

Radio Frequency Post Baking Systems for the Food Industry

Conveyor Dryer SO50MB



Features

- Virtually Eliminates Checking
- Increases line speeds by up to 40-50%
- Moisture control becomes largely independent of colour control
- Improves moisture profiling
- Reduces evaporation of volatile flavourings



- Reduction of energy consumption
- PLC control and Fault Diagnostics incorporated as standard
- Meets all appropriate European (CE) regulations
- Gives increased production without increasing floor space of existing line
- Reduces pollution - no by-products of combustion
- Rapid Installation with minimal disruption to production
- No contamination
- Immediate RF heat - no warm-up time
- Rapid pay-back
- Automatic moisture control
- Improved workplace environment - almost no radiated heat loss

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Technical Specification

SO50MB RF Conveyor Dryer

SO50MB Technical Data	
Operating Frequency	nominally 27.12MHz
RF Power Output	50kW at full load
RF Efficiency	67-72% at full load
Cooling System	Integral Closed Loop Demineralised Water
Primary Water Flow	53 litres/min (11.65 imperial gals/min)
Primary Water Press.	4kg/sq cm (60 PSI)
Primary Water Temp.	10 deg C minimum, 26 deg C maximum
Electrical Supply	50/60Hz, 3 wire,
Power Consumption	115kVA
Operating Voltage	360-600 volts, stability within +/- 5%
Compressed Air	0.043 cu.m/min at 6kg/sq cm
Operational Handing	Right Hand or Left Hand as required
Materials	Oven S/Steel, Generator Al or S/Steel

Standard Specification includes Moeller Switchgear, Mitsubishi FX series PLC and E600 Operator Interface Panel (HMI). Other components can be supplied at additional cost where required (e.g. Allen Bradley, Siemens etc.).

Conveyor includes pneumatic tensioning and tracking systems as standard and can be manufactured from mild steel with a painted finish, or entirely from Stainless Steel according to the requirements of the customer.

The conveyor infeed section can be fitted with a retractable noser to allow product reject if required (optional at extra cost).

SO50MB Dimensional Specifications	
Machine Width	2030mm
Machine Length (Single Zone)	4548mm + conveyor infeed and outfeed
Machine Length (Double Zone)	7688mm + conveyor infeed and outfeed
Machine Height	1890mm + conveyor band height
Conveyor Band Height	typically 800mm to 1300mm

Strayfield Limited has a policy of continued improvement and reserves the right to alter specification at any time without notice.

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Operator Control Panel (HMI)

This system has the capacity to pre-set operating recipes for various products. The most commonly used machine settings are easily entered. The operator can select the required product by the simple push of a button.

Full Fault Diagnostic System

If a fault occurs, the cause of the fault is immediately displayed for the operator to see. The fault display also provides information to the operator on the relevant circuit reference where the fault has occurred and gives a list of check items to help clear the fault.

Built-in Maintenance Reminders

The operator screen automatically displays when maintenance should be undertaken and provides a message to the operator.

