

# THERMEX THERMATRON®

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## INDUSTRIAL MICROWAVE POWER GENERATOR

The **Thermex** Industrial Microwave Power Generator is a completely self contained microwave source used for industrial heating processes. Designed to be rugged and dependable. Built to the high **Thermex** quality standards.

The continuous output power ranges from 10kW to 100kW and controlled by varying the magnetic field around the magnetron using an electromagnet. This provides continuous and steady control of the output power manually or automatically by a front mounted **Allen Bradley PLC with HMI** .



**Model Pictured: TM100P**

### **Features:**

- Programmable to operate at maximum efficiency
- Photoelectric Arc detection to protect the magnetron and wave guides
- Recording and storage of up to 32 Operating Parameter recipes
- Three port circulator with water load designed to protect the magnetron during high-reflected power periods
- Major components cooled with plant water
- NEMA 12 type cabinet enclosure measuring approximately 48" deep x 72" wide x 78" high
- On screen diagnostics, help screens and alarm messaging to assist with troubleshooting
- Designed for ease of inspection, installation and maintenance

**Common Uses:** Drying, curing, tempering and baking

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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

Interlocks include: High Reflected Power, Water Level, Cabinet Air Temperature

Indicator Lamps include: Generator Ready, Arc Detected, Microwave “ON”

Push Buttons and Switches: Start-up, Shut down, Start Heat, Stop Heat, Arc Reset, E-Stop

Panel Meters: Output Power, Filament Hour

## SPECIFICATIONS:

### APPLICATIONS INCLUDE:

- Ceramics
- Catalysts
- Vulcanizing
- Composites
- Bulk fibrous components
- Sand cores
- General drying & heating of electrically non-conductive materials
- Research & development

Model Number	TM10P	TM15P	TM20P	TM75P	TM100P
Power Output (Adjustable)	10kW	15kW	20kW	75kW	100kW
Frequency	2450 MHz	2450 MHz	2450 MHz	915 MHz	915 MHz
Phases	3	3	3	3	3
Weight	2500 lbs	2500 lbs	2500 lbs	5500 lbs	6000 lbs

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