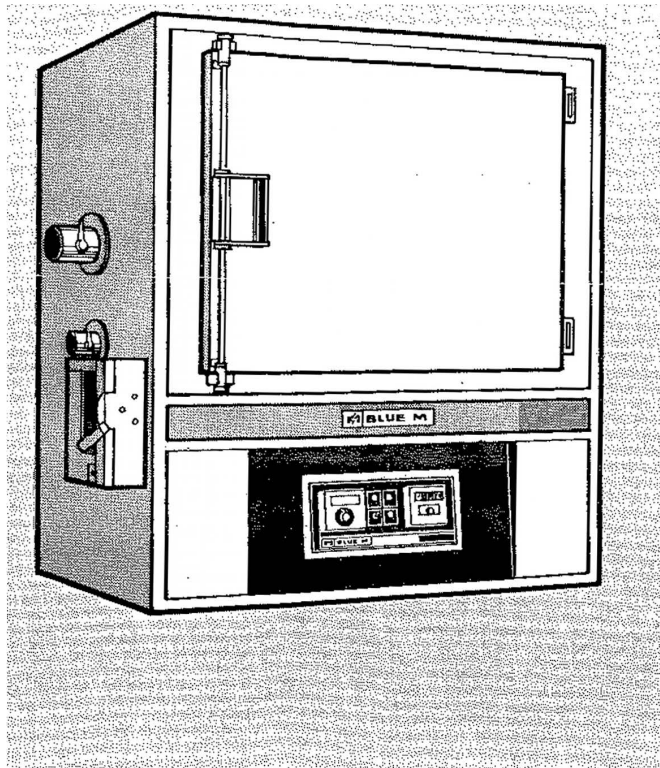


MECHANICAL
HORIZONTAL
ONE-PASS
AIR-FLOW

EXHAUST

AIR INTAKE

MAIN
FUSED
DISCONNECT
SWITCH



BLUE M
TOUCH-MASTER,
PRO-SET, OR
PRO-8 CONTROL
SYSTEM WITH
MAX-SET
OVERTEMPERATURE
PROTECTION

TYPICAL
CHAMBER SHOWN
WITH PRO-SET
INSTRUMENTATION

Note: Data Sheet For Reference Only - Actual Chamber May Vary Depending on Model Year, Options, Controllers, and Individual Configuration

GENERAL SPECIFICATIONS

CONSTRUCTION

HOUSING — all-welded heavy gauge cold rolled steel, reinforced.

INTERIOR — type 304, 18-8 stainless.

EXTERIOR FINISH — attractive blue enamel.

INSULATION — fiberglass.

DOOR(S) — same construction as unit. Silicone rubber seal. All models have one door except those 38" wide or larger which have two but no center mullion.

HARDWARE — exclusive, adjustable no slam, cam action latch and chrome-plated hinges.

ETERNA HEATER BANKS — cylindrical type, assure years of service.

AIR CIRCULATION — quality ball bearing motor and balanced multi-bladed blower designed especially for these units.

SHELVES — two, wire rod or expanded type. Nickel-plated, adjustable on 2" centers. (Stainless optional).

ADJUSTABLE ONE-PASS AIR-FLOW SYSTEM — tempered air passes over heaters and through chamber only once if necessary. Permits almost 100% exhaust, rapid pull-down. Air velocity through work space is approximately 250 F.P.M.

WIRING — complete and enclosed to meet N.E. Code, as amended.

OPERATING AND CONTROL
CHARACTERISTICS

TEMPERATURE RANGE

5 °C. above ambient to + 343 °C.
(+ 650 °F.)

CONTROL ACCURACY: ± 0.5 °C.

SETABILITY: ± 1.0 °C.

REPEATABILITY: ± 0.5 °C.

**TYPICAL AIR TEMPERATURE
UNIFORMITY**

± 1 % of setpoint (with no exhaust)

BLUE M CERTIFICATION

All tests conducted with no load, no ex-haust, and stabilized chamber under normal conditions of voltage and ambient. When unusual line voltages, ambients, severe loads and exhaust rates exist, please contact local sales offices or factory for recommendations.

BLUE M GUARANTEE

When applications are factory approved, we GUARANTEE to supply unit(s) meeting your operating requirements.

