



**THE LEADER IN HALOGEN TECHNOLOGY
FOR INDUSTRY AND THE CONSUMER**

INDUSTRIAL SOLUTIONS

Prime Heat continues to be the world leader in halogen curing systems. We have engineered and installed our systems across the globe in the Aerospace, Automotive, Golf, Metal, Powder Coating and Wood Working industries.



Each system is designed to your specific requirements and will provide you with dramatic savings in higher production rates and smaller floor space requirements.



With our new **PowerCart** conveyor system, we will automate your facility to produce more, at a higher quality level in less space. Let us help you increase your profits and competitiveness.



Halogen Flatline Tunnels

The size, length and system design is based on your conveyor size and speed and the coating material you are using. Our Tunnels are activated by a timed motion sensor and have a conveyor override that shuts the system OFF if your line stops. Heat is precisely controlled with the use of digital thermostats and IR sensors that hold part temperature to plus or minus 2 degrees F. This precise heat regulation and the use of high volume blowers circulating internal air over the product result in the fast cure times our systems achieve.



Flatline system for curing plastic TV cabinets



18 foot wide transfer conveyor tunnel for molding.

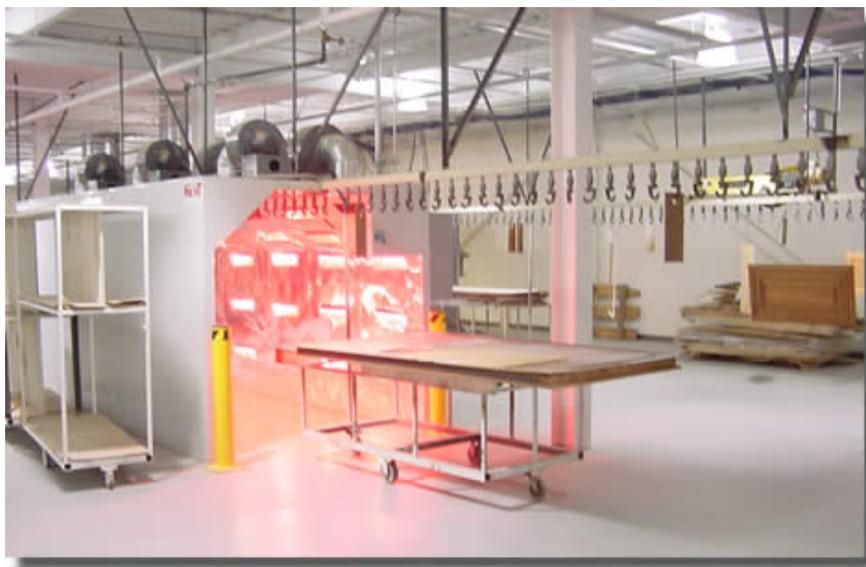


Halogen Hangline Tunnels

The size, length and system design is based on your overhead conveyor height, speed, part size and the coating material you are using. Our Tunnels are activated by a timed motion sensor and have a conveyor override that shuts the system OFF if your line stops. Heat is precisely controlled with the use of digital thermostats and IR sensors that hold part temperature to plus or minus 2 degrees F. This precise heat regulation and the use of high volume blowers circulating internal air over the product result in the fast cure times our systems achieve.



Thirty foot Hangline Tunnel



Hangline and cart combination tunnel.



Halogen Towline Tunnels

The size, length and system design is based on your cart speed, part size and the coating material you are using. Our Tunnels are activated by a timed motion sensor and have a conveyor override that shuts the system OFF if your line stops. Heat is precisely controlled with the use of digital thermostats and IR sensors that hold part temperature to plus or minus 2 degrees F. This precise heat regulation and the use of high volume blowers circulating internal air over the product result in the fast cure times our systems achieve.



Twenty one foot Towline Tunnel with nine foot flash tunnel.



Our Towline tunnels are unique in that the tow cart enters in a close pack configuration and then rotate inside the tunnel and exit in a straight line. This allows for the product to be cured from all sides and reduces tunnel length requirements.



Halogen Batch Tunnels

The size, length and system design is based on your part size and the coating material you are using. Our Tunnels are controlled by a digital repeat timer. Heat is precisely controlled with the use of digital thermostats and IR sensors that hold part temperature to plus or minus 2 degrees F. This precise heat regulation and the use of high volume blowers circulating internal air over the product result in the fast cure times our systems achieve. A two stage heat flash off lets you place your product immediately into the oven to start the controlled cure process.



Thirty foot Batch oven.



Eighteen foot Batch oven.



