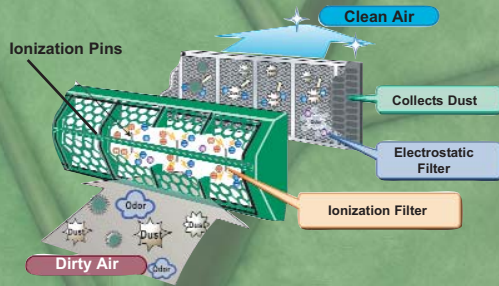


How does the plasma filter work?



The plasma filter contains a super-charged negative ionization filter, which attach to oxygen molecules to create “charged air” or ozone, and a positive charged electrostatic filter. The combination ionizes airborne contaminants, neutralizing them to provide clean temperature-controlled air. Most contaminants which are not destroyed by ionization are trapped by the electrostatic filter.

What purifies the air?

Ozone is an oxygen molecule which contains three oxygen atoms instead of two. Unstable ozone reacts with contaminants to revert back to its stable oxygen state reducing concentrations of ozone quickly. When ozone contacts something “oxidizable” the extra oxygen atom releases from the ozone molecule and binds with the contaminant. What remains is the pure and stable oxygen molecule. When most contaminants are oxidized some residual ozone may remain but most is collected by the electrostatic and charcoal deodorizing filter.



Purification in your everyday life

Drink soda or bottled water today?

Ozone is one of the most powerful oxidants available for potable water disinfection. Used in the majority of European and Canadian water plants since the 1940's, due to its oxidation properties, lack of residual, and its taste and odor control abilities when properly applied. Ozone in bottled water provides disinfection of both the water and the bottle used by Pepsi and Coca-Cola plants.

Use a hair dryer this morning?

Many new hair dryers incorporate ozone technology. Ozone technology aids the fixing of hair dye molecules by helping to bond the color to the hairs structure, thus keeping color treated hair looking vibrant for longer. It drastically reduces the effect of static electricity on the hair by utilizing Ozone's unique molecular structure.

Use a hand dryer today?

Yes even the hand dryer that you use in many public restrooms. It disinfects while it dries your hands.

Eat farm raised fish today?

Many farm raised fish swim in ozone infused tanks. Ozone improves water quality, allows for faster growth rates, decreases mortality rates, and destroys organics while remaining safe for fish. For example, MinAqua Fish Farm raises 1.7 million lbs of Talapia per year. Fish are sold live across the US and Canada.



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FUJITSU DUCTLESS AIR CONDITIONERS
USE PLASMA FILTRATION TO PURIFY THE
AIR INSIDE YOUR HOME.



Fujitsu ductless air conditioners provide you and your family with "pure air".

Electronic plasma air filter



Your family's health is important to you. You make sure everyone goes for regular doctor check ups, takes vitamins, eats right and exercises. You should also be concerned about the air they breathe while inside your home. No matter how often you clean your home, it is still filled with a variety of airborne irritants such as odors, dust, smoke, pollen and allergens. Health effects from indoor air pollutants may be experienced soon after exposure or, possibly, years later.

Many of Fujitsu's wall mounted systems provide innovative solutions for clean, temperature-controlled indoor air. Halcyon IAQ systems include an electronic plasma filter which removes airborne irritants, odors and allergens.



WHY IS OZONE USED?

Ozone can be used for a broad area of purification. For the biggest part ozone is applied in the municipal water treatment plants for disinfection. In the food industry for example ozone is used for disinfecting packaging and equipment. The main benefit of ozone is its clean character, because it only oxidizes contaminants, with forming byproducts. Ozone can be detected in very low concentrations and therefore, it is generally safe to work with ozone.

Ozone, when used properly, can be very beneficial.

Electrical sparks which create ozone may occur inside the home in any equipment which uses high voltage or ultraviolet light. Indoor devices that produce ozone include hair dryers, laser printers, copy machines, computers and fax machines.

For example, a laser printer can produce around 0.05 ppm ozone or even higher, depending on usage and ventilation.



Government Ozone Limitations

	.00	.02	.04	.06	.08	.10	
OSHA	█	█	█	█	█	█	Occupational Safety and Health Administration requires that workers not be exposed to an avg concentration of more than 0.10 ppm for 8 hours.
NIOSH	█	█	█	█	█	█	National Institute of Occupational Safety and Health recommends an upper limit of .10 ppm, not to be exceeded at any time.
EPA	█	█	█	█	█	█	Environmental Protection Agency's National Ambient Air Quality Standard for ozone is a maximum 8 hour avg outdoor concentration of .08 ppm
FDA	█	█	█	█	█	█	Food and Drug Administration recommends a limit of .05 ppm of ozone in indoor air.
Average Outdoor	█	█	█	█	█	█	Natural concentrations can vary between .01 to .05 ppm, depending on geographic location, altitude and season.
Average Indoor	█	█	█	█	█	█	Ambient indoor ozone levels are generally much lower than outdoor ozone levels (around 30% of outdoor levels). - EPA.
Fujitsu Plasma Filter	█	█	█	█	█	█	Air discharge- .02ppm (low fan speed)
Fujitsu Room Concentration	█	█	█	█	█	█	Room (Approximately 360cm x 360cm) - .01ppm