free production.

#### Construction

The lance will be constructed of stainless steel and high strength nickel plated steel. All line tubes including the handle shall be made 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 ring to act as a medium and minimize burns if contacted.

#### Mixer Block

The mixer block shall be constructed of high strength steel and nickel plated with a measurement 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" Parker brass ball valves to control air pressure from 75 to 185 psi and control the burner combustion mixture and exit air velocity. 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 made 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 steel wheels to act as a guides and stabilizer. The wheel kit shall attach to the lance by way of a welded 2 7/8" O.D. pipe with two mounting bolts. The wheel kit shall be of all welded construction.

#### Hoses

A: Air

the lance shall 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 350 psi 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 sleeve 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 include the following items.

Heat Lance as proposed

Hose kit with cover (40, 50, or 60 foot length)

LP gas regulator & gauge

Air filter with 1/2" ports

Chicago tank fitting

Wheel Kit

Shoulder Strap

Operation Manual

Available options:

Ignition System

Comfort grip handle

1/2" Air Hose upgrade

Approved equal:

These specifications are meant to describe the kind and performance of the 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" it must be a demonstrated equal and will submit on separate sheet to the bid item by item description of what he proposes. Such bidders will include product literature & specifications. Failure to do the above will be deemed sufficient reason to reject the bidders proposal.

Specifications are current as of February 2010