

Importance of clean air in Hospitals

Most of the people visiting hospital in search of cure from temporary health disorders, chronic ailments and surgical requirements. There is increasing trend of people visiting hospital for preventive health checkups needs. In hospital the staff, inpatients and visitors are subjected to infectious environment, larger in numbers are patients suffering from various diseases.

Air quality is a huge factor when it comes to ensuring standards of hygiene, safety, and comfort are met, which is where its importance to have perfect air conditioning design and clean environment in place. The hospital design segregates inpatient and visitor traffic but still there are limitations when it comes to consult in OPDS and waiting areas where it is challenge to have such controls. We have implemented measures to prevent risk of hospital acquired infection and the design includes factors like dedicated air handling unit per section, positive pressure in sterile zones with respect to adjacent areas, Air movement, and mandatory fresh air changes per hour, comfortable temperature and humidity control as per requirement in various areas of hospital.

Infectious & immunocompromised care sections are isolated with provision of negative/ positive pressure zones as per requirement, 100% air is exhausted from these areas. The risk of cross contamination increase if air is not being filtered properly and then air conditioning components like ducting becomes breeding ground for bacteria that can circulate into patient care areas. It necessitates to have regular Air temperature monitoring, quality checks for air sterility, Air duct cleaning at periodic intervals with help of robotic arm and to ensure consistent clean environment. Dr LH Hiranandani hospital HVAC is designed with reference to guidelines from ASHRAE /ISHRAE, ISO, NABH and BEE. The hospital air conditioning is installed with three stage filtration units having High efficiency particulate filters, microbial and pre filtration for sterile areas, laminar flow units, air purifiers, UV lights and to minimize water born bacterial risk use of disinfectant treatment to cooling tower water.

The better efficiency of indoor air quality, clean environment and natural lighting do have positive impact on increase efficiency of staff, shorten the healing periods and control in reducing allergies and asthma preventive aspects to greater extent. Most of our customers have Experience the difference and visitors do complement us for this unique quality atmosphere.