These various control systems also include overtemperature protection to avoid temperature run-away and possible damage to valuable workloads. This important feature incorporates Blue M's own MAX-SET™ circuitry, the exclusive innovation that avoids nuisance tripping. MAX-SET is described in full on page 33.

Besides your choice of control instrumentation, Blue M Mechanical Convection Ovens are available in a selection of sizes to fit just about any test, processing or space requirement. There are seven sizes to choose from ranging from 1.6 to 24 cubic feet. Three are compact bench models, four are free-standing floor models. Various voltages also extend your selection possibilities. Depending on the

BLUE M MECHANICAL CONVECTION HORIZONTAL AIR-FLOW OVENS

ONE OF THE FINEST SERIES OF OVENS EVER
DEVELOPED . . .
NOW WITH YOUR CHOICE OF ADVANCED
INSTRUMENTATION

- TOUCH-MASTER Digital Readout Control
- PRO-SET Digital Indicating Control
- PRO-8 Microprocessor-Based Control

Blue M has taken what are acknowledged as among the finest Mechanical Convection Ovens ever built and equipped them with a selection of new instrumentation to tailor them to meet exact but diverse operating requirements.

TOUCH-MASTER: Makes true straight-line, infinitely proportional performance a matter of pushing buttons . . . assures precise temperature regulation efficiently and conveniently. TOUCH-MASTER is a patented Blue M control development.

PRO-SET: Time-proportioning, zero crossover performance in an all solid-state digital indicating control. Provides setting and indication accuracy of ± ½ °. Both setpoint and actual chamber temperature shown on large LED display.

PRO-8, a multi-setpoint 3-mode time proportioning instrument, features an easy-to-read vacuum fluorescent display. All important operating parameters are provided numerically and verbally on demand. A full description of all this instrumentation appears on pages 31-33.

model, these units operate on 208/240 Volt, 1 or 3 phase, or 480 Volt 3 phase 60 Hz. A.C.

Applications for these chambers often involve work where faster-than-normal run-up times or high exhaust rates are necessary. To meet these needs, Blue M has designed several of the units with PRO-SET to include significantly higher KW ratings.

In addition, there are a number of optional accessories available to extend the versatility of these chambers even more. Complete details on all options can be obtained from the factory or from your nearest Blue M office.

Chambers similar to these equipped with less sophisticated control instrumentation have

been in demanding service for years. This work includes processing exotic and costly parts and components over extended periods as well as such more routine procedures as drying, baking and aging. They have never been found wanting. Now with their broad choice of new, advanced instrumentation plus their many outstanding construction features, these chambers are able to satisfy even more demanding requirements than ever before.

Many of their construction features are described on the opposite page. General specifications on them appear on the pages following. Similar chambers with the new PRO-STAR Microprocessor-Based Programmer/Controller are described on page 24.



GENERAL SPECIFICATIONS — BLUE M MECHANICAL CONVECTION OVENS

STANDARD MODELS WITH TOUCH-MASTER

Model Number	Inside Dimensions Inches (Cm.)			Overall Dimensions Inches (Cm.)			Element KW	Total KVA	Voltage 60 Hz. A.C. 3 Phase	Cubic Feet Cap.
	W.	D.	H.	W.	D.	H.				
POM7-136F-3	38	20	25	61	32	62	6.8/9.0	9.0/12.0	208/240V.	10.0
POM7-136G-3	(95)	(51)	(63)	(155)	(80)	(157)	9.0	12.0	480V.	
POM7-336F-3	25	20	38	48	32	75	6.8/9.0	9.0/12.0	208/240V.	10.0
POM7-336G-3	(63)	(51)	(95)	(122)	(80)	(190)	9.0	12.0	480V.	
POM7-1406F-3	48	24	36	71	36	73	9.0/12.0	11.0/15.0	208/240V.	24.0
POM7-1406G-3	(120)	(61)	(90)	(180)	(90)	(185)	12.0	15.0	480V.	
POM7-1506F-3	37	25	37	61	38	75	9.0/12.0	11.0/15.0	208/240V.	19.0
POM7-1506G-3	(93)	(63)	(93)	(155)	(95)	(190)	12.0	15.0	480V.	

