

Mobile Direct Source Capture Accessory: **FlexVac™**



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, odours and dust particles directly at the air pollution source.

Since the *FlexVac* kit is compatible with any IQAir main filtration unit, the system can easily be configured to capture contaminants generated by processes in a wide variety of

applications and environments including:

- Laboratories
- Hospitals
- Nail Salons
- Quality Control
- Pharmaceutical Industry
- Assembly and Finishing
- Soldering / Electronics
- Research & Development

Mobile Extraction-At-Source Kit for IQAir® Filter Systems

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 worker exposure.

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

- Reach
- Maneuverability
- Stability
- Suction power
- Durability
- Expandability
- Easy Maintenance

Exceptional Reach

The flexible suction duct has a unique interlock construction that can be extended by pulling and compressed by pushing it back together. This gives the *FlexVac* mobile source capture kit a horizontal reach of up to 2100 mm (7') and a vertical reach of up to 2800 mm (9').

Exceptional Maneuverability

The mobility of the *FlexVac* kit is ensured by six casters, of which two are lockable. The flexible suction duct can be manually bent, twisted and turned into virtually any position and will remain in place until repositioned. Its minimum bend radius is 360 mm (14").

Exceptional Stability

Maximum stability is achieved when the suction duct is positioned in its compressed state. The overall stability of the flexible suction arm is superior to that of conventional suction ducts.

Exceptional Suction Power

The *FlexVac* kit has exceptional direct source capture power for a system of its reach. This is

due to the 125 mm (5") diameter of the suction duct and the internal ducts connecting the suction duct 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 250 m³/h (167 cfm) the air velocity in the arm is approx. 20 km/h (12.5 mph).

Exceptional Durability

All *FlexVac* components are designed for outstanding durability. The flexible suction duct is made from interlocking, shatterproof and chemically resistant polypropylene (PP). It has flame retardant characteristics, resists abrasion and withstands temperatures from -28 bis 93°C (-13 to 180°F). The support column is made from powder coated steel. The base platform is made from solid 30 mm (1.25") PVC plates.

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.

