MODEL XJ 2

Cost Effective Negative Pressure and HEPA Filtration for Isolation Rooms and Other High Risk Areas

- Quiet
- Affordable
- Portable
- Compact
- Fast and Flexible Installation

Convert ordinary patient care rooms into negative pressure isolation rooms.

For further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
FEATURES

INDEPENDENT LAB TESTED
Unlike some units where just the filter is tested to HEPA efficiency, the XJ-2 was independently lab tested in its entirety to be 99.999% efficient on 0.3 micron particles.

QUIET:
The XJ-2's Quiet operation design features include a backward curved, dynamically balanced impeller and a sound dampening blower baffle to reduce sound levels to a minimum.

EFFECTIVE FILTRATION TECHNOLOGY:
The XJ-2's certified HEPA air filter is highly effective in removing microorganism-sized particulate. The 3M Filtrete™ prefilter protects the HEPA filter reducing maintenance costs. Provides 12 air changes per hour, enough for most hospital rooms.

EASY INSTALLATION:
The XJ-2 is shipped fully assembled and ready for roll in installation.

SPECIFICATIONS

- Dimensions & Weight: 55” H x 26.5” W x 15” D x 140 lbs.
- Air Flow Capability: Adjustable from 115 CFM to 1000 CFM
- Pre-filter: 3M Filtrete™ (80-85% ASHRAE efficient)
- Primary filter: HEPA (99.97% DOP efficient at 0.3 microns)
- Filter Pressure Gauge: Mini-Helic® 0” to 3” range
- Power Requirements: 115Vac, 60 Hz, 4 Amps, 400 Watts
- Sound Levels: 35 dBA @ 115 CFM and 66 dBA @ 775 CFM (tested 4’ from unit)
- Cabinet: Heavy-gauge, welded steel cabinet with white powder coat finish.
- Base: Standard base includes four swivel casters.

ACCESSORIES:
- Room Pressure Monitor (07132)
- Security Cover (07131)
- Wall Mounting Kit (07130)

For further information:

BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com

Manufacturer has a policy of continuing product improvement and reserves the right to make changes in design and specification without notice.

Mini-Helic® is a registered trademark of Cooper Instruments, Inc.
Filtrete™ is a trademark of 3M, Inc.
SUPPLYING CLEAN AIR TO HEALTH CARE

ROOM PRESSURE MONITOR FEATURES & SPECIFICATIONS

The room pressure monitor will monitor your isolation rooms and warn of unsafe conditions. The room pressure monitor accurately measures both negative and positive pressure. The monitor is provided with alarm contacts and an analog output for remote monitoring of isolation room conditions.

FEATURES

- Audible/visual alarms
- Alarm located in the hallway just outside the door
- Digital display
- Panel slides open to display detailed room information
- Easy to program
- Easy to install and maintain

SPECIFICATIONS

Range: -0.2000 to +0.2000 inches H2O
Resolution: 5% of reading
Accuracy: ±10% of reading ±0.0001 inches H2O
Display Update: 0.5 seconds
Low Alarm Range: -0.19500 to 0.19500 inches H2O
High Alarm Range: -0.19000 to 0.19000 inches H2O
Alarm Contacts: SPST max current 5 amps, max voltage 150 VDC, 250 VAC. Minimum switch load 0 mA, 5 VDC. Contacts close in alarm conditions.
Analog Output: 0 to 10 VDC or 4 to 20 mA
Operating Temperature Range: 32 to 120 degrees F
Output Power: 24 VAC, 5 watts max
Display Weight: 0.7 lb
Sensor Temperature Range: 55 to 95 degrees F
Sensor Weight: 0.2 lb

For further information:

BERRIMAN ASSOCIATES
1-800-480-3630
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The IQAir Cleanroom Series offers a range of decentralized HEPA air cleaning systems designed to meet airborne infection control and particulate contamination challenges in critical indoor environments.

IQAir systems filter the air by recirculation or by creating true positive or negative pressure environments with special ducting adaptors.

To guarantee actual filtration efficiency and clean air delivery rates, each system is individually tested and certified.

IQAir’s filtration efficiency, versatility and mobility make it the most advanced and cost-effective decentralized filtration system available today.

For further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
Professional Control of Airborne Particulates

The IQAir Cleanroom Series is a line of advanced air cleaning systems designed specifically for the removal of solid and liquid airborne particles.

