

# Ray-Tech Infrared Combo

## Our largest combination trailer unit!

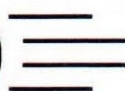
The Combo features a four ton reclaimer and a 6'L x 8'W infrared heating chamber all mounted on a dual axle trailer.

The reclaimer keeps new asphalt warm all day long. It can also be used to heat and reclaim cold asphalt to a workable temperature.



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.



**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!

## 4 TON RECLAIMER

### Heating System

- **Burners** – Four (4) 22,000 BTU Infrared burners located under reclaimer.
- **Fuel** – Propane gas (vapor withdrawal). One (1) 100 lb cylinder and one (1) 60 lb cylinder (both included). Automatic switchover valve.
- **Tank holders** – Heavy duty hinged brackets hold cylinders.
- **Safety Controls** – 100% shutoff gas valve, controlled by electronic ignition module, with a direct spark electrode and flame sensing probe. High-pressure gas hose with reusable fittings, regulator to reduce withdrawal pressure to 11" water column. External emergency shut-off valve.

### Temperature Controls

- Cold material placed in unit will be totally reclaimed in 12 to 14 hours.
- Skin temperature will not exceed 320 degrees while reclaiming.
- Controls will automatically reduce skin temperature to 300 degrees maximum after material has been reclaimed, allowing material to be held for an extended period of time (approximately 48 hours).

### Construction

- **Chassis** – 5"x3½"x¾" angle front boxed, 4"x5.4 channel cross members. Heavy duty nose plate with three (3) position holes.
- **Storage Bin** – Double wall to hold heated air to prevent heat loss from asphalt. 10, 12 and 16 gauge steel double and triple wall throughout.
- **Insulation** – Inside of middle wall coated with 1250 degree aluminum paint to reflect infrared evenly around inner walls. Third wall around complete unit holds 2" rigid insulation.
- **Loading Doors** – manually opened top doors form chute for loading asphalt. 12 and 16 gauge with 2" rigid insulation.
- **Shoveling Doors** – Four (4) doors, two (2) each side of unit with double action linkage, sheer angle base for maximum positive cutoff.

### Mounting

- **Type** – Dual axle trailer.
- **Axle** – 8,000 pounds each.
- **Suspension** – Torflex tandem.
- **Wheels** – Steel, 4,805 lb. rating.
- **Tires** – Four (4) 6.75 x 17.5, range H.
- **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** – Heavy-duty (Nose leveling).
- **Tow Ring** – 1-5/8" steel ring with 3-inch I.D. (Two safety chains included).
- **Male 7-Pole RV style truck connector.**

### Dimensions

- **Length** – 17' -0"
- **Width** – 7' -11"
- **Height** – 9' -0"
- **Weight** – 8,750 lbs.
- **Gross Weight** – 17,310 lbs.

## INFRARED HEATING CHAMBER

### 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 dual systems which operate individually and will fire in any position from vertical to horizontal. This lets you run half the chamber at a time if needed.
- Each system consists of three rows of high efficiency 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 8'x6'. 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.

### Maximum Fuel Usage

- Entire 6' L x 8' W chamber consumes approximately 36 lbs (8.5 gals.) per hour.

### 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.

### Power

- Each 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

- Each system consists of a pressure switch controlling the solenoid valve.
- Interior safety switches (for all exterior switches), weatherproof master switch and 110VAC receptacle for charger are all located in or on the lockable battery box.

### Available Options

- *Compactor Platform w/ Manual Winch*
- *Roller Cradle w/ 24V Winch*
- *Time Delay System*
- *Surge Hydraulic Brakes*
- *12 Volt Lighting (Set Of Four)*
- *Aluminum Wind Guards*
- *Arrow Stik Safety LED Light Bar*
- *Hydraulic Operation*

### Performance Specification:

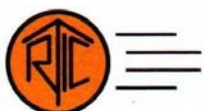
**Infrared Heating Chamber:** The asphalt surface will reach a 220°F minimum temperature at 2" depth, with 400°F maximum temperature at the surface within 6 to 8 minutes.

**Asphalt Reclaimer:** The asphalt will reach a 270°F minimum average temperature after twelve hours of heating time.

**The Combo unit is the larger of our trailer combination units. It combines the ability to transport and reclaim asphalt with the ability to make year-round permanent patches.**

**Having a completely self-contained unit all on one trailer gives the operator the maneuverability and flexibility to carry out virtually any asphalt repair!**

**Contact us today to learn more!**



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198 Springfield Rd. · P.O. Box 1119

Charlestown, NH 03603

Phone 1-800-884-2072 FAX: 1-603-826-3447

[www.raytechinfrared.com](http://www.raytechinfrared.com) info@raytechinfrared.com