



Infrared boosters speed up the drying of coatings

Upstream infrared modules save time and space

All coatings are different, but all coatings need to be dried as quickly as possible, with good surface quality. Increased product demand often leads to production bottlenecks, while competitive pressures can force companies to reduce energy costs and shorten production times. As a result, the capacity of existing dryers may no longer be sufficient. If the drying section stays at the same length, then the line speed through the dryer must be reduced.

It is not always possible, because of space restrictions, to extend the drying section and unwanted bottlenecks may arise.

Infrared booster - a retrofit that pays off

An infrared booster solves this problem. It is an infrared module, which is connected to an existing dryer. The product is brought to the right temperature by means of this upstream infrared module and the existing dryer keeps it at this temperature as long as it is necessary. Practice shows that by retrofitting an infrared booster, the previous hot air system can be used as a cooling zone.

- **time savings through quicker heating**
- **space savings through shorter drying**
- **energy savings through fast reaction times**



Infrared boosters improve drying process

Infrared emitters have very short reaction times. Short wave and carbon emitters from Excelitas Noblelight switch on and off within one to three seconds. This makes heat, and temperature, controllable and helps to avoid overheating of materials.

As a result, ovens can accommodate rapid change-over of different coating types, having different baking temperatures. Furthermore, significant energy savings are possible as heating is carried out only when required.

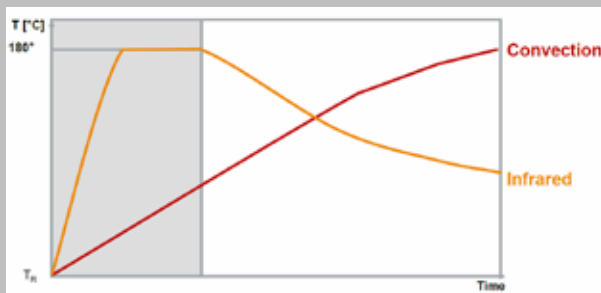
Electric infrared boosters are used in different combinations:

- Infrared modules in front of a hot air oven
- Combinations of electrical infrared and hot air oven

Common to all these is the increase of efficiency of drying processes, such as

- Water-based lacquers on plastic bumpers
- Powder coating on metal cylinders
- Powder coating on engine blocks

Contact us!



Infrared emitters reach the desired temperature much more quickly than hot air.

Infrared radiation saves time and space

Convection ovens transmit heat through the medium of air, which must be heated first. To control the oven temperature, the temperature of the entire air in the oven must be changed.

Infrared systems transmit heat without a contact medium, with the help of electromagnetic waves that generate the heat in the material. Particularly in the case of massive products, the use of infrared heat can save up to 50% of the time required for a conventional hot air oven to reach the baking temperature.

Excelitas Noblelight

Infrared Process Technology
 hng-infrared@excelitas.com
 www.noblelight.com