**HEPA and ULPA Filtration**
The Cleanroom Series provides a choice of 2 models, each with a specific filter efficiency and air delivery profile. While health-care facilities may require higher air delivery to achieve optimum control of microorganisms (e.g. in ICUs or TB isolation rooms), a cleanroom facility may need a filtration efficiency of 99.97% to meet strict manufacturing regulations or standards.

| Cleanroom H11 | ≥99% 0.3 µm | 350 cfm |
| Cleanroom H13 | ≥99.97% 0.3 µm | 320 cfm |

**Positive & Negative Pressure Environments**
Each IQAir Cleanroom system can be used as recirculation device, or can be connected to special ducting adaptors to create positive and negative pressure environments. These pressure environments are particularly beneficial when the containment of harmful microorganisms and particles, or the protective isolation of immuno-compromised patients is required.

**Medical Applications**
- Protective Isolation Rooms
- ICUs
- Burn Units
- Operating Rooms
- Organ Transplant Wards
- Oncology Wards
- Research & Microbiology Labs
- TB Isolation & Anterooms

**Commercial Applications**
- FDA-Required "Controlled Environments"
- Medical Device Manufacturing & Packaging
- Food Processing & Packaging
- Air Locks
- Cleanroom Gowning Rooms
- Critical Data Storage Facilities

**Cleanroom Series: Features**

- **Air Outlet Diffuser**
  - returns clean, low turbulence, low velocity air
  - **optional:** outlet adapter to create positive and negative pressure environments (OutFlow)

- **HEPA Filter Element**
  - EN1822 type-tested and certified
  - Choose between efficiencies of 99% at 0.3 µm and 99.97% at 0.12 µm (class H11 to H13)

- **High-Performance Centrifugal Fan**
  - air delivery with filters: up to 350 cfm
  - fan capacity: 700 cfm
  - low energy consumption: 90-160 watts

- **Pre-Filter Element**
  - fine dust filtration with mini-pleat 55% efficient media at 0.3 µm (ASHRAE 90-95%, class F8)
  - prolongs life of HEPA filters

- **Dual Air Intake**
  - maximum distance from air outlet prevents re-intake of already cleaned air (short-cutting)
  - **optional:** air intake adapter to create positive and negative pressure environments (InFlow)

IQAir is a registered trademark. Technical and other specifications are subject to change without notice.
The FlexVac kit converts any IQAir filtration unit into a mobile self-contained extraction-at-source system. The FlexVac extraction system captures gases, fumes, vapors, odors and dust particles directly at their source.

Since the FlexVac kit is compatible with all IQAir filtration devices, the system can easily be configured to capture contaminants generated by processes in a wide variety of applications and environments including:

- Laboratories
- Hospitals
- Cleanrooms
- Quality Control
- Pharmaceutical
- Assembly and Finishing
- Soldering / Electronics
- Research & Development
Airborne pollution from gases, fumes and dust is a serious problem affecting the working environment in electronic, chemical, pharmaceutical, healthcare and other industries. Direct source capture of these pollutants is by far the most effective way to reduce human exposure.

The FlexVac kit converts any IQAir filtration unit into a mobile, self-contained extraction system for the capture of gases, fumes, vapors, smells and dust particles at the air pollution source. Distinguishing features of the FlexVac kit are:

- Reach
- Maneuverability
- Stability
- Suction power
- Durability
- Ease of Use
- Easy Maintenance
- Expandability

**Exceptional Reach**
The FlexVac kit features a self-supporting suction duct that gives the FlexVac a horizontal reach of up to 7’ and a vertical reach of up to 9’.

**Exceptional Maneuverability**
The mobility of the FlexVac kit is ensured by six casters, of which two are lockable. The suction duct can be bent, twisted and turned into virtually any position and will remain in place until repositioned.

**Exceptional Stability**
The FlexVac suction duct is made of interlocked polypropylene plastic. This makes the duct stiff enough to be self-supporting and flexible enough to allow for convenient positioning. The interlocked construction also enables the stiffness of the suction duct to be adjusted. In its compressed state the duct is at its stiffest. Extending it by pulling make the duct less stiff.

**Exceptional Suction Power**
The FlexVac kit has exceptional direct source capture power for a system of its size and reach. This is due to the 5” diameter of the suction duct and the internal connection ducts to the main filter unit. Adding a FlexVac source capture kit to an IQAir filtration device typically reduces its air flow by only 10-30% (depending on the model and fan speed). At a typical air flow of 150 cfm the air velocity in the suction duct is approx. 17 ft/s.

