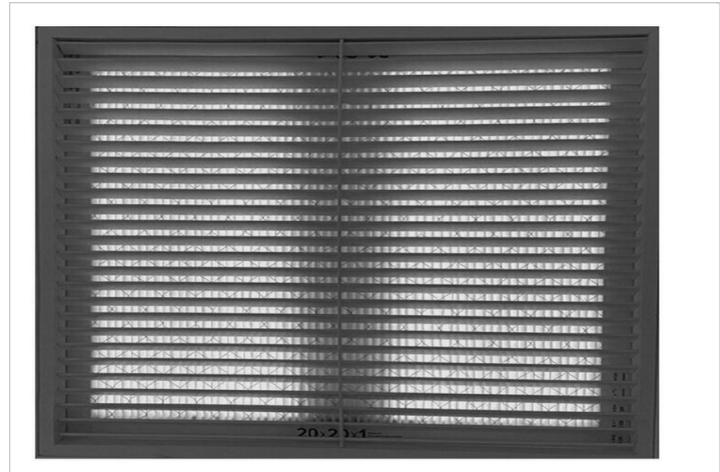


## Overview

- We have over 30 years of environmental engineering experience, which has led to the development of our “Blu Breeze” air return system. Grille System consists of Merv-13 Air Filter, UV-C (Germicidal) Lamp and integral UV-C Chamber. Blu Breeze is designed to create the healthiest indoor air space possible for room occupants. UL1995 USA Approved for Heating and Cooling Equipment CSA Canada C22.2 No.236-15 Approved for Heating and Cooling Equipment
- Hampton Aire is dedicated to the wellness of people in our indoor environments. Our expertise has led to the development of Blu Breeze, a return Air Filter, UV-C, Grille System that is designed to create the healthiest indoor air space possible.



