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Manifestation and different uses of Laboratory drying ovens by Sonia Nathani

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Laboratory drying ovens are used in several applications in a laboratory. These are used in laboratories to give unusual thermal applications which are used for wide-ranging lab work and processing. Apart from their use in laboratory they are even used for industrial purposes such as in pharmaceuticals, electronics and metal processing. These equipments come in various sizes such as small, medium and large and are basically used for drying sample products, glass ware or in several heat treatments like annealing, for polymerizing products, evaporation and sterilization

Construction

These equipments are double walled convection items. The outer wall of these items is made up of thick PRPC sheet on which rust proofing is done and is also painted and coated with enamel that is long lasting. The inner wall of the chamber is made of a heavy stainless steel of ss-304 grade. Between the outer and inner wall, there is a gap that is filled with high grade mineral wall, and this filling is done to ensure maximum thermal efficiency in a laboratory oven. The entire unit is provided with the wheels to ensure that the unit can move easily in a laboratory. Apart from the wheels, the unit is placed on a steel frame and it also consists of two or three shelves.

Salient features

Laboratory Drying Ovens are energy efficient, user friendly, have a long life, and are low on maintenance. As stated above, it has an aluminum interior and is supplied with 230v units combined with a European plug.

The most important thing in a laboratory oven is the temperature range. Now what is temperature range? Temperature range is regarded as the highest temperature for a laboratory oven to function and keep delivering its performance. Apart from temperature range, another significant concern that is used to identify definite ovens is pressure range. Laboratory ovens even consist of two important conditions. These conditions are heating and control. Controls can be of programmable or single set point configuration. In a programmable laboratory oven, temperature can be set at different intervals of time whereas in single set point oven there is a specific point of temperature that it should reach, once it is activated. Next is the heat source, which can come in different types such as combustion, contact, indirect, infra red, induction, microwave, propane and oil. Another important specification rather than the above mentioned is atmosphere. There can be numerous types of atmospheres such as air, salt bath and reducing. Features such as explosion proof construction, logging options, cooling systems and shelving are other common characteristics that laboratory ovens comprise of.

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Rodsi Bhatia is the author of this article. She writes article for business products and manufacturing units. She has good knowledge for these type of lab equipments such as a Bench top ovens, a High low temperature chamber etc.

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