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How Big Buildings Circulate Air?

By Thomas Yoon

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How do big shopping complexes, offices and commercial buildings cool their indoor space?

For big buildings, we need big cooling capacities. Central air-conditioning systems using chillers are used. Chilled water is the most convenient way to collect the heat from the indoor spaces. We just need pipes. Miles and miles of them.

Chilled water from the chillers is about 44 degree Fahrenheit (about 7 deg C). In order for the room heat to be transferred to the water efficiently, the air in the room is circulated through tubes containing flowing chilled water.

That is the main function of the air handling unit in a central air-conditioning chilled water system.

Another function of an air handling unit is to clean the air. It does this by filtration.

A most basic air handling unit, or AHU, contains a fan, a cooling coil, and an air filter enclosed in a box-like structure.

Normally, air contains moisture. When air is passed through the cooling coils, water usually condenses out at the surfaces of the coils. Collection pans are installed below the cooling coils to collect any condensed water. This water is removed through drain pipes.

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The whole box–like enclosure is heat insulated to prevent condensation at their surfaces. Many enclosures are sound insulated and are installed on vibration damping pads. Many others have damper vanes for controlling the air flow.

The most common AHU's have their fans and motors enclosed inside the box. Other specialized AHU's have motors outside the box. There are some with steam coils too.

They can be made in numerous configurations too. Tall, short, wide, long, supply up, supply to side, and so on....

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Many years of working experience in Marine, Facilities, Construction has given the author material for writing e–books and articles related to engineering, and management.

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Reasons For Purchasing Air Purifiers

By Barney Garcia

A good air purifier helps in purifying the contaminated air by freeing the air from pollutants. People living in a congested home and locality usually live in contaminated air. Environmental studies have revealed that the air inside the house is dirtier than the air outside. Air purifiers are extremely beneficial for people suffering from allergies and asthma. Dust, pollen, pet dander and molds are some of the allergy inducing particles. A home air purifier not only effectively removes these harmful particles, but also provides protection against hazardous smoke particles and airborne gases. The air purifiers convert the dirty and contaminated air into clean air and provide protection against second hand smoke.

Air purifiers alleviate asthma, and some completely removes the allergens causing asthma by providing superior quality air. By reducing the dust floating in the air, filtering second hand smoke, and purifying the air of chemical pollutants, car exhaust fumes or other contaminants, air purifiers improves the living condition of asthma sufferers. Even little children, especially newborn babies and old people, suffer respiratory disorders due to the bad condition of the air we breathe. Bacteria, viruses and other

How Big Buildings Circulate Air?

types of microorganisms cause pneumonia and tuberculosis, and sometimes certain diseases that may lead to death if not treated properly.

An air purifier reduces and sometimes eliminates contaminants in the air. Different techniques like filters, absorbents like charcoal, and electrostatic charges are used. The ionic air purifier is the newest type of cleaning device to make your home germfree. Other types of air purifiers are air purifiers with HEPA air filters. The additional setups include germicidal UV light and the emission of ions into the air to react with contaminants, making them harmless enough to breathe. The cost of filters and how many times you will need to replace them should be well researched before buying them.

Air purifiers will help purify the air in your vehicle. Vacuum your vehicle regularly as the seats can harbor dust mites, insect parts, pollen, molds, and pet dander. When the conditioner is on, always circulate the air rather than pulling it from outside. A good air purifier can reduce all kinds of irritants and allergens, and circulate clean air throughout the car. The quality of your sleep and health can be improved by using a good air purifier. Air purifiers are used in many restaurants and other business houses, which allow smoking, to improve the air quality and keep it clean and fresh.

Barney Garcia writes about many different topics. His air purifier and allergy relief websites –>
and



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