

FlexVac™

Mobile Direct Source Capture Kit



Airborne contamination in the form of gases, fumes, vapours, aerosols and dust is a serious problem affecting many working environments in electronic, chemical, pharmaceutical, healthcare, manufacturing and other industries. Capturing these pollutants directly at the source is by far the most effective way to reduce the risk of human exposure or contamination of the surrounding areas.

The FlexVac kit converts any IQAir compact stand-alone filtration device into a mobile, self-contained source capture system. The flexible FlexAir™ seduction duct can be positioned precisely to capture gases, fumes, vapours, odours, dust particles and microorganisms directly at the source.

Since the FlexVac kit can be fitted to all IQAir compact models, it can be used to capture a wide range of contaminants generated in a wide variety of applications including:

Applications

Healthcare

- Laser surgery
- Mercury vapour control
- Chemical compound control
- Powder dust control
- Infection control
- Dental surgeries and labs

Manufacturing

- Plastic welding
- Injection molding
- Gluing
- Laser cutting
- Solvent control
- Dust control

Computer & Electronic

- Hand soldering
- Wave soldering
- Dedrossing
- Laser marking
- Dust control
- Odour control

Features and Benefits

The FlexVac kit converts any IQAir compact stand-alone filtration system into a mobile, self-contained extraction system for the capture and filtration of gases, fumes, vapours, odours and dust particles at their point of origin. The features of the FlexVac kit include:

- exceptional suction power
- long reach
- flexibility and energy savings
- effortless and precise positioning
- easy maneuverability
- exceptional durability
- easy assembly and maintenance

Powerful Suction

The FlexVac kit offers exceptional suction power for a system of its size and reach. Adding a FlexVac source capture kit to an IQAir compact stand-alone filtration system typically reduces its airflow by only 10-30% (depending on model and fan speed). At a typical airflow of 250 m³/h the air velocity in the suction duct is approx. 5 m/s.

Exceptional Reach

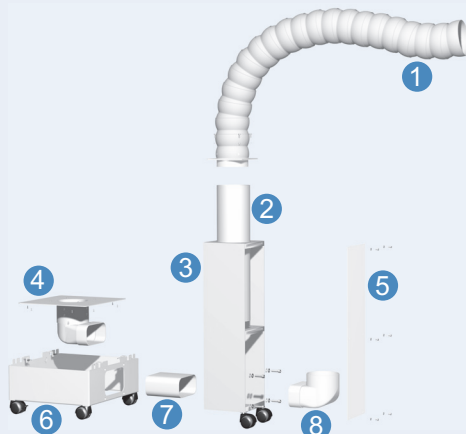
The FlexVac kit features the unique FlexAir multisegment self-supporting suction duct which allows a horizontal reach of 1.35 m (from the center of the IQAir system) and a vertical reach of 1.95 m (from floor level). If additional reach is required, the FlexAir duct can be simply extended by adding further duct segments (available separately in segments of 0.3 m).

Precise Positioning

The multi-segmented flexible suction duct consists of 20 interlocking elements which allow the duct to be bent and twisted into virtually every desired position. The rigidity and pressure fit of the sections makes the duct self-supporting and ensures that it remains in place until repositioned.

Component Overview

1. FlexAir™ Suction duct
2. Connection tube
3. Support column
4. Suction adapter
5. Column cover
6. Base platform
7. Square extension duct
8. Corner duct



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 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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Easy Maneuverability

The quick deployment and effortless positioning of the FlexVac system is ensured by six casters, two of which are lockable. (Note: If a wall-mounted source capture system is preferred, the VM FlexVac kit is available for secure fitting of the IQAir system to vertical surfaces).

Durability

All FlexVac components are designed to provide outstanding performance and durability. The FlexAir duct is made of shatterproof and chemically resistant copolymer (POM) and withstands temperatures from -25°C to 80°C. The support column and base platform are made from scratch-resistant powder coated steel.

Flexibility and Energy Savings

Due to its self-contained design the IQAir FlexVac requires no venting or ducting to the outdoors. This makes the system completely mobile, saves energy and expensive building conversions.

Easy Assembly and Maintenance

Assembly of the FlexVac kit takes about 30 minutes and all required tools are supplied. After use 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.

Technical Specifications

Suction Adapter

Material: powder-coated steel with PVC

Base Platform

Material: powder-coated steel

Support Column & Column Cover

Material: powder-coated steel

FlexAir™ Suction Duct

Material: POM plastic

Typical Suction Velocity

Approx. 5 m/s at airflow of 250 m³/h

Horizontal Reach

(from center of system)

Length: 135 cm

Vertical Reach (from floor)

Length: 195 cm

Minimum Bend Radius

ca. 28 cm

Temperature Range

-25 to 80°C

IQAir Compatibility

Compatible with all IQAir compact stand-alone filtration devices. Not compatible with the following IQAir accessories PF40, Mobility 56, InFlow W125 and the VMF.


First in Air Quality