

Menuflex 208v 60Hz FCC Approval

Section 3 Operational Description

The Menuflex (MF120603a) is a combination microwave oven intended for commercial use. The oven is used to either reheat or prime cook food. The oven has two heat sources available; a 3kw resistive heating element located at the rear of the oven cavity, and two magnetrons which launch /produce microwave energy from the top of the cavity.

Energy is evenly distributed in the cavity via a high speed fan whereas microwave energy is circulated by a rotating stirrer antenna located in a sealed roof section of the oven.

A micro-controller facilitates control of the oven and allows for specific microwave powers and cavity temperatures to be set.

Microwave Power

0% - 100% in 5% steps


Cavity Temperature

0°C - 293°C in 1°C steps

Both energy sources can be used in combination. This results in an oven which has the speed of a microwave and yet yields a traditional cooking result.

Microwave leakage is prevented by utilising a fully welded cavity and a door with a intrusive 1/4 way trap system. The door is monitored by a primary and secondary interlock system.

Specification MenuFlex

| <u>Product Group</u> | <u>MenuFlex</u> |
|---|--|
| <u>Fundamental Specification</u> |  |
| Product Variations (voltage) | 208 / 240 |
| Product Variation (freq Hz) | NA / 50 or 60 |
| Microwave Power Output (W) IEC 705 | 1425 |
| Convection Power (W) | 3000 |
| Shelf Positions | 1 (As modified by Garland) |
| Microwave Stirrer | Resonant rotating passive antenna. |
| Magnetrons | 2 |
| Other features | Removable shelf runners- Designed by Merrychef |

| <u>Electrical Supply</u> | |
|---------------------------------|------------------------|
| Voltages (V) | 208 / 240 |
| Frequency (Hz) | 60 |
| Power (kW) | 6.2 |
| Service Type | 3PH + GND (US). |
| Cable Type | 4 Core |

| <u>Physical Size (includes feet and handles)</u> | |
|---|--|
| External Height (mm) | 600 |
| External Width (mm) | 840 |
| External Depth (mm) | 820 |
| Cubic metre | 0.41 |
| Internal Height (mm) | 260 |
| Internal Width (mm) | 490 |
| Internal Depth (mm) | 360 |
| Cubic (M sq) | 0.0459 |
| Weight (Kg) | 93.00 |
| <u>Accessories</u> | |
| Wire Rack | Vitreous enamel version to be supplied. |
| User guide | Merrychef to originate - since part of approval. |

Specification MenuFlex

| | <u>MenuFlex</u> |
|--|--|
| <u>Control Systems</u> | |
| Position | Right hand side |
| Manufacturer | FAST |
| Power Switching Interface System | Merrychef Design |
| Number of Programs | 40 programs (4 menu groups of 10) |
| Operator Display System | VFD |
| Display functions | Time remaining, Menu Group, Item (by name), Temperature, Error status. |
| Remote Programming Options | ExtraWeb connection. |
| User Interface | Membrane Panel |
| Temperature Set Points | Fully Variable |
| Microwave Set Points | 0, 50%, 100% |
| Variable Control Method | Duty Cycle - Both magnetrons operated in coincidence |
| Cavity temperature control sensor | Thermistor supplied with Fast control unit. |
| Magnetron Current (indicates magnetron working) Sensor | Fibre Optic signal sent to control via interface PCB |
| Stirrer rotating sensor | |
| Axial Fan operating sensor | |
| | |
| <u>Safety Features</u> | |
| Cavity Overheat | 300°C |
| Magnetron Overheat | 125°C |
| Interlock System | Primary/Secondary/Monitor |