

Infrared Booster speeds up manufacture of metal housings

A Belgian company manufactures metal compressors for small cooler units and these are coated with a powder lacquer during the course of their manufacture. To ensure that the coating process did not continue to restrict manufacture, modifications were carried out to the existing dryer.

First of all, the existing long wave infrared emitters which had previously been used to cure the powder lacquer were replaced with medium wave twin tube emitters from Heraeus. In addition, a so-called infrared booster with high power, short wave emitters was fitted in the line in front of the oven.

The infrared booster brings the product quickly to the correct temperature and the existing dryer then holds this temperature for as long as necessary.

Consequently, the curing process can take place at a higher temperature and this speeds up the production throughput from 0.8 to 1.2 meter per minute. In addition, the new emitters ensure a uniform heat distribution so that any cold spots are eliminated.

Infrared thermal technology can significantly accelerate the melting of powder coatings. Powder absorbs infrared radiation very well and the powder heats up very quickly. Compared with conventional heating methods, such as warm air circulating ovens, powder gelling is speeded up considerably.



Features

- uniform heat distribution in the oven
- additional preheating speeds up gelling
- fast gelling improves quality of coating

Technical Data

- IR Booster in front of the oven with short wave emitters
- Curing with medium wave emitters
- Increase of production throughput from 0.8 to 1.2 meter per minute

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