

## Lab-Line Ovens



# Imperial V Digital Mechanical Convection



Model 3486M

### Product Description

- P.I.D. microprocessor control and mechanical convection provide superior accuracy, uniformity and recovery times for the most stringent drying and conditioning applications.
- Stainless steel corrosion resistant plenums designed for optimal air flow and uniformity.
- Plug-style door construction guards against heat loss.
- One piece silicone gasket and positive locking door latch prevent heat loss.

## Our Premium, High Performance Ovens!

- P.I.D. Microprocessor temperature control
- Digital display and temperature settings
- Over temperature protection
- ☆ 24 Month Warranty

- 3" fiberglass insulation helps retain heat in oven chamber.
- Drawer-style recessed control panel is protected from spills and slides out for easy maintenance.
- Shelves, supports, and plenum remove easily for cleaning.
- Two adjustable chrome-plated wire shelves included.
- Heavy-duty cold-rolled steel exterior is reinforced at stress points.

### Operation

- Primary P.I.D. controller allows operator to digitally set oven temperature for best repeatability.
- Choice of three microprocessor control options (see opposite page):
  - a) Single set point with 24 hour timer, b) programmable-four programs, each with eight ramps and eight dwells, or c) multi-program, 4 programs with six steps each.
- Controller options allow simultaneous viewing of set point and actual temperature on an easy-to-read LED display.
- Platinum RTD temperature sensor reacts instantly to changes in oven environment for true reading of chamber temperature.

### Safety

- Independent adjustable hydraulic high limit safety thermostat maintains temperature a few degrees above set point in the event of controller failure.
- Control panel indicator light warns operator when backup thermostat is controlling the oven.

### PRODUCT SPECIFICATIONS

Type	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Volume cu. ft. (l)	Shipping Weight Lb. (kg)
	W	H	D	W	H	D		
3481M	13 (33)	19.5 (50)	17.2 (43)	21.6 (55)	35.5 (90)	25.25 (64)	2.5 (70.8)	150 (68)
3486M	18 (46)	19.5 (50)	17.2 (43)	26.6 (68)	35.5 (90)	25.25 (64)	3.5 (99.1)	170 (77)
3488M	23 (58)	19.5 (50)	17.2 (43)	31.6 (80)	35.5 (90)	25.25 (64)	4.4 (124.6)	180 (82)

### OPERATING SPECIFICATIONS

Operating Temp Range °C	Rise Time (Ambient to 200°C)	Control @100°C	Uniformity @100°C	Control @200°C	Uniformity @200°C
Ambient +5°C to 300°C	40 minutes	±0.1°C	±1.0°C	±0.2°C	±2.0°C

### ORDERING INFORMATION

Model #	Description	Electrical (50/60 Hz)			US List Price	Model #	Description	Electrical (50/60 Hz)			US List Price
		Volts	Amps	Watts				Volts	Amps	Watts	
3481M	Imperial V Digital Mechanical	120	10.8	1300	\$3,066.00	3486M-1	Imperial V Digital Mechanical	240	8.0	1900	\$3,319.00
3481M-1	Imperial V Digital Mechanical	240	5.4	1300	\$3,066.00	3488M	Imperial V Digital Mechanical	120	15.8	1900	\$3,620.00
3486M	Imperial V Digital Mechanical	120	15.8	1900	\$3,319.00	3488M-1	Imperial V Digital Mechanical	240	8.0	1900	\$3,620.00

### ACCESSORIES

Model #	Description	US List Price	Model #	Description	US List Price
3471M-8	Shelf for models 3481M, 3481M-1, brackets included	\$85.00	3480-2	Stacking Rack for models 3481M, 3481M-1	\$553.00
3476M-8	Shelf for models 3486M, 3486M-1, brackets included	\$87.00	3485-2	Stacking Rack for models 3486M, 3486M-1	\$579.00
3478M-8	Shelf for models 3488M, 3488M-1, brackets included	\$87.00			