PowerCart Conveyor System

The **PowerCart** offers flexibility, performance and value unequalled by any other system. This system uses self propelled carts traveling along a 1/2" high floor track that enables easy access into your finishing area. Each PowerCart is independent, allowing it to easily roll over and be removed off the track so you can add and remove carts from the line at your convenience. You can stop a PowerCart at anytime and the second it touches anything, it immediately comes to a gentle stop. Attached to the track are Line Stops that activate a time delay switch inside the PowerCart. This adjustable time delay can be set from seconds to minutes. The Line Stops are easily attached to the track and placed at any point where you wish the PowerCart to stop. Each PowerCart has Stop Bars on the sides of the rotating platform that depress when another cart pushes against them and stops the PowerCart immediately. Once the Stop Bar is released, the PowerCart will wait until the time delay period is over and then proceed. An operator can stop a PowerCart at anytime by simply pushing the Stop Bar. When removing a PowerCart from the line, lift the drive wheel handle and roll the PowerCart over the track and thru your facility. At the end of the day or during breaks, the operator deactivates the PowerCart by pushing it's ON/OFF switch and all other carts will stop and deactivate in line behind it. The PowerCart track is easily installed and easy to lengthen. A complete system can be installed in one day at very little cost and you can reconfigure your finishing system at anytime. Click below to see a schematic of a typical PowerCart installation.





Halogen Portables & Retrofit Systems

Prime Heat has a variety of portable systems with our most popular being the PH1. This six foot long system operates much like our tunnels especially if you use two units facing each other. Power requirements are 220v or 440v 3 phase.



Portable systems used to create a tunnel.



We can convert your existing gas or old electric oven into a state of the art Halogen tunnel with the use of our Halogen heat bars. These Halogen heat bars can be built to any length and are fast and easy to install.

Halogen Short Wave Heating Elements

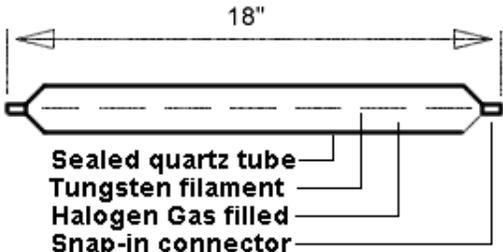


Prime Heat's Halogen elements have a life expectancy of over 6,000 hours. They use snap-in mount ceramic connections for fast and easy service. The parabolic reflector that they mount in also snaps over the ceramic connectors and can be removed for cleaning or replacement.

The Halogen element reaches full operating temperature of 4,040 degrees in one second. This creates an immediate transfer of infrared energy to the object being cured. The Halogen element will convert 95% of the electrical energy into short wave infrared with a wave length of 1.12 microns which will penetrate deeper and faster into the finish material to cure from the inside out. This fast energy transfer is why most water borne materials have a cure time of less than 3 minutes using our Halogen.

Each Halogen reflector is 18" long and made of anodized aluminum which is 92% reflective and will never rust or corrode.

Prime Heat's standard Halogen element is rated at 1800 watts at 220v. The color temperature is 2,500 Kelvin which is bright white light. This is the same color as lights used for reading or floodlights except our elements operate in the heat spectrum. There is no danger or health risks by looking at the light. Prime Heat has a red quartz sleeve that can be placed over the Halogen element to reduce the brightness should the brightness pose a problem. Most of our customers prefer to have the white light so they can inspect the product entering the tunnel for imperfections.



18"

Operating temperature: 4,040 degrees F.
Wave Length: 1.12 microns
Life expectancy: 6,000 hours = 3 to 4 years

Sealed quartz tube
Tungsten filament
Halogen Gas filled
Snap-in connector

Halogen Element Specification

To compare Halogen short wave to Quartz infrared, you will find the Halogen 4 times faster as shown below.

Operating temperatures: Prime Heat Halogen is 4,040 degrees F. Quartz infrared is 1,493 degrees F. which is a 2,547 degree difference.

Wave Length: Prime Heat Halogen is 1.12 microns. Quartz infrared is 2.7 microns which is in the medium wave spectrum.

On a heat comparison at 20 inches from the surface on 20 gauge sheet metal panel the following results occurred:

	Halogen	Quartz
Starting temperature:	73	73
1 minute	140	77
4 minutes	240	109
Heat Rise	167	36

Result: Halogen was 4 1/2 times faster to raise the surface temperature.



Contact / Privacy Statement

CONTACT INFORMATION

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SECURITY AND PRIVACY

When you order from Prime Heat Systems, your personal information is encrypted by your browser and sent to us in a secure manner. No one can intercept this information. Once it is on our server it is then transmitted to our Order Center in an encrypted mode. Again no one can intercept this information. No credit card information is allowed to remain on our server. *Geotrust* provides our encryption services.

Our server will place a cookie when you enter our secure shopping cart. This cookie is used only to match you to your shopping cart. When placing an order only information necessary to process and ship your order will be entered. We are very much aware of your concerns about the privacy of your information. We will never sell, trade or otherwise distribute your personal information.

STORE POLICIES

Shipping:

The cost of shipping for the Halogen Bathroom Heater is a flat \$9.95 per unit when shipped within the US. For International orders please E-mail us at sales@primeheat.biz for a quote.

Customer Service:

Questions regarding an order you placed should be directed by E-mail to sales@primeheat.biz. All inquires will be answered within 48hours. You may also call us at 619-449-6623 Monday through Thursday 10:00am - 5:00pm Pacific time. If items are backordered we will contact you. Orders received prior to 5:00pm will be processed our next business day.

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