Ordering Format

PART NUMBER: HABB-

Size
2x2 Plenum = 36W-2x2-M13-W PI
2x2 Duct = 36W-2x2-M13-W DI

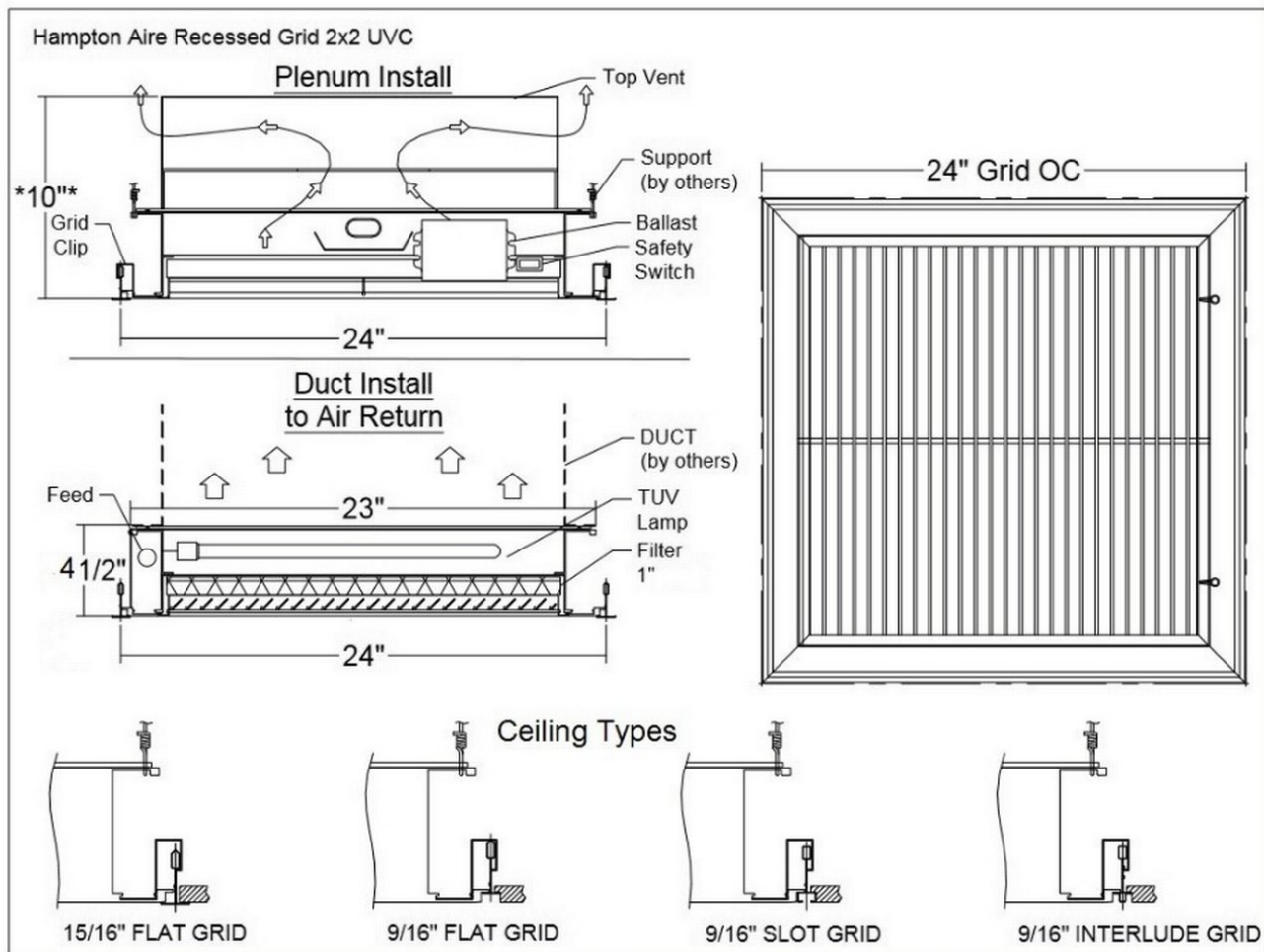
NOTES

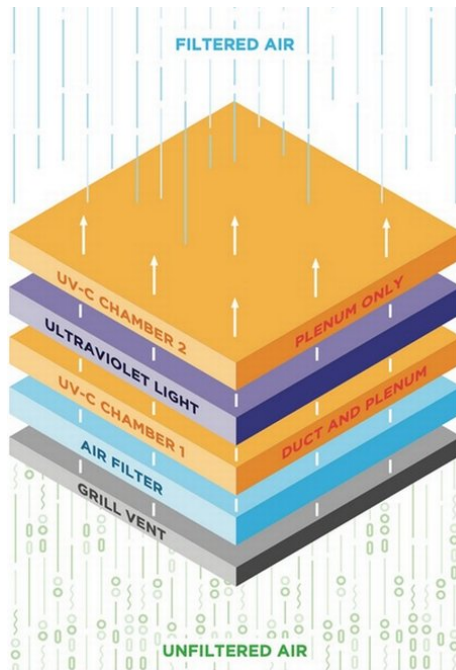
ORDER NUMBER:

## Construction & Mounting

### HOUSING

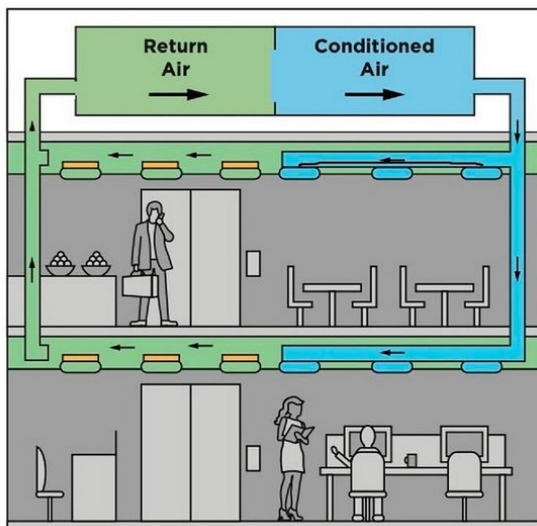
Blu Breeze cleans the air as it exits the room and before entering the HVAC's fan heating and cooling components central system. Blu Breeze easily retrofits into any existing 2' x 2' air return grill keeping disruptions and installation costs to a minimum. Custom grills available, please contact the factory. Replace installed MERV-13 filter every 3 months. Replace installed UV-C Light after every 10,000 hours of operation. Nominal Airflow: 400 to 1000 cubic ft/min Dimensions: Duct 24"L x 24"W x 4 1/2"H (non-insulated) Dimensions: Plenum 24"L x 24"W x 10"H (non-insulated) MERV-13 Pleated Filter 20" x 20" x 1" 36-Watt UV-C light (ozone free) Standard 110 - 277 volt operation Made in the USA with UL recognized components "Buy America" qualified. Patent Pending North America UL1995, CSA C22.2 No. 236-15. Approved for HEATING AND COOLING EQUIPMENT





The ultraviolet light kills microbes and deactivates harmful viruses.

The air filter keeps ducts, coils, and air handlers clean from harmful droplets.



Orange Rectangle = Blu Breeze Unit Location

## Plenum Return

Installation is a breeze...just replace the old return grille with our Blu Breeze unit, and bring 120v/277v power to the unit.

