

Maywick Gas Fired Curing Tunnel Oven

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Stock No	OS1251
Manufacturer	Maywick
Model	IND90-5040-B1/MOD
Year of Manufacture	1990
Internal Size (WxDxH mm)	1750 x 500 x 1400mm
Max Temp	250°C
Other Info	Compact overhead conveyor track oven
External Dimensions (WxDxH mm)	6200 x 1150 x 2500mm

Description

The Maywick gas fired infra red tunnel oven was primarily designed for the curing of spray painted parts in a continuous mode.

The Maywick gas fired infra red tunnel has a working envelope of 1400MM high with a maximum width of 500 mm,

the comprehensive control panel includes temperature control and an inbuilt variable speed conveyor drive unit.

The radiant panels, are arranged in three vertical zones and four horizontally, and can be switched individually making this a very versatile plant to operate with different sized work pieces.

The upper and lower sections have a tilt facility to allow the heat to be directed around the product enveloping it, especially when the product has a bulbous cross section.

Maywick Infrared tunnel oven

The Maywick tunnel oven is supplied with a Chain conveyor looped track fitted with tension unit and drive unit

OVERVIEW

The system implements short wave infrared heating for high radiant heating efficiency and controlability.

This industrial tunnel oven would be perfectly suited as a cure oven, powder coat oven, preheating oven, annealing oven, heat treat oven, or industrial drying oven.

The designed of the tunnel oven offers the following characteristics:

- The layout and distribution of the 3 banks of elements, with the top and bottom banks able to be angled allows for the incorporation of shape factors, and overcoming any edge effect, providing greater flexibility.
- Insulated reflective panels to reradiate the heat: To provide reradiation, even when panels may be dirty.
- Long life gas radiant panels.
- Non-contact temperature controllers for accurate control.
- Rigid, non-vibrating structure.

Radiation Heating

Is attained by heating the source so that the source starts emitting infra-red radiation and this radiation heats up the surface. The infra-red emission can be directed towards the object to be heated by means of the suitably shaped reflectors. The absorption of the radiation takes place at the surface of the charge, and infra-red heating is thus essentially a surface heating process.

Since infra-red radiation is emitted in straight lines from the source or reflector, plain surfaces are most readily treated. In infra-red paint stoving, the temperature attained on the surface depends upon the intensity of radiation, the time of exposure, and the mass of the article. The colour of the surface or coatings also plays a part in the speed with which the surface is heated. Black tend to absorb more heat, whereas a glossy bright surface requires a longer time of exposure.

On this system with both the heat power and speed control of the oven, the surface temperature and expose times can be adjusted to achieved the required treatments.

DIMENSIONS

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Machine Datasheet



Heated Chamber W x D x H 1750 x 500 x 1400mm
Chain hanger pitch 150mm
Hanger drop height (load) 1500mm
Overall dimensions W x D x H 6200 x 1150 x 2500mm

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.