Technical Data Sheet
Microwave Cooking ~ Continuous Cooking System Series MIC

The MIC system has a range of potential uses for food and non-food, pre or post heating when it is necessary to heat the core and the surface of a material without over heating or cooking of the surfaces.

Microwave Cooking System
The continuous microwave cooking system has been developed using many years of design and manufacturing experience by a team of dedicated engineers. Each industrial microwave system is designed with you to give the best results for your particular application. The microwave cooking system integrates with pre-cooking process equipment, cooling and packing lines.

OPTIONS INCLUDE:
- Fat removal and collection system
- High pressure belt wash assembly
- High velocity blower with air knife
- Oven cavity exhaust system

Continuous Tunnels:
Single or multiple tunnel applicators served by a single or multiple of microwave generators / transmitters, 90 or 120 cm width belt, 896 or 915 MHz.

Standard Specifications Include:
- High pressure carbon dioxide fire suppression system to comply with the latest IEC regulation IEC 60519-6
- Stainless steel construction with pin-choke attenuation tunnels.
- Rotary antenna boomerang feed top only, 2 ports/applicator.
- Full PLC touchscreen control panel with Ethernet connection.
- Single belt with easy-lift top belt system.
- Extract ports for vapour extraction.
- Belt wash system for top and bottom belt conveyors with air blow-off system connected to local water supply.
- 3.6m standard infeed conveyor.
- 3.6m standard outfeed conveyor.

Options:
- Vision image monitoring, automatically adjusts power setting depending on input load.

All machines are subject to continuous improvement
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Continuous Cooking Tunnel System Configurations:

90 cm belt width
MIC-1.36.9.75 Single oven applicator, length 3.6m, 75 kW power input
MIC-1.36.9.150 Single oven applicator, length 3.6m, 150 kW power input
Intimdate module with 75kW transmitter or 2 x 75 kW transmitters

120 cm belt width
MIC-1.36.12.75 Double oven applicator, each length 3.6m, 150 kW power input
MIC-1.36.12.150 Double oven applicator, each length 3.6m, 150 kW power input
Intimdate module with 75kW transmitter or 2 x 75 kW transmitters

Oven Controls and Software Package

Systems are delivered complete with the PLC control package for monitoring of the entire process. System software is included for easy system operation and troubleshooting. Housed in IP 54 (Listed NEMA 4 Rated) enclosures with Allen Bradley Compact Logix, Ethernet Based PLC control box assembly or equivalent.

PanelView 1250E Touch screen control panel or equivalent, for complete control of the entire process.

Variable Frequency Drive Control assembly for digital control of the oven conveyor from the operator panel.

Screens for complete oven data with automatic loading and unloading features.

Modem / Ethernet switch assembly for remote access to the entire system for customer required modification or remote troubleshooting of the entire system.

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