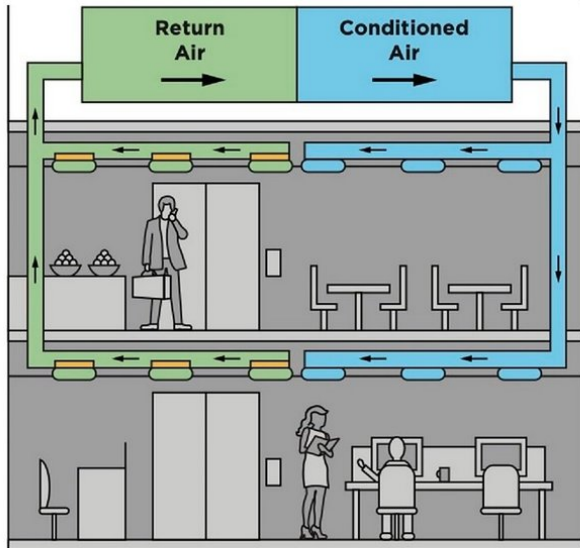
Infected air is drawn thru our Blu Breeze unit and it is disinfected with the air filter and the UV-C lamp. Two layers, one product working together to bring you cooled or heated air, that's clean.

## Plenum HVAC Systems

# Blu Breeze

## HEALTHCARE APPLICATIONS

## TYPE PROJECT



 Blu Breeze Unit Location

## Duct HVAC Systems

Installation is a breeze...just replace the old return grille with our Blu Breeze unit, reconnect the return duct, and bring 120v/277v power to the unit.

Infected air is drawn thru our Blu Breeze unit and it is disinfected with the air filter and the UV-C lamp. Two layers, one product working together to bring you cooled or heated air, that's clean.

## Electrical / Driver

- 36V 120v/277v Universal Ballast

## LED Performance

LED Output	CCT Color Temp	Watts	Lumens	Lumens per Watt	CCT Multiplier
Not LED but 36V UV-C Ozone Free	NA	NA	NA	NA	NA

## Certifications & Warranties

- What's the goal, or end game? Basically, the Hampton Aire- Blu Breeze decontamination process reduces the concentration of contaminants in the air we breathe in an efficient and environmentally friendly manner. The Hampton Aire Blu Breeze system has been thoroughly designed and engineered to provide ease of installation and servicing. "Caveat Emptor", buyer be aware. Manufacturers of UV-C light treatment products falsely claim that their products can disinfect, sterilize, or decontaminate facilities. The peer-reviewed evidence clearly shows that they cannot and do not meet the minimum Federal standards for disinfection, and sterilization alone. The performance requirement for decontamination is also not met because it requires a 6-log reduction in 10 minutes, no manufacture today can claim a log 6 reduction in 10 minutes. A log reduction is a representation of cleanliness. (Log 6 is 99.999% clean) "Look for UL-1995 approved products to help ensure you are protecting people from harmful UV radiation." UV-C does aid in disrupting and inactivating microorganisms. UV-C causes cellular damage by inducing changes in the chemical structure of DNA chains. A study that a 1-S exposure to UVC light (1.93 MJ/CM2) was sufficient to induce 100% inhibition of growth. UV-C dose cannot be measured directly, it only can be inferred. There are very sophisticated programs to calculate the lamp sizes and in-air dose requirements in terms of energy required for space and radiant fluency (joules per square meter, J/m2) across a cross-section of a UV-C beam. There is a much simpler evidence-based dose that has been developed over many years for TB control, typically specified as approximately 17 mW of 254-nm lamp-emission radiant power per cubic meter (m3) of space to disinfect air. Although this sounds too simplistic to be true, since air in any room is always moving, one can correctly assume that all air will be treated—the better the air mixing, the sooner this will happen. Studies at the Harvard School of Public Health show log units of reduction equivalent to 24 ACH to achieve 80% reduction of transmission. Of course, 100% reduction is not possible and this is why indoor spaces are not fully disinfected, sterilized, or decontaminated. Studies conducted by the U.S. Environmental Protection Agency (EPA) show that indoor environments may have levels of pollutants that are actually higher than levels found outdoors. Most Americans spend up to 90% of their time indoors. ASHRAE COVID-19 guidance states; filters need to be MERV 13 or better for recirculated air for increased ventilation, improved filtration, and/or air cleaning technologies. UV-C technology disrupts a microorganism's DNA, triggering a chain reaction that leads to cellular death. "Germicidal ultraviolet technology has been around for 100 years and has had good success," says Jim Malley, PhD, a professor of civil and environmental engineering at the University of New Hampshire. Hospitals have been using it for years to cut down on the spread of drug-resistant super-bugs and to disinfect surgical suites. Inactivation of microorganisms by UV-C is a function of the dose of radiation, which is determined by the intensity (irradiance) of radiation and time.



# Blu Breeze

## HEALTHCARE APPLICATIONS

TYPE  
PROJECT

Note: Picasso lighting industries, LLC reserves the right to make any design changes which will not affect the overall appearance or performance of the product. All ceilings to be adequately reinforced by others. All fixtures to be wired by licensed electrician only. The information contained herein is the sole property of Picasso Lighting Industries, LLC and may not be used without prior written consent of Picasso Lighting Industries, LLC. The 'USGBC member logo' is a trademark owned by the U.S. Green building council and is used by permission. The logo signifies only that Picasso Lighting Industries, LLC is a USGBC member; USGBC does not review, certify, or endorse the products or services offered by its members.