FREQUENTLY ASKED QUESTIONS

What is the difference between HEPA filtration and ULPA filtration?

HEPA filters (high efficiency particulate air) remove 99.99% of particles down to 0.3 micron versus an ULPA filter (ultra low particulate air) removes 99.9995% of particles at minimum penetrating particle size (MPPS).

How many air changes per hour can I achieve with Guardiair?

The number of air changes per hour is driven by the cubic feet of air in the room and the Guardiair set speed. As an example, a 10' x 20' conference room with an 8' ceiling is 1,600 cubic feet. One Guardiair on high at 600 cfm x 60 mins. = 36,000 cubic feet per hour. 36,000 / 1,600 = 22.5 ACH. Multiple units may be required to circulate air through the filter.

How frequently should we change the prefilter and HEPA filter?

Guardiair is equipped with an indicator light that flips from green to red when it is time to change the HEPA or ULPA filter. To extend the life of your filter, routinely check and change out the Merv 8 prefilter on a monthly basis and adjust as needed for your specific environment.

How much does the Guardiair weigh and how does it ship?

The unit weighs 124 lbs and the units are crated and shipped via common carrier. Special shipping arrangements can be made when liftgates are required. Minimal assembly is required.

Why use a germicidal UV-C light?

UV-C adds an additional element of safety by killing or inactivating microorganisms such as bacteria, viruses, molds, and other pathogens.

Is Guardiair available in other colors?

Guardiair is currently available in six standard colors and custom color matches are available for quantities of 50 or more. A custom color match fee may apply.

What is the lead time for fabrication?

Our current production time is four to six weeks depending on the size of the order.

What is the Guardiair made of?

Guardiair has a 14 gauge steel bottom support and the remainder of the unit is 16 gauge steel.

What is a gel seal (GS) filter and how quickly can they be replaced?

Gel seal (GS) filters are easily replaced and feature an upstream gel channel on the final filter which provides a leak-free seal between the filter and housing. We stock these filters and they typically ship within one to two days.

Why use a Merv 8 prefilter versus a higher rate Merv prefilter?

A Merv 8 prefilter is less expensive than the higher rated prefilters and will be regularly replaced to protect the more efficient HEPA filter.

Does the filter emit a disinfectant?

No, the Guardiair provides HEPA filtered air and does not emit a chemical disinfectant or odor into the air. There may be a "new car smell" but that goes away.

What is the difference between Guardiair and the HEPA units sold online or at retail chains?

Guardiair utilizes proven industrial motor blower assemblies utilized in cleanrooms for over 30 years. This product is intended to run 24 hours a day, seven days a week lasting several years. They are designed to move over 600 cubic feet per minute.

