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Roof Air Ventilation and Industrial Ventilation for the industries by [Mayank Gandhi](#)

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With the advent of summer its blistering heat is proving harmful to all things living and non-living. Especially in enclosed spaces such as factories where hundreds of people are packed in their workstations sweating it out. With the blazing sun overhead one cannot even think about going outside in this weather, but it is even more unbearable to stay indoors in this sweltering heat. The heat also affects the structure of the buildings as well, most commonly, the roof. Hot air from the machines travels up towards the roof, where they condense and form moisture. This moisture first affects the metal used in the construction of the roof. Wood is also used in the construction of roofs these days. Plywood being the most common form of shelter used, it deteriorates rapidly due to the condensation of water on it. There is also fear of mildew, which is a fast-growing fungus well-known for causing health problems. To take care of these problems and more factories use Roof Air Ventilators. Roof Air Ventilators help clear these problems by equalizing the air both outside and inside the roof. They lower the cost of energy by removing the excess moisture that gets trapped in the roofs, thus removing excess heat.

Similarly, machines used in factories also require cooling after a certain period of time. Small machines, such as a laptop or a desktop computer have cooling systems built into their hardware to bring the temperature of the fast-spinning hard drives down. But this system of air ventilation and cooling cannot be used in industries on larger machines. In the case of large-scale industries or factories, machines under unconditioned ventilation are susceptible to the formation of moisture in them. This in turn causes mould problems such as mildew which is harmful to the workers. Heat from the machines gets easily trapped in the water vapour which increases emission of energy from the machines. The emissions also occur in the form of poisonous chemical fumes which are harmful to the workers. Thus the air around the machines in industries is contaminated and failure to remove these contaminants causes more exposure to the chemicals. To take care of this problem, factories use Industrial Ventilators. Industrial ventilators are being used in factories to reduce the carbon-emissions as well as to remove excess chemical fumes that are ejected by the machines. Industrial ventilation also enables factories to reduce worker exposure to toxic chemicals and is very beneficial.

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