

MEDICAL BIOLOGICAL SAFETY CABINET



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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 ($\geq 5\text{mm}$) 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 ³ / 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 ³ | - |
| 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 $\pm 10\%$, 50/60 HZ; 110V $\pm 10\%$, 60 HZ | AC220 V $\pm 10\%$, 50/60 HZ; 110 V $\pm 10\%$, 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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