

# Radio Frequency Post Baking Systems for the Food Industry

## Conveyor Dryer SSO85MB



### 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

Strayfield Limited, Ely Road, Theale, Berkshire, England. RG7 4BQ  
Tel: +44 (0)870 428 1086 Fax: +44 (0)870 428 1087  
E-mail: [info@strayfield.co.uk](mailto:info@strayfield.co.uk) Web: <http://www.strayfield.co.uk/>



# Technical Specification

## SSO85MB RF Conveyor Dryer

| SSO85MB Technical Data |  |
|------------------------|--|
| Operating Frequency    | 27.12MHz +/- 0.6%                        |
| RF Power Output        | 85kW at full load                        |
| RF Efficiency          | 67-72% at full load                      |
| Cooling System         | Integral Closed Loop Demineralised Water |
| Primary Water Flow     | 90 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      | 180kVA                                   |
| 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).

| SSO85MB Dimensional Specifications |                                      |
|------------------------------------|--------------------------------------|
| Machine Width                      | 2030mm                               |
| Machine Length (Single Zone)       | 5505mm + conveyor infeed and outfeed |
| Machine Length (Double Zone)       | 9570mm + conveyor infeed and outfeed |
| Machine Height                     | 1890mm + conveyor band height        |
| Conveyor Band Height               | typically 800mm to 1300mm            |

### 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.



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

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