

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