

Ray-Tech Infrared Tech 78

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

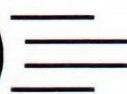
The Tech 78 features a 6'L x 13'W tri-fold infrared heating chamber mounted on plate that will fit on a tractor or skid steer loader.

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.

This unit was designed with utility contractors in mind. Paired with one of our RC16000D or RC20000D models, you can have the ability to heat the asphalt surface as well as carry all the new material needed for your repairs!



Ray-Tech Infrared Corp.

Manufacturer of Infrared Road Maintenance Equipment

www.raytechinfrared.com • 1-800-884-2072

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 three systems which operate individually and will fire in any position from vertical to horizontal. This lets you run part of the chamber at a time instead of running the entire chamber for smaller jobs.
- Each system consists of three 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 6' x 13'. Support structure, manifolds and all components are stainless steel.
- The two side chambers are raised and lowered by heavy duty worm drive gear reducers and 24 volt heavy-duty motors. The custom built winches are backed by a 10 year warranty from Ray-Tech.

Fuel

- 100% Propane gas (vapor withdrawal) is fed from six (6) 60 lb. cylinders (included).

Fuel Delivery

- The chamber is fed propane gas (vapor withdrawal) from six (6) 60 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 54lbs (12.8 gals.) per hour.

Power

- The heavy duty 24V blower motors are operated by a 100 amp, 24 volt alternator system which is powered by an 11.7 HP electric start propane fired motor. This system powers and charges the heavy-duty 24V system of four (4) 220 amp 6V batteries.

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

- **Chamber** – The chamber is designed to attach to the front of any skid steer or front loader tractor by means of a utility plate.
- **Fuel/Power Deck** –The deck attaches to the rear of the tractor and is designed to quickly attach and detach without removing any of the deck components. The

deck holds the six propane cylinders, the 24V battery system and the 24V alternator/motor system.

Dimensions

- Chamber length: 6'
- Chamber length w/ plate: 7' - 3"
- Chamber width: 13'
- Chamber width (traveling): 6' – 5"
- Fuel/Power deck length: 2' - 4"
- Fuel/Power deck width: 3' – 6"
- Weight (chamber): 1,500 lbs.
- Weight (deck/empty): 1,070 lbs.
- Weight (deck/full): 1430 lbs.

Available Options

- *Alternate Chamber: 6'L x 8'W*
- *Aluminum Wind Guards*

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 78 is ideal for large utility jobs. The 13' wide chamber can reach across two lanes of traffic at once and the fact that it is mounted on a tractor means more versatility and ease of positioning on the repair site.

Contact us today to learn more!

