

**MEDICAL BIOLOGICAL  
SAFETY CABINET**



# MEDICAL BIOLOGICAL SAFETY CABINET

It is designed to provide a controlled environment for the manipulation and amplification of DNA and RNA. From Dead-Air boxes to Laminar Flow UV Cabinets with HEPA filtration we have a solution to support your application. Safety is kept in mind for changing the filter. Used in Drug processing, Pharmaceutical, Laboratory, Research. Also known as Medical Biosafety Cabinet.

## BM41 SERIES MEDICAL BIOLOGICAL SAFETY CABINET

### FEATURES

	BM411	BM412
UV Lamp: Emission of 253.7 nanometers for most efficient decontamination.	•	•
Stainless Steel 304 table for operation	•	
Digital LCD display for easy monitoring of all parameters	•	
Remote control operation including front sash movement and fan speed control	•	
Motored front window with timer function	•	
Two-layered marinated toughened glass (≥5mm) motorized front window	•	
Negative air pressure provides personnel protection by constant movement of air in working area	•	
Foot switch to adjust the height of the front window	•	
Low noise and high energy efficiency for operational cost savings	•	
Audio and visual alarm for filter replacement, front window over height and abnormal airflow	•	
Centrifugal fan speed adjustable: H14 HEPA filter	•	
Intrinsic sterilization is achieved after activating cabinet for 30 min via UV timing	•	
Air drawn into the cabinet through air grill	•	
Filter Life Indicator: Pressure value displayed to show life utility of main filter	•	
LED Display: UV timer		•
Waterproof Socket: 2 waterproof sockets are located in the back wall, for optimum convenience of using small devices inside the cabinet.		•
Shelf with IV bar		•
Side Glass Window: Side glass windows maximize light and visibility inside the cabinet, providing a bright and open working environment.		•

### SPECIFICATIONS

Model	BM411	BM412
Name	Cytotoxic Safety Cabinet	PCR Cabinet
Type	Class II, Type A2	-
HEPA Filter	2	-
Air Filter	ULPA Filter, >99.999% efficiency for particle size at 0.12 µm. Filter life Indicator	-
HEPA Filter Efficiency	99.999% efficiency at 0.3 µm. Filter life Indicator	-
Airflow Volume Exhaust	465 m <sup>3</sup> / h (273 cfm)	-
Minimum Face Velocity	75 linear feet per minute (lfpm)	-

Inflow Velocity	0.53 m/s	-
Down Flow Velocity	0.33 m/s	-
LED Lamp	28 Wx2	-
Fluorescent Lamp	28 Wx2	40 Wx1
UV Lamp	30 Wx1	20 Wx2, UV timer
Illumination	≥1000 lux	
Work Surface Height	750 mm	
Tested Opening	200 mm	-
Max Opening	440 mm	320 mm
Internal Work Area, Space	0.73 m <sup>3</sup>	-
Inner Dimension (WxDxH)	1220x660x630 mm	900x595x560 mm
Overall Dimension (WxDxH)	1370x760x2100 mm	1000x705x1770 mm
Package Size	1550x900x2280 mm	1160x920x1350 mm
Caster	Universal Wheel with brake and levelling feet	Universal Caster with leveling feet
Control System	Microprocessor	-
Chamber Material	Cold-rolled steel coated with anti-bacteria powder coating	Main Body: Cold-rolled steel with anti-bacteria powder coating, Work Table: 304 stainless steel
Socket	Two, Total load of two sockets: 500 W	Two, total load ≤500 W
Tap	Water tapx1, Gas tapx1	-
Noise Level	EN12469 ≤58 dB/NSF49 ≤ 61 dB	≤60 dB
Weight	350 kg	150 kg
Power	900 W	380 W
Power Supply	AC220 V ±10%, 50/60 HZ; 110V ±10%, 60 HZ	AC220 V ±10%, 50/60 HZ; 110 V ±10%, 60 HZ
Air Flow Velocity	-	0.3~0.5 m/s, speed adjustable
Pre-Filter	-	Polyester fiber, Washable
Shelf with IV Bar (WxDxH)	-	Stainless steel, 492x140x55 mm
Front Window	-	Manual, 5 mm toughened glass, Anti-UV

## ACCESSORIES

Accessory Code	Name	For Models
BX1026	Fluorescent Lamp	BM411
BX1027	UV Lampx2	BM411
BX1028	Base Stand	BM411
BX1029	Remote Control	BM411
BX1031	Drain Valve	BM411
BX1032	Waterproof Sockets	BM411

Accessory Code	Name	For Models
BX1033	Stainless Steel water & Gas Taps	BM411
BX1013	Fluorescent lamp	BM412
BX1015	Base stand	BM412
BX1022	Total load of two waterproof sockets: 500W	BM412
BX1042	UV Lampx4	BM412
BX1043	Shelf with IV bar	BM412

## OPTIONAL ACCESSORIES

Accessory Code	Name	External Dimension	Package Size(mm)	For Models
BX1001	Infrared Sterilizer	150x95x210 mm		BM411
BX1002	Airflow Tester			BM411
BX1003	Formalin Fumigation Sterilizer		300x200x160	BM411
BX1004	Ammonium Hydrogen Carbonate Neutralizer		300x200x160	BM411
BX1005	Armrest			BM411
BX1006	Laboratory Chair			BM411
BX1007	Dust Particle Counter			BM411
BX1008	Digital Sound Level Meter			BM411
BX1009	Illumination Meter			BM411
BX1010	Air Flow Anemometer			BM411
BX1011	Protective Garment			BM411
BX1012	Protective Gloves			BM411



BM411



BM412

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