

Industrial Ovens – What They Do

Just about every person is familiar with the normal cooking ovens that are in almost every home in America, but few know what an industrial oven is and what they actually do. Industrial ovens are actually heated chambers that are used for a wide range of different industrial applications, such as baking components. These ovens can be used for both large and small operations, batches that come in continuously on a conveyor belt, or for a wide variety of temperature ranges and sizes of materials. These ovens are used for so many different applications, such as food production, chemical processing, and even for creating circuit boards for electronic components.

There are several different types of industrial ovens that are commonly used in different industries today. Some of the most common types of industrial ovens include these.

Curing ovens – These are industrial ovens that are designed to cause a chemical reaction in a specific substance once a certain temperature is reached. Power coating is one of the most common uses for an industrial curing oven.

Drying ovens – These are industrial ovens that are designed and built to remove moisture, and are also known as kilns. These types of industrial drying ovens are usually used in ceramic kilns for pre-treating and painting.

Baking ovens – Industrial baking ovens are usually a combination of both the curing and drying ovens.

Batch ovens – These industrial ovens are also known as cabinet or walk-in ovens. These are large ovens that allow for curing, drying, or baking in small batches by using a wheeled rack, cart, or truck. These are usually found in large bakeries.

Conveyor or continuous ovens – These industrial ovens are usually part of an automatic processing line. By using a conveyor or continuous oven in an assembly line, any industry can process higher volumes of materials or goods.

Clean room ovens – These industrial ovens are designed for industries that require a clean room, like a semiconductor manufacturing or biotechnology.

With all the different types of industrial ovens that are used in manufacturing today, the need to continually improve on the design and manufacturing of these ovens is a goal that few companies strive to reach. There are a few companies out there that are devoted to helping create the very best industrial ovens on the market, such as Epcon Industrial Systems. But, the few companies who are striving to create the top of the line industrial ovens are continually making improvements on the design and components that go into creating high quality ovens for today's manufacturing industry.

About the Author

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