

Thermal Dryer

TD-Series



Application:

The material is conveyed through a circular tube arrangement. This design is for low volume throughputs. The Product stream is sucked together with the hot air into the blower. Passing the blower, the product is turbulent contact with the hot air, and blown through a circle shaped drying section of about 30 meters in length to create the necessary dwell time to allow the hot air to absorb the humidity. In this section a thermal sensor has been installed constantly measuring the temperature. The temperature is being displayed in the electric panel. (If heating registers are being used, the actual temperature is compared with the pre-adjusted temperature and corrected if necessary. This is achieved by switching heating elements in the heating register on or off). Depending on the desired residual moisture and the kind of material, the temperature measured should range between 400C and 800C. A pressure control device constantly checks if there is any airflow. In case of a material jam this pressure control device would react and switch off the warm air supply. After the drying section the material goes into the separation cyclone which again separates material from the warm moist air. To create the necessary temperature we do offer several alternatives: • electrical heating with heating registers • gas burner (recommended for minimizing the operational costs) • steam.

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