

of public buildings, offices, factories, etc., that have to be run through the winter, and if ventilation is necessary in the summer, surely it is quite as necessary in the winter, and while it is possible to get a circulation of air by an exhaust system in the summer time by putting in what we term an exhaust fan to exhaust the warm air out of the building, as the days grow colder—especially in our climate—the exhaust fan must be closed down, consequently the so-called ventilating system is shut down, for the place would get so cold that the occupants would be unable to endure it.

It would seem from the foregoing that what proves to be a temporary help through the summer months is little if any use during the rest of the year, and it is for this reason that we recommend and endeavor to install a system that will serve the purpose of ventilation throughout the whole year and, as we go along and gain knowledge and experience, we feel that it is only safe to recommend the very best system possible—that is, one where it is possible for a building to be all closed up save an opening to admit of fresh air into the building and an opening to allow the foul air to escape. In the downtown districts of our cities, or in locations where there is any amount of dust or smoke in the atmosphere, it is usually considered necessary to install an air washer. This is very desirable, first because it saves a great deal in the cleaning of a building and the fixtures therein, saves decorations, and is certainly much to be desired by the occupants.

Modern ventilation, you will see, is quite an up-to-date subject when we consider that the air can be taken from the outside of a building and mechanically delivered in any quantity to any space in a building when desired. The air can be warmed to the temperature desired; if it is dusty or foul air it can be purified and, in summer time, if it is very warm outside, it can be cooled and delivered to the inside of the building.

A few years ago if a customer called upon us for a fan to do a certain amount of ventilating we did not hesitate to offer him just an ordinary exhaust fan, something that could be placed at the top of a window or a hole in the wall with a motor attached to a fan, or have it driven by a pulley and belt from a line shaft close at hand, and, when running, we felt that we had accomplished something. How different it is at the present time; in fact, you will all be interested perhaps in hearing of one incident of a few years ago when a large manufacturer in this city, who employs from 400 to 600 hands in a large factory with a building already heated by direct radiation, called upon us with a view to purchasing a fan or so to exhaust the foul and vitiated air from off their work floors. The writer called upon the parties and was turned