**Exceptional Durability**
All FlexVac components are designed for outstanding durability. The suction duct is made from shatterproof and chemically resistant polypropylene. It has flame retardant characteristics, resists abrasion and withstands temperatures from -13 to 180°F. The support column is made from powder coated steel. The base platform consists of solid 1.25“ PVC plates.

**Ease of Use**
Due to its self-contained design the IQAir extraction system requires no venting or ducting to the outside. This makes the system completely mobile, saves energy and expensive building conversion work. Assembly of the FlexVac kit takes just a few minutes and all required tools are supplied.

**Easy Maintenance**
Dust deposits inside the suction duct and the internal ducting are minimal since there are no internal support structures. The FlexVac kit is easily dismantled for cleaning.

**Exceptional Expandability**
New accessories are under constant and ongoing development in order to satisfy new application requirements. Ask your IQAir authorized dealer for further information.
The four main parts of the FlexVac kit:

**Suction Adapter**
- Screws to the base of the air filtration unit to enable connection of internal ducting.

**Base Platform**
- Slides onto the unit’s base. Raises unit to accommodate the suction adapter. Serves as fixture point for the support column.

**Support Column**
- Leads internal ducting to and supports the suction duct.

**Suction Duct**
- 5” diameter, 5’ long self-supporting polypropylene suction duct.
<table>
<thead>
<tr>
<th>Technical Specifications</th>
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</thead>
<tbody>
<tr>
<td><strong>Typical IQAir Unit Air Flow Reduction</strong></td>
</tr>
<tr>
<td>10-30% (depending on model and fan speed)</td>
</tr>
<tr>
<td><strong>Typical Suction Velocity</strong></td>
</tr>
<tr>
<td>Approx. 12 mph - 17 ft/s (19 km/h - 5 m/s) at air flow of 150 cfm (255 m³/h)</td>
</tr>
<tr>
<td><strong>Suction Adapter</strong></td>
</tr>
<tr>
<td>Material: powder-coated steel with PVC</td>
</tr>
<tr>
<td><strong>Base Platform</strong></td>
</tr>
<tr>
<td>Material: solid PVC</td>
</tr>
<tr>
<td><strong>Support Column &amp; Column Cover</strong></td>
</tr>
<tr>
<td>Material: steel, white powder-coated</td>
</tr>
<tr>
<td><strong>Suction Duct (Self-Supporting)</strong></td>
</tr>
<tr>
<td>• <strong>Material</strong></td>
</tr>
<tr>
<td>Interlocked polypropylene (PP)</td>
</tr>
<tr>
<td>Compressed length: 5’ (1500 mm)</td>
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<tr>
<td>Extended length: 7.5’ (2300 mm)</td>
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<tr>
<td>• <strong>Horizontal Reach (from unit center)</strong></td>
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<tr>
<td>Compressed duct: 6’ (1800 mm)</td>
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<tr>
<td>Extended duct: 7’ (2100 mm)</td>
</tr>
<tr>
<td>• <strong>Vertical Reach (from floor)</strong></td>
</tr>
<tr>
<td>Compressed duct: 7.2’ (2200 mm)</td>
</tr>
<tr>
<td>Extended duct: 9’ (2800 mm)</td>
</tr>
<tr>
<td>• <strong>Minimum Bending Radius</strong></td>
</tr>
<tr>
<td>14” (360 mm) at 72°F (25°C)</td>
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<tr>
<td>• <strong>Temperature Range</strong></td>
</tr>
<tr>
<td>-13 to 180°F (-28 to 93°C)</td>
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<tr>
<td><strong>IQAir Compatibility</strong></td>
</tr>
<tr>
<td>Compatible with all IQAir filtration devices.</td>
</tr>
<tr>
<td>Not compatible with accessories PF40, VM FlexVac, Mobility 56 and InFlow W125.</td>
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<th>Environments &amp; Applications</th>
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<td><strong>Healthcare Industry</strong></td>
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<td>• Laser surgery</td>
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<td>• Disinfectant control</td>
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<td>• Mercury vapor control</td>
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<td>• Gluing</td>
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<tr>
<td>• Laser cutting</td>
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<td><strong>Chemical &amp; Pharmaceutical Industry</strong></td>
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<td>• Chemical compound control</td>
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<td>• Powder dust control</td>
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<td><strong>Laboratories</strong></td>
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<td>• Chemical compound control</td>
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<td>• Dust control</td>
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<td><strong>Computer &amp; Electronic Industry</strong></td>
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<tr>
<td>• Hand soldering</td>
</tr>
<tr>
<td>• Wave soldering</td>
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<tr>
<td>• Dedrossing</td>
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<tr>
<td>• Laser marking</td>
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</tbody>
</table>

