

Ray-Tech Infrared Tech 108

The easy solution to heating and repairing joints and cracks!

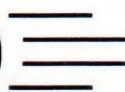
The Tech 108 features a 9'L x 2'8"W infrared heating chamber mounted on the side of a single axle trailer.

The infrared heating chamber is lowered over the asphalt surface and uses infrared light rays to heat the asphalt. Once heated, the asphalt can be raked around and luted.



Infrared repair is more effective than other methods because it does not leave a seam where the repaired surface meets the old surface. This prevents water and dirt from gathering in the joints and ruining the repair.

A heater-only trailer like this pairs perfectly with one of our reclaimer models. That combination gives you the ability to heat the asphalt as well as carry the new material needed for your repairs!



Ray-Tech Infrared Corp.

Manufacturer of Infrared Road Maintenance Equipment

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At Ray-Tech Infrared we take pride in building the most efficient and user-friendly infrared road maintenance equipment available!

Operating Principle

- The infrared is created by premixed gas and air delivered under pressure by the heavy duty 24V blower motor to converters. *Infrared does not flame or alter the binding characteristics of asphalt.*
- The chamber consists of two (2) rows of high efficiency and long-life stainless steel converters.
- Converters consist of a stainless manifold with a Ray-Tech exclusive welded ribbon style orifice covered by a nickel-alloy perforated grid that, when heated, produces infrared light waves.
- **Average chamber temperature: 1875°F**

Chamber Construction

- Vented and reinforced 16 gauge stainless steel 2'8"W x 9'L. Support structure, manifolds and all components are stainless steel.
- Chamber is raised and lowered by a heavy duty worm drive gear reducer and a 24 volt heavy-duty motor. This custom built winch is backed by a 10 year warranty.

Fuel

- 100% Propane gas (vapor withdrawal) is fed from two (2) 100 lb. cylinders (included).

Fuel Delivery

- The chamber is fed propane gas (vapor withdrawal) from two (2) 100 lb. cylinders connected to high pressure gas hose. Pressure is reduced to 11" water column by a 2 stage regulator. Gas passes through a 24V solenoid valve and is controlled by a limiting orifice

valve. High pressure gas hose then connects to the heavy duty 24V long life brushless blower motors.

Maximum Fuel Usage

- Entire chamber consumes approximately 19.7lbs (4.7 gals.) per hour.

Power

- The heavy duty 24V blower motor is powered by four (4) 220 amp 6V batteries wired in series for deep power reserves. This assures rapid high production heating. Built-in 24V on-board battery chargers charge the system when plugged in overnight.

Operating Controls

- The system consists of a pressure switch controlling the solenoid valve.
- Interior safety switches (for all exterior switches), weatherproof master switch and 115V receptacle for charger are all located in or on the lockable battery box.

Mounting

- **Type** – Single axle trailer.
- **Axle** – 2,000 pound round axle.
- **Suspension** – Leaf spring.
- **Wheels** – Steel.
- **Tires** – Two (2) 4.8 x 12, heavy duty.
- **Brakes** – Electric on all wheels with breakaway switch.
- **Fenders** – 3/16" diamond plate.
- **Lights** – 12 volt system. LED running, brake, directional and hazard lights.
- **Jack** – Castor wheel on jack for ease of positioning.
- **Tow Ring** – 1-5/8" steel ring with 3-inch I.D. (Two safety chains included).
- Male 7-Pole RV style truck connector.

Construction

- **Chassis** – 4" x 5.4 channel iron base frame w/ heavy duty nose plate with nine (9) position holes. 4" x 5.4 channel cross members.
- **Tank Holders** – 12 gauge cylinder platform on 3" channel.
- **Battery Box** – 12 gauge box reinforced with 2" angle iron corners and deck.
- **Winch & Chamber Supports** – Reinforced 4" channel winch post. Stranded core stainless steel winch cable for extra-long life. 2" angle iron for securing chamber once raised.

Dimensions

- Length: 13' – 2"
- Width: 7' - 3"
- Height: 7' - 4"
- Weight (without fuel): 1,600 lbs.
- Gross Weight: 2,000 lbs.

Available Options

- 12 Volt Lighting
- Aluminum Wind Guards
- Arrow Stik Safety LED Light Bar

Performance Specification:

Infrared Heating Chamber: The asphalt surface will reach a 220°F minimum temperature at 2" depth, with 400°F maximum temperature at the surface within 6 to 8 minutes.

The Tech 108 was designed for heating joint that run parallel to the roadway. The heating chamber lowers down from the side of the machine and covers up to 30" x 108" of asphalt surface.

Contact us today to learn more!