



BASX
SOLUTIONS

**HEALTHCARE
INDUSTRY**

INNOVATE.DESIGN.MANUFACTURE





Heating, cooling, and air quality are standard necessities for any building. However, in hospital, lab or pharmaceutical settings, clean conditioned air is vital to the health and safety of patients and staff who are far more exposed to impurities and at risk of contagious diseases. Controlled ventilation and air distribution is key for airborne disease prevention. Infection control is important to both patients and staff to prevent unnecessary transmission of diseases and avoidance of serious liabilities to hospitals.

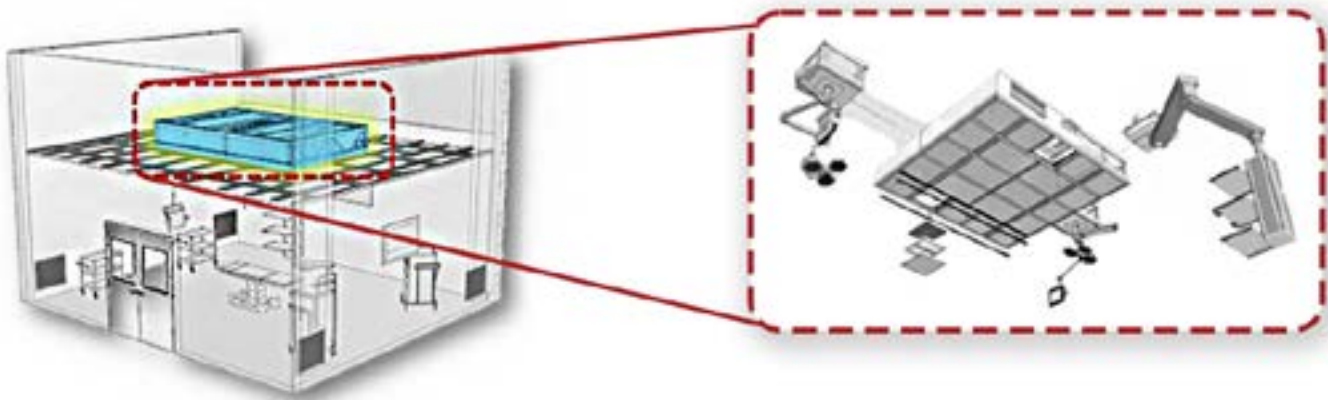
Key Factors:

- Temperature
- Humidity
- Air filtration
- Air distribution
- Hazardous Exhaust of non sterile air



Accurate control of these factors all contribute in diminishing the risk of communicable diseases and provides superior patient safety. Proper air control is the first step in creating that kind of secure environment. In addition, each healthcare space is slightly different than the next creating the need for facility specific designs and custom air solutions. Nothing is more important within healthcare settings than to prevent and control the spread of infections.

Health care facilities today face a very serious and new challenge with the advent of pandemic viruses. The care environment must be designed to handle incoming infected patients, protect staff and non-infected individuals, and prevent cross contamination from room to room. This is especially true for at risk patients and in surgical rooms where exposure is high.



iOR Diffusion System

BASX iOR surgical room diffusers are designed with architects, MEP contractors, surgeons and most importantly patients in mind. Benefits of the integrated modular design include 50-70% reduction of install time, integrated lights, boom mounts, air balance, and patient safety by reducing risk of HAIs from improved laminar air over operating table.



BASX Boom Mount

Why BASX Solutions

BASX owners, senior management and engineers have a long standing cleanroom history including patenting the first true flush laminar air cleanroom sealing system that continues to be the basis of design for semiconductor, pharma, and now surgical suites. The staff of BASX Solutions pioneered the revolution of surgical theaters by taking the same basic cleanroom designs used for years and incorporated into hospitals. Operating rooms must operate with strict temperature, humidity, filtration and room pressure set points for surgery processes. HVAC systems within hospitals must be reliable and easy to maintain in order to protect staff and patients alike.

Design considerations must take into account varying conditions and zones within hospitals using customized controls geared for preventing and spread of infectious diseases.

Areas of varying requirements:

- Operation
- Isolation
- Lab testing
- Imaging
- Medical storage

HVAC and air quality is one of the most expensive operational costs to hospitals. Energy along with air quality must be balanced. Different methods of conserving energy can be implemented using a variety of systems to economize air and water and attempt to recover energy in the most efficient way.



Based on levels of importance and capacity for individual facilities, designs can be custom built to accommodate energy conservation and efficiency. Choosing the right equipment through customization can have very short payback periods. Contrary, off-the-shelf equipment may be at the sacrifice of performance and low cost on-going operation expense. BASX is the right company to turn to with highly experienced HVAC engineers to design systems to unique requirements.