The indoor air quality (IAQ) improvements that can be achieved with IQAir units depend not only on the system performance, but also on factors which are specific to the indoor environment, such as room size, type and concentration of contaminants and source intensity. Consult a qualified IAQ specialist to determine an effective and comprehensive IAQ strategy. Source control and ventilation should be considered first in solving any IAQ problem.

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The InFlow W125 ducting kit enables any IQAir filtration unit to draw outside air through a wall or window vent into an indoor environment.

**Clean Air Ventilation**

With the InFlow W125 your IQAir filter unit draws outdoor air into your indoor environment. The set-up ensures that fresh, oxygen-enriched air is stripped from outdoor pollutants before it enters indoors. The positive pressure that is created in the process prevents unfiltered outdoor air to leak indoors through gaps and cracks.

**Creation of Pressure Differentials**

The InFlow W125 allows pressure differentials between different indoor environments to be created. Negative pressure environments serve to contain pollutants in isolation areas. Positive pressure protects clean environments from uncontrolled infiltration of airborne contaminants from more polluted areas.
The *InFlow W125* kit allows any IQAir filtration unit to be adapted to draw outside air through a wall or window vent into an indoor environment. The *InFlow W125* kit can be used to create a clean area, to ventilate a room with fresh, filtered air from outdoors or to create negative pressure or positive pressure areas.

### Clean Area & Cleanroom Use
The supply of filtered air into an environment helps reduce air pollution in that environment by dilution and the creation of positive pressure, which reduces the influx of polluted outside air into the clean area. With the *InFlow W125* kit, the filtration unit is positioned inside the clean area or cleanroom, allowing for convenient control of the unit.

### Ventilation
No filtration system can add oxygen to indoor air. Fresh, oxygen-enriched air from outdoors is in any case essential. The *InFlow W125* allows undesirable pollutants to be filtered from outdoor air before it is brought into an indoor environment.

### Isolation Areas
The control of airborne pathogens that can lead to the transmission of infectious diseases, like tuberculosis (TB), demands the creation of negative pressure environments. With the *InFlow W125*, the air filtration unit is positioned outside the isolation area. This saves valuable space and reduces noise exposure inside the isolation area.

The *InFlow W125* kit easily modifies any IQAir filtration unit. Simply slide the extension blocks into the air cleaner’s base and screw the suction adapter to the base. All that is needed to install the *InFlow W125* ducting, internal flange, wall tube and vent is a 132 mm (5.2”) opening in a wall or window. The *InFlow W125* kit includes a damper and a protective mesh grille which prevent backdrafts and entry of coarse particles when the system is not in use. The large 125 mm (5”) diameter of the ducting ensures low air resistance, typically reducing the air flow of an IQAir filter unit by only 10-30% (depending on model and fan speed).

The flexible duct may be freely flexed to allow control over the desired vent location. It is expandable in length, from 250 mm (10”) in its original compressed state, to 600 mm (24”) when fully extended.

### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td><strong>Aperture Diameter Required</strong></td>
<td>132 mm (5.2”)</td>
</tr>
<tr>
<td><strong>Wall Tube Length</strong></td>
<td>100 mm (4”)</td>
</tr>
<tr>
<td><strong>Flexible Duct</strong></td>
<td>125 mm (5”) diameter</td>
</tr>
<tr>
<td></td>
<td>Minimum bend radius: 250 mm (10”)</td>
</tr>
<tr>
<td></td>
<td>Adjustable length from 250 mm (10”) to 600 mm (24”)</td>
</tr>
<tr>
<td><strong>IQAir Compatibility</strong></td>
<td>Compatible with all IQAir filtration devices.</td>
</tr>
<tr>
<td></td>
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The indoor air quality (IAQ) improvements that can be achieved with IQAir units depend not only on the system performance, but also on factors which are specific to the indoor environment, such as room size, type and concentration of contaminants and source intensity. Consult a qualified IAQ specialist to determine an effective and comprehensive IAQ strategy. Source control and ventilation should be considered first in solving any IAQ problem.