STANDARD MODELS WITH PRO-SET

Model Number	Inside Dimensions Inches (Cm.)			Overall Dimensions Inches (Cm.)			Element KW	Total KVA	Voltage 60 Hz. A.C. 3 Phase	Cubic Feet Cap.
	W.	D.	H.	W.	D.	H.				
DC-146C*	14	14								1.6
	(35)	(35)								
DC-206C*	20	18	20	35	30	49	3.0/4.0	4.0/5.0	208/240V.	4.1
	(51)	(45)	(51)	(89)	(76)	(123)				
DC-256C*	25	20	20	41	32	49	4.5/6.0	6.0/8.0	208/240V.	5.8
	(63)	(51)	(51)	(102)	(80)	(123)				
DC-136C	38	20	25	53	32	62	6.0/8.0	7.0/10.0	208/240V.	10.0
	(95)	(51)	(63)	(135)	(80)	(157)				
DC-336C	25	20	38	40	32	75	6.0/8.0	7.0/10.0	208/240V.	10.0
	(63)	(51)	(95)	(102)	(80)	(190)				
DC-1406C	48	24	36	63	36	73	6.8/9.0	8.0/11.0	208/240V.	24.0
	(120)	(61)	(90)	(160)	(90)	(185)				
DC-1506C	37	25	37	53	38	75	6.8/9.0	8.0/11.0	208/240V.	19.0
	(93)	(63)	(93)	(135)	(95)	(190)				

*Bench models

STANDARD BALANCED 3-PHASE MODELS WITH PRO-SET

Model Number	Inside Dimensions Inches (Cm.)			Overall Dimensions Inches (Cm.)			Element KW	Total KVA	Voltage 60 Hz. A.C. 3 Phase	Cubic Feet Cap.
	W.	D.	H.	W.	D.	H.				
DC-206F*	20	18	20	35	30	49	3.0/4.0	4.0/5.5	208/240V.	4.1
	(51)	(45)	(51)	(89)	(76)	(123)				
DC-256F*	25	20	20	40	32	49	4.5/6.9	6.0/8.0	208/240V.	5.8
	(63)	(51)	(51)	(102)	(80)	(123)				
DC-136F	38	20	25	53	32	62	6.8/9.0	9.0/12.0	208/240V.	10.0
DC-136G	(95)	(51)	(63)	(135)	(80)	(157)	9.0	12.0	480V.	
DC-336F	25	20	38	40	32	75	6.8/9.0	9.0/12.0	208/240V.	10.0
DC-336G	(63)	(51)	(95)	(102)	(80)	(190)	9.0	12.0	480V.	
DC-1406F	48	24	36	63	36	73	9.0/12.0	11.0/15.0	208/240V.	24.0
DC-1406G	(120)	(61)	(90)	(160)	(90)	(185)	12.0	15.0	480V.	
DC-1506F	37	25	37	53	38	75	9.0/12.0	11.0/15.0	208/240V.	19.0
DC-1506G	(93)	(63)	(93)	(135)	(95)	(190)	12.0	15.0	480V.	

*Bench models

HIGH-POWERED MODELS WITH PRO-SET

Model Number	Inside Dimensions Inches (Cm.)			Overall Dimensions Inches (Cm.)			Element KW	Total KVA	Voltage 60 Hz. A.C. 1 Phase	Cubic Feet Cap.
	W.	D.	H.	W.	D.	H.				
DC-146C-HP	14	14	14	29	26	43	5.2/7.0	6.0/8.0	208/240V.	1.6
	(35)	(35)	(35)	(74)	(65)	(109)				
DC-206C-HP	20	18	20	35	30	49	6.8/9.0	8.0/10.0	208/240V.	4.1
	(51)	(45)	(51)	(89)	(76)	(123)				
DC-256C-HP	25	20	20	40	32	49	6.0/9.0	7.5/10.0	208/240V.	5.8
	(63)	(51)	(51)	(102)	(80)	(123)				

