

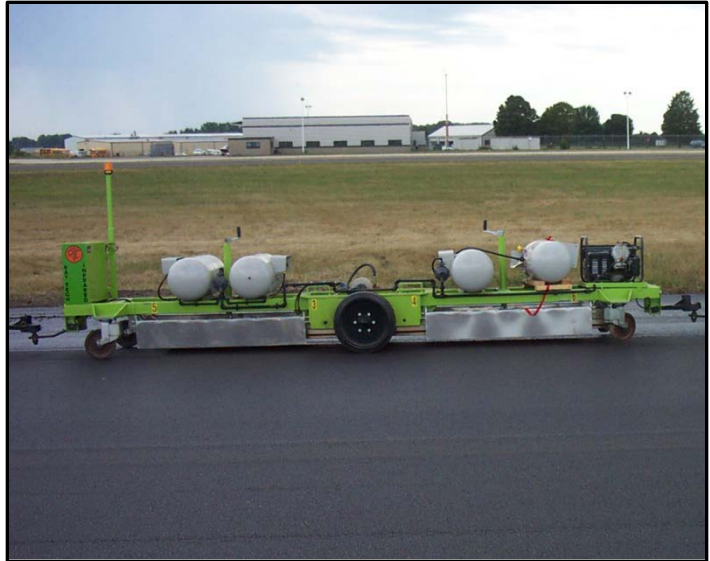
# Ray-Tech Infrared Joint Heater – Preheater

**Eliminate joint failure and  
significantly increase density!**

The Preheater was designed to work with the Paver Mount unit to provide additional heat to cold joints during a paving operation.

This unit features automatic heat controls to allow for deep penetration heating while not burning the asphalt.

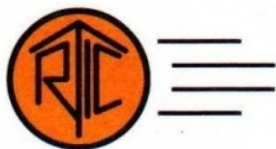
Designed for ease of operation, this machine provides consistently reliable results!



Patent # 6227762



- Towable by roller, tractor, etc.
- Fuel efficient and easy to operate
- Fully automatic temperature controls
- Match or exceed density requirements
- Low maintenance, proven reliability
- Infrared heats evenly without burning
- Create seamless, permanent joints
- Adjustable to any paving speed



**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 asphalt equipment available!**

## EQUIPMENT DESCRIPTION

The Preheater Joint Heater was designed to provide additional infrared heat prior to the paver laying down the next pass.

Longitudinal joints in new paving projects have always been a problem in the industry. They often do not meet density requirements that the local governing body has set and they also often fail due to dirt and water working its way into the seams.

By using a Preheater in conjunction with a Paver Mount, the contractor is able to pave one pass and then heat it prior to making the next pass. This rapidly increases the temperature of the first material put down so that it can come close to or meet the temperature of the next material to be paved. Once compacted, the joint will then compress much easier and the joint will therefore be denser.

The system is designed to be fully automatic to control temperature and avoid overheating and burning. By itself, the Paver Mount is very effective and can be enough to meet or exceed the paving density requirements.

If it is not enough alone, however, this Preheater model can be towed ahead of the paver. Using a Preheater in conjunction with a Paver Mount will give you additional heat and may be enough to make the difference.

## INFRARED HEATER

The infrared is created by premixed gas and air delivered under pressure

by a heavy duty 115 Volt blower motor to converters. *Infrared does not flame or alter the binding characteristics of asphalt.*

The heating system consists of a 15"W x 144"L stainless steel chamber and one row of long-life stainless steel converters.

## FUEL DELIVERY & USAGE

The chamber is fed propane gas (vapor withdrawal only) from four 100 LB horizontal cylinders located on the unit's frame.

Fuel is delivered via high pressure gas hose through a strainer to a regulator where the pressure is then reduced to 11" water column. It then feeds through a solenoid safety valve to a limiting orifice that will determine the amount fed to the motor.

The maximum fuel usage of this unit is approximately 13.1 lbs (3.1 gals.) per hour.

## OPERATING CONTROLS

The operating controls consist of a three way switch with the following options: OFF, AUTOMATIC and MANUAL OVERRIDE. The MANUAL OVERRIDE position allows the unit to run continuously while the AUTOMATIC position keeps the heater on as long as the asphalt temperature stays below the temperature sensing settings.

The heaters incorporate a fail-safe ignition system, which turns off the gas flow to the heater if proper ignition is not detected. An infrared optical sensor insures accurate temperature control with a minimum of maintenance.

## CONVERTERS

The chamber is fitted with four 36" converters that are constructed of

16-gauge stainless steel for long production life. The nickel alloy grids that produce the infrared rays are located in the center of the converters. These rays are directed to the pavement through the use of stainless steel reflectors.

## ATTACHMENT

The Preheater is mounted on its own towable trailer frame featuring two swivel caster wheels on each end and two large center wheels for ideal tracking when towing in a train configuration. One end of the frame has a trailer ball and one end has a receiver hitch to accommodate another preheater.

## HEIGHT ADJUSTMENT

The height is very easily adjusted by raising or lowering the manual jacks to the desired position.

## POWER REQUIREMENTS

This unit features a 115V generator mounted on one end of the frame to power the blower motor.

## DIMENSIONS

- Length: 18' - 6"
- Width (Wheels): 44"
- Width (Frame): 26"
- Height: 39"
- Weight (Empty): 2,000 lbs
- Weight (Fueled): 2,400 lbs

**The use of a Preheater, along with a Paver Mount, could improve virtually any job by increasing joint density and eliminating joint failure.**

**This system is ideal for matching or exceeding density requirements on specific projects and could mean the difference between paying penalties and receiving bonuses!**

**Contact us today to learn more!**