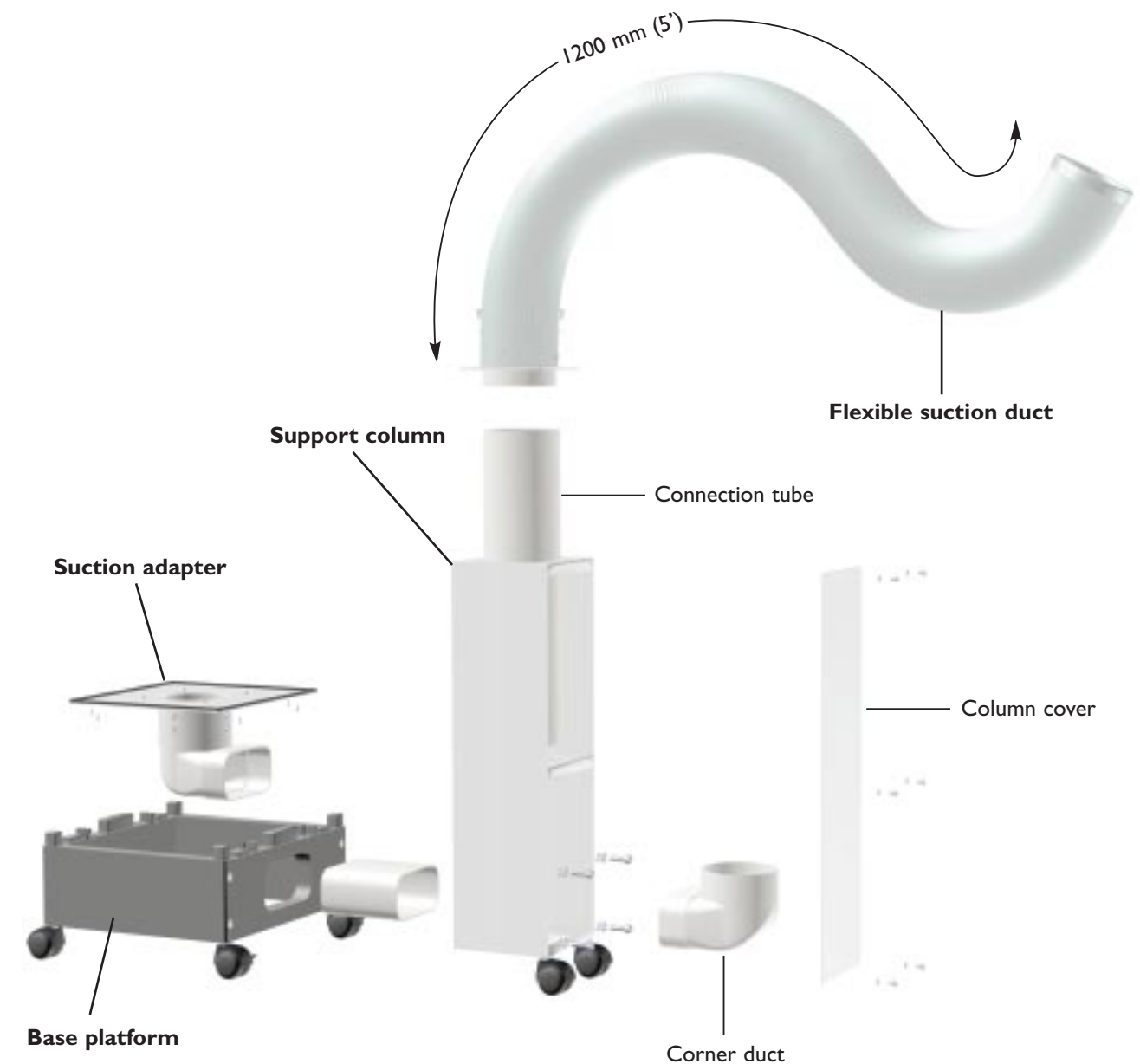
Ease of Use

Due to its self-contained design the IQAir extraction system requires no venting or ducting. 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 flexible suction duct and the internal ducting are minimal since support structures are not located internally. The *FlexVac* kit is easily dismantled for cleaning.

Component Overview



The four main parts of the FlexVac kit:

Suction Adapter

- Screws to the base of the air filtration unit to allow internal ducting.

Base Platform

- Slides onto the unit's base. Enables ducting to connect to the suction adapter and holds support column in place.

Support Column

- Leads internal ducting and supports flexible suction duct.

Flexible Suction Duct

- 125 mm (5") internal diameter, 1500 mm (5') long flexible polypropylene (PP) plastic suction duct.

Technical Specifications

Typical IQAir Unit Air Flow Reduction
10-30% (depending on model and fan speed)

Typical Suction Velocity
Approx. 20 km/h - 5.5 m/s (12.5 mph - 18 ft/s) at air flow of 250 m³/h (167 cfm)

Suction Adapter
Material: powder-coated steel with PVC

Base Platform
Material: solid PVC

Support Column & Column Cover
Material: steel, white powder-coated

Flexible Suction Duct

- **Material**
Interlocked polypropylene (PP)
Compressed length: 1500 mm (5').
Extended length: 2500 mm (8').
- **Horizontal Reach (from unit center)**
Normal: 1800 mm (6')
Maximum: 2100 mm (7')
- **Vertical Reach (from floor)**
Normal: 2400 mm (8')
Maximum: 2800 mm (9')
- **Minimum Bending Radius**
360 mm (14") at 25°C (72°F)
- **Temperature Range**
-28 to 93°C (-13 to 180°F)

IQAir Compatibility
Compatible with all IQAir filtration devices.
Not compatible with PF40, VM FlexVac,
Mobility 56 and InFlow WI25 accessories.

Environments & Applications

Healthcare Industry

- Laser surgery
- Acupuncture
- Disinfectant control
- Mercury vapour control

Plastics Industry

- Plastic welding
- Injection moulding
- Gluing
- Laser cutting

Chemical & Pharmaceutical Industry

- Chemical compound control
- Powder dust control

Laboratories

- Chemical compound control

Nail Salons & Printing workshops

- Solvent control

Computer & Electronic Industry

- Hand soldering
- Wave soldering
- Dedrossing
- Laser marking

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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