

# The Introduction of Our Latest Computer Controlled RF Conveyorized Drying Technology

## Thermex Model TR120A

Market demand has once again provided the genesis for a new generation of computer-controlled and conveyorized RF drying systems.

The Thermex Model TR120A, shown herein, can produce sustained power output levels of 120kW to a suitable dielectric load in a stable high-voltage, high-frequency environment.

You can take your specific dielectric drying need and introduce the environment necessary to provide the desired heat, and heating rate, all under the watchful eye of a PLC programmed for real time response.

In order to manage the moisture released during the process, and at the same time enhance the efficiency of the drying process while protecting product surfaces, the synergy of hot air convection is provided, with the inclusion of continuously adjustable, humidified air.

A complete set of controls and indicators is provided to allow selectable manual/remote or automatic control. Complete flexibility is the cornerstone of a Thermex design.



Thermex Model TR120A RF Drying System

### Features:

Using the latest in Allen-Bradley PLC technology, along with a PanelView 600 Touch Screen, the system is capable of:

- ✓ Fifty different recipes for automatic process control;
- ✓ Self-diagnostic and calibration functions; and
- ✓ Ethernet data acquisition with both real-time and historical reporting.

**Thermex Thermatron, LP**  
"High Frequency at Its Best"

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## Features:

The system is also provided with the necessary features to:

- ✓ Continuously transport your product during the heating process.
- ✓ Separate and remove the unwanted moisture.
- ✓ Report quality-oriented results over time periods that you select.

This is all done while providing for the uniform introduction of heat, or product profiling whichever your product and your process require.

To address ease of access for the purpose of installation, process inspection, and maintenance or cleaning . . . Both the applicator and generator are provided with large, hinged access doors with redundant interlocks. Redundancy provides an additional layer of operator protection should they be accidentally opened during operation.

## Specifications:

<b>Generator</b>	
Power output (Adjustable):	Maximum 120kW Continuous Duty
Input Voltage (1):	480/380 VAC, 50/60 Hz, 3-Phase, 240KVA
Operating Frequency:	27 MHz Nominal
Power Control Range:	Continuous from 5 to 120kW
Arc Detection:	Photoelectric for system and products
Cooling:	Components – water; System – air or water
Controls:	115 VAC
<b>Dryer/Applicator</b>	
Active Heating Area:	16 feet by 6 feet
Electrode Height Adjustment:	3-12 inches
Belt Width:	48 inches
Belt Speed:	Adjustable from 0.2 to 1.0 feet per minute
Applicator Length:	30 feet (includes attenuation and load)
Applicator Width:	6 feet 6 inches
<b>Hot Air Convection System</b>	
Input Power:	480/380 VAC, 50/60 Hz, 70 KVA
Total Circulating Air:	5000 CFM
Humidity Adjust:	20 to 100 percent
Environmental Monitors:	Pressure Sensor and Thermocouple

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