LABORATORY/PILOT MICROWAVE SYSTEM

The **Thermex** Laboratory/Pilot Microwave System is designed to bridge the gap between small bench top ovens and production systems. The system is a complete self-contained microwave source used for industrial, laboratory and pilot heating processes.

Thermex Engineers have designed the MW System to allow the researcher to test larger samples under controlled conditions and develop a database of information. The ability to establish consistent and reproducible test data provides the confidence that is important for establishing the groundwork for a successful manufacturing process.

The unique features of this system coupled with the PLC controls yield the ultimate in material testing, data acquisition, trending and process development.

Model Pictured: 100 kW Microwave System with PLC Controls

Features:

- **Allen Bradley PLC**
- Continuous power output from 6kW to 100kW
- Ethernet connectivity
- All major components are water cooled
- NEMA 12 type enclosed generator cabinet
- Meters: output power, filament hours
- Interlocks: high reflected power, water flow, air flow, cabinet air temperature
- Indicator Lights: system on, generator ready, applicator ready, filament ready, arc detection, microwave on

Common Uses:

Laboratory Research & Development

Let Us Build One For You

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OPTIONAL ACCESSORIES:

An optional load cell is available that when incorporated into the turntable and programmed, the microwave power will turn off at a predetermined weight.

Also available is an IR Pyrometer to monitor sample temperature and / or shut off the microwave power at a predetermined temperature.

Additional options include:

- PLC and Control Upgrades
- Applicator Light
- Exhaust Fan
- Fire Suppression System
- Power Density Control
- Stainless Steel

APPLICATIONS INCLUDE:

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

SPECIFICATIONS:

Model Number	TM6BP	TM15BP	TM75BP	TM100BP
Power Output (Adjustable)	6kW	15kW	75kW	100kW
Phases	3	3	3	3
Frequency	2450MHz	2450MHz	915MHz	915MHz
Generator Dimensions	64” High 18” Deep 36” Wide	76” High 24” Deep 62” Wide	78” High 48” Deep 72” Wide	78” High 48” Deep 72” Wide
Applicator Dimensions	38” High 48” Deep 48” Wide	38” High 48” Deep 48” Wide	60” High 72” Deep 72” Wide	60” High 72” Deep 72” Wide
Optional Turntable	36”	36”	42”	42”

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