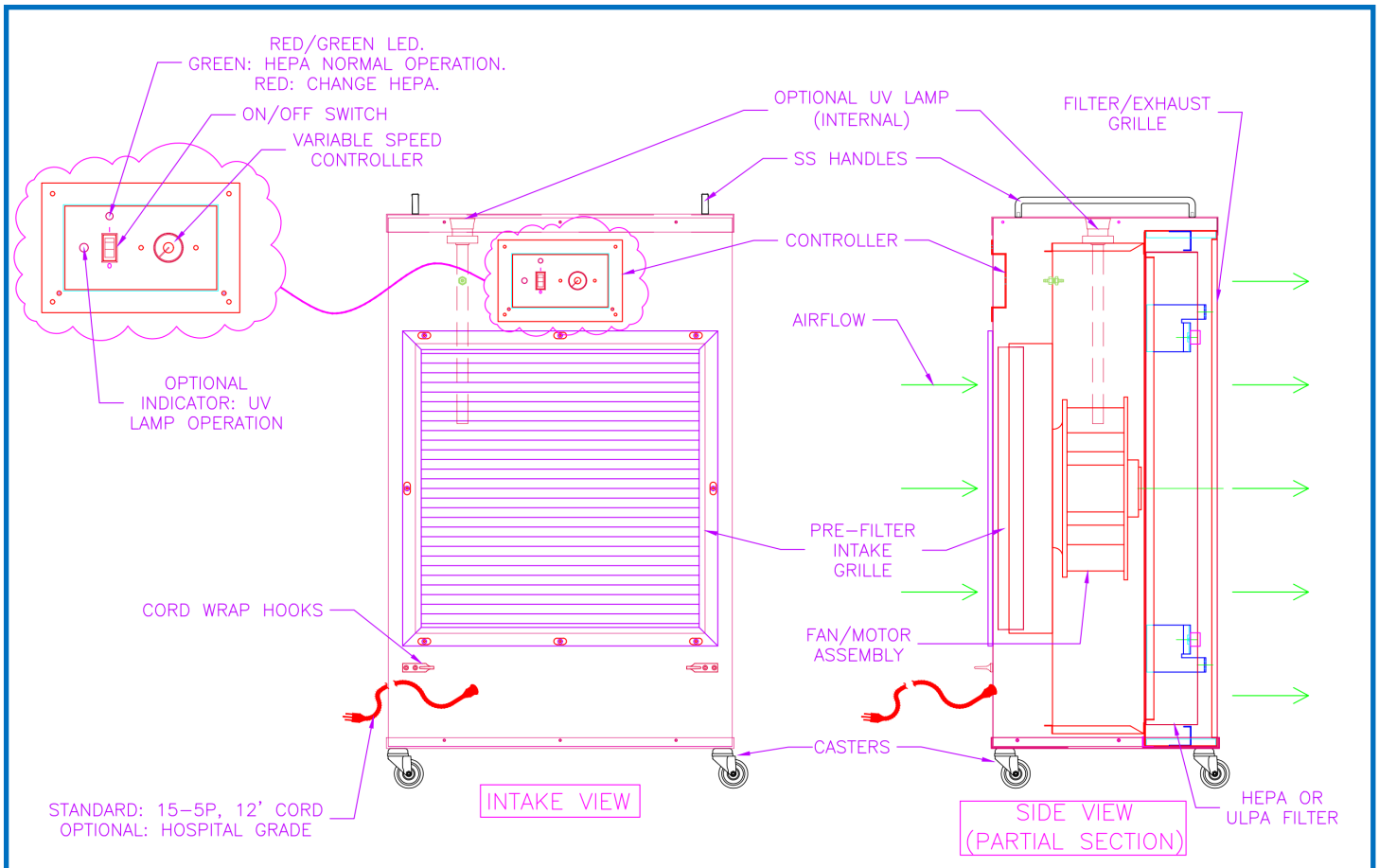### Will Guardiair provide a cleanroom classified environment?

The short answer is, no, cleanrooms are a different environment than offices, schools and retail environments. They are specifically designed with materials and air flows to minimize particle generation. The largest contaminator in a cleanroom is actually people. Guardiair uses cleanroom technology to provide recirculated HEPA or ULPA filtered air at an industrial level.

Powerful, mobile, and trustworthy air filtration

PERFORMANCE DATA

Setting	RPM	CFM	AMPS	WATTS	DB
100%	1680	660	1.75	197	64
90%	1536	600	1.75	179	60
80%	1400	520	1.77	177	58
70%	1267	435	1.81	169	56
60%	1145	350	1.82	163	55
50%	1053	310	1.75	154	54
40%	955	285	1.72	148	52
30%	835	225	1.63	131	50

DETAILS

RED/GREEN LED.
GREEN: HEPA NORMAL OPERATION.
RED: CHANGE HEPA.

ON/OFF SWITCH

VARIABLE SPEED CONTROLLER

OPTIONAL INDICATOR: UV LAMP OPERATION

OPTIONAL UV LAMP (INTERNAL)

SS HANDLES

CONTROLLER

AIRFLOW

PRE-FILTER INTAKE GRILLE

FAN/MOTOR ASSEMBLY

CORD WRAP HOOKS

STANDARD: 15-5P, 12' CORD
OPTIONAL: HOSPITAL GRADE

INTAKE VIEW

CASTERS

FILTER/EXHAUST GRILLE

HEPA OR ULPA FILTER

SIDE VIEW (PARTIAL SECTION)

