



Electric Oven Lab Scale

Dry Chain Equipment

Drying Beads® are desiccants that absorb exclusively water molecules in a very fast and strong way. They can absorb up to 30% of their weight and are perfectly reusable.

The easiest method for reactivating the Drying Beads® is through a simple electric oven (household/pizza oven) that could hold 5-10 kg at one time. A minimal temperature of 250°C (optimal would be 300°C) should be reached.



The container should be flat 3-5 cm beads layer is optimal) and should be equipped with a cover (after reactivated). This cover would enable the cooling of the reactivated beads in an open environment without significant re-absorption of moisture. Due to the long pre-heating period for an oven, it is definitely more economical to run subsequent batches one after the other (this would reduce the pre-heating time and costs), but then more containers would be needed.

It is evident that it is very important that the beads must be quickly protected from re-absorbing moisture from the air, and leaving the beads cooling off inside the oven is not desirable. Much of the moisture would be still available in the air and cooling the air would increase the air humidity (as cooler air can contain less water). The beads would then quickly reabsorb this humidity and reduce the efficiency of your reactivation.



Features

- Stainless steel electric oven
- Easy in operation
- Double constant temperature control
- Swift heating
- Good thermal retardation
- Low energy consumption
- The best quality/price ratio

Item	Specification
Power Supply	AC 220 V, 50 Hz
Batch Quantity	5-10 kg. for regeneration of the Drying Beads®
Max. Cap/Hour	Only manual
Chamber Size (mm.)	620 x 520 x 200 mm.
Dimension (mm.)	866 x 630 x 440 mm.
Total Weight (kg.)	55 kg.
Temperature Range (°C)	50-300 °C



*not include stainless tray in the package

How to regenerate the Drying beads®

- Constant heating at 250-300 °C is required to regenerate the beads for reuse.
- During regenerating the beads, take out the tray cover. The containers should be flat (3-5 cm beads layer is optimal).
- After heating for 3-4 hours, the beads should be cooled in a metal container with a cover (without significant re-absorption of moisture) until they can be safely handled, then stored in a moisture-proof container such as glass jar or metal drum at ambient room temperature.

For further questions, please do not hesitate to contact us

Rhino

5/39-40 Phaholyothin Road Soi 73, Sanarmbin,
Don Mueng 10210 Bangkok, Thailand
Office: +66(0)2-531-2570
Email: info@rhino-research.com

www.rhino-research.com
www.dryingbeads.org