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Outflow Wall Ducting Kit: OutFlow™ W125

For further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com

The OutFlow W125 ducting kit directs cleaned air from an IQAir filtration device through a wall or window vent.

Symbols Key

With the Outflow W125 your IQAir filtration device can be used for emission control. Air is filtered and expelled outdoors via a flexible ducting system. The under-pressure area that is created in the process prevents unfiltered indoor air from leaking outdoors.

The Outflow W125 lets you create pressure differentials between different indoor areas. Under-pressure serves to contain pollutants in an isolation area. Over-pressure protects a clean environment from uncontrolled infiltration of airborne contaminants from polluted areas.
Direct Filtered Air Through a Wall or Window Vent

The OutFlow W125 kit allows filtered air from any IQAir filtration device to be directed through a wall or window vent. The OutFlow W125 kit can be used to create a clean area, deliver filtered air into a cleanroom or to the outside, as well as create under-pressure or over-pressure areas.

Clean Area & Cleanroom Use
The supply of filtered air into an environment helps reduce air pollution in that environment by dilution and the creation of over-pressure, which reduces the influx of polluted air from outside the environment. With the OutFlow W125 kit, the filtration device is positioned outside the clean area or cleanroom, saving valuable space and reducing noise exposure. It also eliminates the danger of housing leakage, making it suitable even for certified cleanrooms.

Emission Control
Legislation limits the emission of polluted air to the outdoors. The OutFlow W125 filters air before it is exhausted outdoors to help meet environmental emission standards.

Isolation Areas
Infection control (e.g. tuberculosis) in hospitals and similar facilities demands the creation of under-pressure environments to reduce the spread of airborne microorganisms. The OutFlow W125 permits operation of the filter unit from within the isolation area, eliminating the danger of housing leakage into the surrounding area.

The OutFlow W125 kit easily modifies any IQAir filtration unit. Simply replace the top module of any standard IQAir filtration unit with the TopFlow adapter. All that is needed to install the ducting, wall tube and vent is a 5.2” opening in a wall or window. The OutFlow W125 kit also includes a damper and a protective mesh grille which prevents backdrafts and entry of coarse particles when the system is not in use. The large 5” diameter of the ducting ensures low air resistance, typically reducing the air flow of an IQAir filtration unit by only 10-30% (depending on the specific model and fan speed).

The aluminum duct may be freely flexed to allow control over the desired vent location. It is expandable in length from 10” in its original compressed state to 39” when fully extended.

Technical Specifications
- **Hole Diameter Required**: 5.2” (132 mm)
- **Wall tube length**: 4” (100 mm) & 6” (150 mm)
- **Flexible Aluminum Duct**: 5” (125 mm) diameter
  - Minimum bent radius: 10” (250 mm)
  - Adjustable length from 10” (250 mm) to 39” (1000 mm)
- **IQAir Compatibility**: Compatible with all IQAir filtration units & accessories.
IQAir® Additional Coarse Dust Pre-Filtration Kit: PF40

For further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
Each IQAir filtration device features a fine dust pre-filter. For environments with elevated levels of coarse dust, the PF40 kit can be added for superior coarse dust filtration. This helps to extend the life of the unit’s standard pre-filter element.

Quick to install, the PF40 kit consists of an upper grille which screws into the filtration device’s base. A synthetic coarse dust filter pad is held in place by a lower grille that is secured by four clips. The 1/2 inch deep non-woven design of the PF40 filter pad ensures superior coarse dust holding capacity.

The filter pad may be washed several times before it needs to be replaced.

### Technical Specifications

**Upper & Lower Grille**
Stainless steel

**Filter Pad**
Non-woven synthetic 1/2” thick filter pad
Filter area: 162 sq. inches
ASHRAE efficiency: approx. 40%

**IQAir Compatibility**
Compatible with all IQAir filtration units.
Not compatible with the FlexVac, MaxVac, VM FlexVac, InFlow W125 accessories.
The VM FlexVac captures fumes, dust and vapors at the source. It converts any IQAir filtration device into a wall-mounted, self-contained extraction-at-source system.
The VM FlexVac consists of a vertical mount fixture combined with a flexible extraction duct system. The suction duct of the VM FlexVac may be bent, twisted and turned into virtually any position and will remain in place until repositioned. It is made from shatterproof, chemically resistant polypropylene (PP). Its large 5” diameter ensures low pressure drop and exceptionally high suction volume. The VM FlexVac typically reduces the airflow of an IQAir filtration device by only 10-25% (depending on model and fan speed). At a typical airflow rate of 150 cfm the air velocity within the duct is approx. 12 mph or 17 ft/s.