Guard*iair* ™

EASY TO SPECIFY & CONFIGURE

How do I configure a mobile Guardiair with an ULPA filter, germicidal lamp, and in Innovation White?
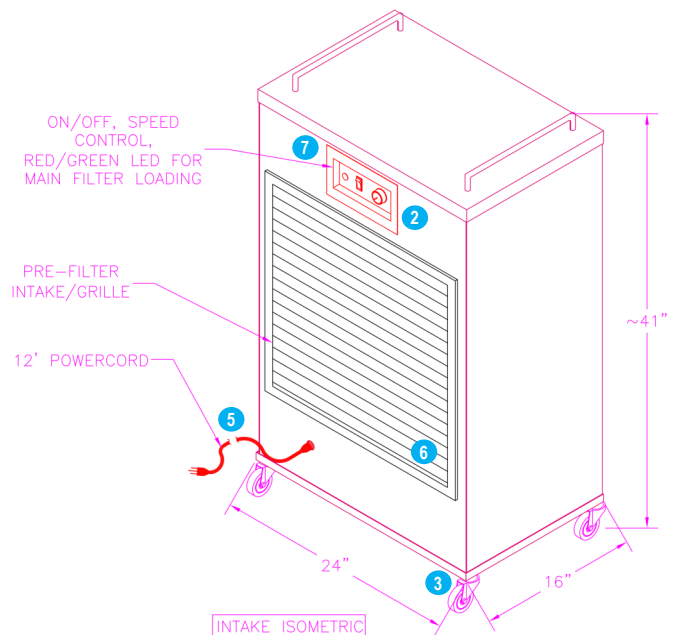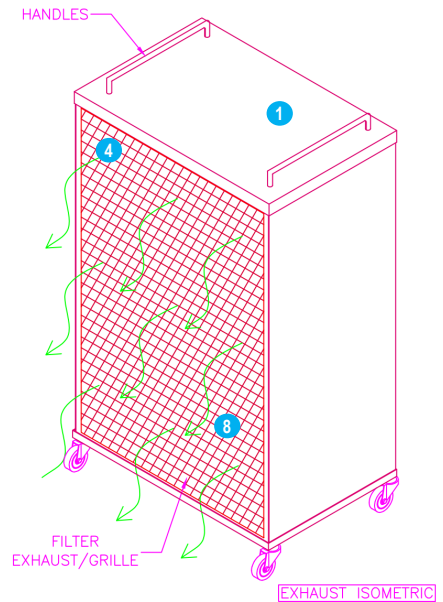
Step One: Pick your P/N: 16504

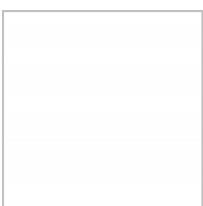**Step Two:** Pick your filter HEPA or ULPA: 16504-U-

Step Three: Add a UV-C germicidal lamp or not: 16504-U-19578

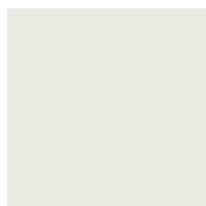**Step Four:** Pick your finish color: 16504-U-19578-02

1 **Guardiair** (2' x 3' mobile unit)

    P/N 16504 - 120v

2 **Variable Speed Control**

3 **Casters with Brakes**

4 **Perforated Aluminum Face Screen**

5 **Power Cord**

6 **Merv 8 Prefilter**

7 **Pilot Light for Filter Change**

8 **Filter:**

    (H) Gel Seal HEPA - 99.99% @0.3 Micron (Standard)

    (U) Gel Seal ULPA - 99.9995% @ MPPS (Optional)

9 **Accessories:**

    UV-C Germicidal Light (P/N 19578)

10 **Finish:**

    (01) Cleanroom White

    (02) Innovation White

    (03) Tech Gray

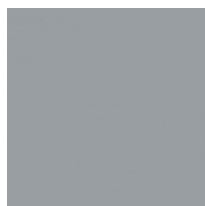   (04) Space Gray

    (05) Navigator Blue

    (06) Nano Black

HANDLES

FILTER EXHAUST/GRILLE

EXHAUST ISOMETRIC

ON/OFF, SPEED CONTROL, RED/GREEN LED FOR MAIN FILTER LOADING

PRE-FILTER INTAKE/GRILLE

12' POWERCORD

~41"

24"

16"

INTAKE ISOMETRIC

FINISHES

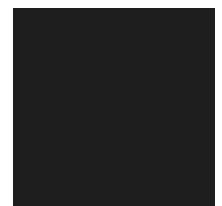(01) Cleanroom White   (02) Innovation White   (03) Tech Gray   (04) Space Gray   (05) Navigator Blue   (06) Nano Black