

Ray-Tech Infrared Tech 36

The perfect machine for utility joints and full road width heating!

The Tech 36 features a 3'4"L x 13'W bi-fold infrared heating chamber mounted on 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 heavy duty 24V blower motors to converters. *Infrared does not flame or alter the binding characteristics of asphalt.*
- Unit has two systems which operate individually and will fire in any position from vertical to horizontal. This lets you run half the total chamber size at a time for smaller jobs.
- Each system consists of five 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 3'4" x 13'. 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 four (4) 100 lb. cylinders (included).

Fuel Delivery

- The chamber is fed propane gas (vapor withdrawal) from four (4) 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 32.8lbs (7.8 gals.) per hour.

Power

- The heavy duty 24V blower motors are 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

- Each 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** – 6,000 pound round axle.
- **Suspension** – Leaf spring.
- **Wheels** – Steel.
- **Tires** – Two (2) 8 x 14.5, 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** – 5" x 3 1/2" x 3/8" 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: 15' – 6"
- Width (traveling): 7' - 4"
- Width (working): 13' - 0"
- Height: 7' - 10"
- Weight (without fuel): 3,000 lbs.
- Gross Weight: 4,000 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 36 gives the user the ability to heat utility type joints that stretch across the roadway up to 13'. This unit is easy to operate and will give you a permanent, long lasting joint.

Contact us today to learn more!