All units are bench models



Model Number	Inside Dimensions Inches (Cm.)			Overall Dimensions Inches (Cm.)			Element KW	Total KVA	Voltage 60 Hz. A.C. 3 Phase	Cubic Feet Cap.
	W.	D.	H.	W.	D.	H.				
DC-206F-HP*	20	18	20	35	30	49	6.8/9.0	8.0/10.0	208/240V.	4.1
DC-206G-HP*	(51)	(45)	(51)	(89)	(76)	(123)	9.0	10.0	480V.	
DC-256F-HP*	25	20	20	40	32	49	9.0/12.0	10.0/13.0	208/240V.	5.8
DC-256G-HP*	(63)	(51)	(51)	(102)	(80)	(123)	12.0	13.0	480V.	
DC-136F-HP	38	20	25	53	32	62	13.5/18.0	14.5/19.0	208/240V.	10.0
DC-136G-HP	(95)	(51)	(63)	(135)	(80)	(157)	18.0	19.0	480V.	
DC-336F-HP	25	20	38	40	32	75	13.5/18.0	14.5/19.0	208/240V.	10.0
DC-336G-HP	(63)	(51)	(95)	(102)	(80)	(190)	18.0	19.0	480V.	
DC-1406F-HP	48	24	36	63	36	73	18.0/24.0	19.0/25.0	208/240V.	24.0
DC-1406G-HP	(120)	(61)	(90)	(160)	(90)	(185)	24.0	25.0	480V.	
DC-1506F-HP	37	25	37	53	38	75	18.0/24.0	19.0/25.0	208/240V.	19.0
DC-1506G-HP	(93)	(63)	(93)	(135)	(95)	(190)	24.0	25.0	480V.	

*Bench models

**HIGH-POWERED
BALANCED
3-PHASE
MODELS
WITH
PRO-SET**

Model Number	Inside Dimensions Inches (Cm.)			Overall Dimensions Inches (Cm.)			Element KW	Total KVA	Voltage 60 Hz. A.C. 3 Phase	Cubic Feet Cap.
	W.	D.	H.	W.	D.	H.				
MP-206C-1*	20	18	20	52	30	49	3.0/4.0	4.0/5.0	208/240V.	4.1
	(51)	(45)	(51)	(132)	(76)	(123)				
MP-256C-1*	25	20	20	57	32	49	4.5/6.0	6.0/8.0	208/240V.	5.8
	(63)	(51)	(51)	(145)	(80)	(123)				
MP-136C-1	38	20	25	70	32	62	6.0/8.0	7.0/10.0	208/240V.	10.0
	(95)	(51)	(63)	(178)	(80)	(157)				
MP-336C-1	25	20	38	57	32	75	6.0/8.0	7.0/10.0	208/240V.	10.0
	(63)	(51)	(95)	(145)	(80)	(190)				
MP-1406C-1	48	24	36	80	36	73	6.8/9.0	8.0/11.0	208/240V.	24.0
	(120)	(61)	(90)	(203)	(90)	(185)				
MP-1506C-1	37	25	37	70	38	75	6.8/9.0	8.0/11.0	208/240V.	19.0
	(93)	(63)	(93)	(178)	(95)	(190)				

*Bench models

**STANDARD
MODELS
WITH
PRO-8**

Model Number	Inside Dimensions Inches (Cm.)			Overall Dimensions Inches (Cm.)			Element KW	Total KVA	Voltage 60 Hz. A.C. 3 Phase	Cubic Feet Cap.
	W.	D.	H.	W.	D.	H.				
MP-206F-1*	20	18	20	52	30	49	3.0/4.0	4.5/5.5	208/240V.	4.1
	(51)	(45)	(51)	(132)	(76)	(123)				
MP-256F-1*	25	20	20	57	32	49	4.5/6.0	6.0/8.0	208/240V.	5.8
	(63)	(51)	(51)	(145)	(80)	(123)				
MP-136F-1	38	20	25	70	32	62	6.8/9.0	9.0/12.0	208/240V.	10.0
MP-136G-1	(95)	(51)	(63)	(178)	(80)	(157)	9.0	12.0	480V.	
MP-336F-1	25	20	38	57	32	75	6.8/9.0	9.0/12.0	208/240V.	10.0
MP-336G-1	(63)	(51)	(95)	(145)	(80)	(190)	9.0	12.0	480V.	
MP-1406F-1	48	24	36	80	36	73	9.0/12.0	11.0/15.0	208/240V.	24.0
MP-1406G-1	(120)	(61)	(90)	(203)	(90)	(185)	12.0	15.0	480V.	
MP-1506F-1	37	25	37	70	38	75	9.0/12.0	11.0/15.0	208/240V.	19.0
MP-1506G-1	(93)	(63)	(93)	(178)	(95)	(190)	12.0	15.0	480V.	

*Bench models

**BALANCED
3-PHASE
MODELS
WITH
PRO-8**

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