

CONVEYORIZED MODULAR INDUSTRIAL MICROWAVE POWER SYSTEM

Thermex Thermatron's Conveyorized Modular Industrial Microwave Systems are built in a large variety of shapes and sizes according to the requirements of the continuous heating process. Each module can apply up to 100kW of power to the product being heated and operates at 915 MHz. Based on the power requirements, two or more modules can be installed on the same conveyor. To assure uniform heat distribution in a large variety of load configurations, multi-mode cavity is provided with a Waveguide Splitter with dual microwave feed points and Mode Stirrers.

The product being heated is carried through the oven by a unique conveyor belt. The belt material and configuration are selected based on the nature of the product being heated. Each end of the conveyor is provided with a special vestibule to suppress any microwave energy leakage. Air intake and exhaust ports are provided for circulating air to be used in cases where vapors or fumes are developed during the heating process.



Model Pictured: 100kW Module

Features:

- An **Allen Bradley SCL 504 PLC with Allen Bradley HMI** provides automatic operation
- Programmable to operate at maximum efficiency
- Recording and storage of up to 32 Operating Parameter recipes
- Auxiliary Hot Air System uses electric heat to preheat the air circulating throughout the cavities
- On screen diagnostics, help screens and alarm messaging to assist with troubleshooting
- Designed for ease of inspection, installation and maintenance

Common Uses: Drying or curing

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STANDARD ACCESSORIES:

On screen calibration of all analog signals include:

- reflected power
- filament current
- anode current
- magnet current
- anode voltage
- output power

A Control Box is provided with each Microwave Continuous Oven with the following functions:

- Applicator READY Light
- Generator READY Light
- START and STOP Conveyor
- START and STOP Heat Button
- Output Power Control
- Conveyor Speed Control
- Heat ON Light
- Emergency STOP Button
- Microwave Output Power Meter

SPECIFICATIONS:

APPLICATIONS INCLUDE:

- Ceramics
- Catalysts
- Vulcanizing
- Composites
- Bulk Fibrous Components
- Sand cores
- Drying and heating of electrically non-conductive materials
- Research & development

Model Number	TMC75	TMC100
Power Output (Adjustable)	75kW	100kW
Cavity Material	Aluminum or Stainless Steel	Aluminum or Stainless Steel
Oven Door Opening	39" Wide x 27" High per Module	39" Wide x 27" High per Module
Belt Width	Up to 60"	Up to 60"
Applicator Dimensions	52" High 72" Long 66" Wide	52" High 72" Long 66" Wide

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