

Montreal-Biotech-Bench Top Programmable Fermentation System



Bench Top Programmable Fermentation System



MBI Lab Equipment

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Bench Top Programmable Fermentation

System

**MBIMS-F1-S-3L Fermentation System
with a 3 Liter culture vessel**

**MBIMS-F1-S-5L Fermentation System
with a 5 Liter culture vessel**

**MBIMS-F1-S-7L Fermentation System
with a 7 Liter culture vessel**

**MBIMS-F1-S-10L Fermentation System
with a 10 Liter culture vessel**

**MBIMF-F1-D Dual vessel-One controller
Systems are available**

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Features

Bench Top Fermenter

A. Vessel

- The electro-polished 316 stainless steel head and bottom plate fitted onto the single glass vessel.
- 10 ports with fitting for multiple application, such as pH; DO, Temp; Anti-foam; Sampling; Breeding, etc.

B. Agitation

C. Aeration

- The unit is supplied with a flow meter (rotameter type 0~10 L/min) for the control of the flow rate of air into the bioreactor.
- L-type sparger : the geometry of the vessel, combined with the right design of impellers provide the culture with optimal transfer rates and mixing.

Bench Top Programmable Microprocessor Controller

A. 15 steps programmable temperature controller

- PID controller with 15 programmable steps
- Bottom heating plate combine with cooling valve

Temp range / accuracy : 0-90 / ± 0.1

B. 15 steps programmable agitation controller

- PID controller with 15 programmable steps
- Range between 0-1200 rpm

C. pH controller

- 1 combined autoclavable pH probe (in-gold type), with gelled electrolyte.
- Range / accuracy : pH 2-12 / ± 0.01

D. DO display

- Autoclavable ingold type DO probe
- Range : 0-100%

E. Antifoam controller

- Stainless steel probe with electric insulation attached to a port on the head plate of bioreactor allowing height adjustment.
- Delay cyclical operation automatically controlled by two programmable timers.

F. Pumping versatility

- Four built-in, programmable pumps can be assigned to more than five different functions via the keypad. These include addition of acid, base, chemical defoamer and nutrients as well as the harvesting of culture. Control capability is also provided for an optional fifth pump.
- Adjustable flow rate for each easy load pump head.
- 15 programmable steps for each feeding application.

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Specifications

	MBIMS-F1-S-3L	MBIMS-F1-S-5L	MBIMS-F1-S-7L	MBIMS-F1-S-10L
Vessel working volume	3L	5L	7L	10L
Height / diameter	260/130 mm	320/160 mm	360/180 mm	400/200 mm
Aeration	Single orifice sparger			
Inlet gas flow meter	Adjustable ; 5L / min		Adjustable ; 10L / min	
Outlet gas	Stainless steel condenser			
Mechanical seal	Single mechanical seal			
Driver	Removable top driver motor			
Agitation speed	100-1,200 rpm 15 steps programmable controller			
Temperature controller	15 steps programmable PID controller			
Cooling	Cooling coil on inner of vessel with control valve			
Heating	Bottom heating plate			

Temp probe	Pt 100 ; 0-90 ; +/- 0.1
PH probe	Autoclavable ; pH 2-12 ; ± 0.01
DO	Autoclavable, 300 mm 0-100%
Antifoam probe	316 stainless steel with insulated tube ; on/off controller
Easy load pump	4 ea of easy load pump head ; Fifth pump head for option Pumps can be assigned and adjusted to more than five different functions via the keypad 15 steps programmable feeding application
Communication port	RS 485
Other accessories	a. 250 ml media bottle x 4 ea b. 500 ml media bottle x 1 ea c. 1,000 ml media bottle x 1 ea d. #16 silicon tube (25 ft/pk) x 2 ea e. 2 ports of stainless steel stopper x 3 ea f. stainless steel stopper x 2 ea g. stainless steel feeding tube x 10 ea

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Ordering

Description	Catalog no.	Price
Fermentation System with a 3 Liter Culture Vessel	MBIMS-F1-S-3L	Contact us
Fermentation System with a 5 Liter Culture Vessel	MBIMS-F1-S-5L	Contact us
Fermentation System with a 7 Liter Culture Vessel	MBIMS-F1-S-7L	Contact us
Fermentation System with a 10 Liter Culture Vessel	MBIMS-F1-S-10L	Contact us

Accessories Available

Description	Catalog no.	Price
3 liter fermenter vessel	MBIMS-F-3LV	Contact us
5 liter fermenter vessel	MBIMS-F-5LV	Contact us
7 liter fermenter vessel	MBIMS-F-7LV	Contact us
10 liter fermenter vessel	MBIMS-F-10LV	Contact us
3 liter fermenter vessel with all the stainless steel accessories	MBIMS-F-3LVD	Contact us
5 liter fermenter vessel with all the stainless steel accessories	MBIMS-F-5LVD	Contact us
7 liter fermenter vessel with all the stainless steel accessories	MBIMS-F-7LVD	Contact us
10 liter fermenter vessel with all the stainless steel accessories	MBIMS-F-10LVD	Contact us
Temperature Probe with Cable, Type PT100	MBIMS-F-TP	Contact us
Blushless motor 100-1200 rpm	MBIMS-F-BM	Contact us
Sterilizable pH probe with cable 2M	MBIMS-F-PHP	Contact us

Sterilizable DO probe with cable 2M	MBIMS-F- DOP	Contact us
Sterilizable level probe with cable 2M	MBIMS-F- FLP	Contact us
Base unit	MBIMS-F- BU	Contact us
Circulated cooling water bath, 10 Liter	MBIMS-F- CWB	Contact us
Diaphragm air pump	MBIMS-F- DAP	Contact us
0-3 liters air flow meter with regulator	MBIMS-F- 3AF	Contact us
0-5 liters air flow meter with regulator	MBIMS-F- 5AF	Contact us
0-10 liters air flow meter with regulator	MBIMS-F- 10AF	Contact us
250ml feeding glass bottle, includes two ports stainless steel connecting set	MBIMS-F- 250B	Contact us
500ml feeding glass bottle, includes two ports stainless steel connecting set	MBIMS-F- 500B	Contact us
45mm 0.25u autoclavable disc filter, pack of 10	MBIMS-F- DF	Contact us
Connecting stainless steel tube, length 50mm, pack of 10	MBIMS-F- CT	Contact us
Stainless steel two ports feeding adapter	MBIMS- FDA	Contact us

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