The VM FlexVac is designed so that all filters remain fully serviceable while the IQAir filtration device remains wall mounted. A locking mechanism ensures that the air cleaner is safely secured within the wall mount.

The VM FlexVac kit is supplied with six universal wall plugs and screws suitable for concrete, brick and dry wall.

The remote control, which is supplied with each IQAir filtration device, ensures convenient operability even when the control panel is out of reach.

### Technical Specifications

**Vertical Mount**
- Material: 1/16” (1.5 mm) steel, white powder coated
- Measurements: H 23.6” x W 16.1” x D 15.2”
  (H 600 mm x W 410 mm x D 385 mm)  14.7 lbs. (6.7 kg)

**Suction Duct**
- Material: Interlocked polypropylene (PP), mint white
- Dimension: 5” (125 mm) diameter, 5’ (1500 mm) length
- Maximum horizontal reach: 4’ (1200 mm)
- Minimum bending radius at 25°C (72°F): 360 mm (14”)
- Service temperature range: -28 to 93°C (-13 to 180°F)

**IQAir Compatibility**
- Compatible with all IQAir filtration devices.
- Not compatible with the accessories PF40, MaxVac, FlexVac, InFlow W125 or Mobility 56.

The indoor air quality (IAQ) improvements that can be achieved with IQAir units depend not only on the system performance, but also on factors which are specific to the indoor environment, such as room size, type and concentration of contaminants and source intensity. Consult a qualified IAQ specialist to determine an effective and comprehensive IAQ strategy. Source control and ventilation should be considered first in solving any IAQ problem.

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VM FlexVac/USA/4799
For further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
The VMF kit allows you to mount an IQAir filtration device on virtually any structurally sound vertical surface. The VMF kit is compatible with all IQAir models and is designed to compliment the elegant IQAir look.

The vertical mounting of an IQAir unit may be desirable in areas where floor space is scarce or the unit would present an obstacle. The vertical mount may also improve the air cleaning performance of an IQAir device. Air pollutants with a rising flow pattern, such as tobacco smoke, are captured more quickly by positioning the device higher in the room.

Vertically mounting an IQAir unit emulates the effect of a fume hood. If directly mounted above an air pollution source, the IQAir filtration device helps to capture rising dust, fumes or vapors.

The VMF kit is designed so that all filters are fully serviceable while the IQAir filtration device remains wall mounted. The removable bottom grille allows easy filter replacement even when the PF40 coarse dust pre-filter accessory is used.

The VMF kit includes six universal wall plugs and screws suitable for concrete, brick or dry wall. The wide spread of the fixture points allows for optimum weight distribution on the wall. A locking mechanism ensures that the air filtration unit remains safely fixed in the wall mount.

The power cord is connectable to the air cleaner on either side of the vertical mount.

The remote control, which is supplied with each IQAir device, ensures convenient operability even when the control panel is out of reach.

The indoor air quality (IAQ) improvements that can be achieved with IQAir units depend not only on the system performance, but also on factors which are specific to the indoor environment, such as room size, type and concentration of contaminants and source intensity. Consult a qualified IAQ specialist to determine an effective and comprehensive IAQ strategy. Source control and ventilation should be considered first in solving any IAQ problem.

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Elevated Base Increases Mobility & Optimize Air Circulation

The Mobility 56 kit adds mobility to any IQAir® device. In addition, it optimizes air circulation patterns in any environment by raising the filtration unit's air intake.

No tools or assembly is required to attach the Mobility 56 base extension kit. Simply slide the base blocks into the filtration unit's base.

Two of the four casters can lock into place to prevent unintended movement.

If mobility is not required, the casters are easily removable.

Technical Specifications

- **Base Block Material**: PVC, dark grey
- **Height**:
  - Adds 4.25” with casters
  - Adds 2” without casters
- **Weight**: 5.5 lbs.
- **IQAir® Compatibility**: Compatible with all IQAir® filtration units. Not compatible with the MaxVac™, FlexVac™ and VM FlexVac™ accessories.

