VENTILATION SYSTEMS

Ventilators are used to establish the ventilation system effectively. In industrial and commercial buildings, it is necessary to use ventilators to remove the smoke, heat and steam from space. Only depending on the ideal outside weather conditions, natural ventilation of the spaces without the use of ventilators can rarely give positive results since the ideal external conditions occur rarely. The fresh air in the outdoor environment can only be directed into the space with the help of a suitable wind. In addition, if the outdoor air temperature is not lower than the indoor air temperature, the heated and polluted indoor air cannot be ensured to leave the building. Accordingly, the effect of the natural ventilation process will be minimized when the air is hot and stagnant. However, ventilation of the spaces is essential in such cases. The effect of natural ventilation will also constantly vary with changes in wind direction and may possibly lose its effect due to wind blocked by neighboring structures. Apart from these, the possibility of effectively controlling the dusts and odors present in the air entering the space will never be realized. In order to maintain the air conditions at a suitable standard, in most cases, the use of ventilators is necessary for ventilation purpose. For this purpose, one of the three methods are employed:

1- Ventilation by absorbing and evacuating the air from inside the space or expelling it,

2- Ventilation by directing the air into the space by blowing,

3- The joint application of both methods above.

Each method has some benefits and advantages. Depending on the application, any of these three methods can be preferred. The selection of the most suitable system for a building often depends on the size and shape of the space and the extent to which dust, odors and temperature within the space are desired to be controlled.

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