For further information:

BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
OVERVIEW
The PAS850 is a highly effective portable air cleaning system designed for use in hospitals and medical facilities. Containing the technologies recommended by the CDC and Health Canada for infection control applications, the PAS850-P can either exhaust air to create positive or negative pressure in high-risk areas, or clean and recirculates room air.

SPECIFICATIONS
DIMENSIONS
28W x 15D x 54"H with Negative Pressure Top
28W x 15D x 66"H with Recirculation Top

AIR FLOW
Full Variable Speed Control
Up to 850 cubic feet per minute at 120V/60 Hz
Up to 775 cubic feet per minute at 220V/50Hz

ELECTRICAL
115V/60hz/1 phase or 220V/50Hz/1 phase
8.8 Amps at 115V/60hz
Hospital Grade Plug (Green Dot)

TECHNOLOGY
Filters
PREFILTER: 12x24x4" Antimicrobial Pleat (30% ASHRAE)
HEPA FILTER: 12x24x11 1/2", High Capacity Certified 99.99% DOP, Metal Frame Sealed within PAS850 cabinet

Ultraviolet Germicidal irradiation
QUANTITY: Four 22" UV lamps
LOCATION: Directly before (on the dirty side) of the HEPA filter.

UV DOSAGE: 25,848 micro-watt sec/cm²

CONSTRUCTION
18 Gauge Powder Coated Steel with hinged door access to all components. Four heavy-duty 3" casters, two swivel with brake and two straight. Durable rubber handle for easy mobility and navigation. No tools required to change negative pressure to recirculation top.

SOUND LEVELS
High Speed: 63 dBA

Further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
OVERVIEW

The PAS500/900 product line is designed for use in hospitals, medical facilities, laboratories, and commercial areas for highly efficient particulate and pathogen removal. Containing the technologies recommended by the CDC and Health Canada for infection control applications, the PAS500/900 are used to clean HVAC supply air, create positive or negative pressure, or they can be ducted to clean and recirculate room air.

SPECIFICATIONS

DIMENSIONS

PAS500: 23 5/6 x 23 5/6 x 17"H
PAS900: 23 5/6 x 47 5/6 x 17"H

AIR FLOW

PAS500 Full Variable, High Speed: 500 cfm
PAS900 Full Variable, High Speed: 950 cfm

ELECTRICAL

115V/60Hz/1 phase or 220V/50Hz/1 phase
PAS500: 1.9 Amps at 115V/60Hz
PAS900: 3.8 Amps at 115V/60Hz

TECHNOLOGY

Filters

PAS500: 19 3/4 x 19 3/4 x 3 1/2" HEPA
Certified 99.99% DOP
Reverse Gel Seal, Metal Frame

PAS900: 19 3/4 x 43 3/4 x 3 1/2" HEPA
Certified 99.99% DOP
Reverse Gel Seal, Metal Frame

Ultraviolet Germicidal Irradiation
PAS500: Two 22" UV lamps
PAS900: Four 22" UV Lamps
UV Doseage: 13,220 micro-watt sec/cm2

CONSTRUCTION

14 gauge aluminum housing with room side access to all components

CONTROLS

Wall mounted in-room control box equipped with a full variable speed control, UV indicator light, digital HEPA monitor, and optional digital hour meter

Further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com
The IQAir® Dental Series

Professional Air Cleaning for Dental Environments

- Helps to protect dentists, dental staff and patients from harmful air pollutants
- Controls bacteria, viruses and drill aerosols
- Helps to implement infection control measures
- Reduces unpleasant odors
- Filters toxic mercury vapor
- Reduces exposure to disinfectant compounds
- Controls airborne latex allergens

& CERTIFIED
INDIVIDUALLY TESTED
Guaranteed Performance
Microbiological Air Contaminants

The air in a dental surgery acts as a carrier of a variety of microbiological particles. These contaminants are generated mainly during dental procedures. The use of high-speed drills and ultrasonic scaling equipment launches tiny moisture droplets that contain blood, saliva and filling particles into the air. These droplets are between 0.5 and 5 micrometers (µm) in diameter, and are light enough to stay airborne for hours. Bacteria and viruses which are contained in these micro-droplets are easily inhaled and constitute a potential source of infection to the dentist, dental staff and patients.

Mercury (Hg)

Numerous studies show that dentists and their staff have higher than average levels of inorganic mercury (Hg) in their blood and urine. Since mercury is odorless and transforms from solid to gas at room temperature, the dangers of chronic exposure to mercury can easily remain undetected. Mercury vapor is not only released and potentially inhaled when dental amalgam is placed, but also when these fillings are removed. The dental office itself can become a secondary source of mercury vapor exposure to dentists and staff. Over the years, mercury may have gotten into floors, cracks of chairs or sinks and may now continuously release mercury vapor into the room.

Disinfectants

Chemical disinfectants are being used in the dental practice to decontaminate hands, instruments and surfaces. Disinfectants that kill germs, viruses, and fungi spores often contain formaldehyde, glutaraldehyde or phenol. Aldehydes are well-known for their sensitizing potential and their inhalation toxicity. Exposure to aldehydes at low doses on a continuous basis may lead to chronic toxic effects, the symptoms of which are mostly unspecific (nausea, impairment of the memory, motivation, reactivity or dexterity). Even less toxic alcoholic compounds, such as ethanol, isopropanol, and n-propanol, can cause irritation of the respiratory tracts and the mucous membranes. An unpleasant disinfectant odor is often the only sign that unhealthy air pollutants are present.

Latex Allergens

The use of protective latex gloves can cause allergic reactions due to body contact or inhalation of latex allergens. These allergens adhere to the talcum powder particles of the glove and can thus become airborne.

X-Ray Development Chemicals

For the development of x-ray films several organic chemicals, such as glutaraldehyde, are being used. These chemicals give off gases that can contribute to the contamination of the ambient air in dental environments.
The IQAir Dental Series has been developed to specifically deal with airborne contaminants commonly found in dental environments. IQAir Dental Series air cleaners are available in two models: the IQAir Dental Hg FlexVac and the IQAir Dental Pro.

The IQAir Dental Hg FlexVac captures mercury vapor and drill aerosols right at the source. A flexible suction duct helps to remove harmful aerosols and mercury vapors close to the procedure area before they can be inhaled or dispersed in the ambient air. The unit’s outstanding ability to reduce room levels of mercury has been documented in a research report by the renowned Institute of Hygiene at the University of Heidelberg, Germany.

The IQAir Dental Pro cleans the air in a dental office by constant recirculation. Usually positioned in a room corner, the Dental Pro draws air in through the bottom arches, passes it through five filter stages and returns it cleaned to the dental office through the top diffuser. The Dental Pro is an all-purpose dental air cleaner designed to help remove VOCs, mercury vapor, formaldehyde, glutaraldehyde and many other gaseous contaminants and odors.

The final filter stage of both IQAir Dental models consists of a high-efficiency post-filter which traps even the smallest of particles including bacteria and viruses.
Model Overview

IQAir Dental Hg FlexVac
The mobile source-capture system has a flexible, self-supporting suction arm. To be positioned close to the patients' head, it is designed to filter:
- Mercury vapor
- Drill aerosols
- Dust particles
- Bacteria
- Viruses

IQAir Dental Pro
The mobile recirculating air cleaning system was specially developed to filter those gases and particulates found in dental office air:
- VOCs
- Bacteria
- Viruses
- Formaldehyde, glutaraldehyde
- Disinfectant vapors
- Mercury vapor
- Dust particles
- Odors

IQAir®-The Choice of Hospitals and Laboratories

The advanced nature of the IQAir product line is documented in numerous patents which have been granted or are pending in the United States, Europe and Asia. These patents cover the revolutionary modular housing design, filter design and the sophisticated control panel which allows the detailed programming of the IQAir to suit your requirements.

Hospital infection control units, laboratories and classroom facilities around the world rely on IQAir to maintain their air quality requirements.

Swiss Precision & Quality

Every IQAir system is an example of Swiss precision-engineering, superior craftsmanship and the result of ongoing research and development. With a 40-year history, IQAir has the experience and expertise to build the best value for money air cleaning devices and to provide specialized filtration solutions for even the most challenging indoor applications.

Contact your Authorized IQAir Dental Dealer:

For further information:
BERRIMAN ASSOCIATES
1-800-480-3630
www.berriman.com

The indoor air quality (IAQ) improvements that can be achieved with IQAir devices depend not only on the system performance, but also on factors which are specific to that particular indoor environment, such as room size, type and concentration of contaminants and sources, occupancy, etc. Consult a qualified IAQ specialist to determine an effective and comprehensive IAQ strategy. Source control and ventilation should be considered first in solving any IAQ problem.

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