Why humidify?... For Hospitals

Balanced Air Hydration Optimizes the Patient Experience and Maximizes Revenue for Hospitals and Healthcare Facilities

- Reduce healthcare associated infections
- Decrease patient length-of-stay
- Improve quality care metrics
- Decrease readmission rates
- Maximize revenue

Humidification and Evaporative Cooling
Improve patient experience and maximize revenue with balanced air hydration

The hospital environment requires carefully managed indoor air quality to ensure effective patient care and optimal patient outcomes. Balanced air hydration has a long list of benefits for hospitals and healthcare facilities, including reduced healthcare associated infections (HAIs), improved patient outcomes, improved quality care metrics, decreased readmission rates and decreased length-of-stay. Perhaps counter intuitively, modern air hydration technologies also offer significant cost savings in facility operations, thereby improving energy efficiency and further maximizing revenue.

**Reduce Healthcare Associated Infections (HAIs)**

Studies show that at least 9% of patients acquire a new infection, called a HAI, while in the hospital. Research also suggests that 15% to 30% of infectious microbes within hospitals can be transmitted by air. Unless this airborne route of contagion is addressed, contact precautions such as hand hygiene will never achieve optimal infection prevention. Clearly, this has significant impacts on a hospital’s ability to treat patients.

Hospitals require balanced air hydration in order to effectively control and suppress airborne bacteria and viruses.

When people talk, cough and sneeze they continually emit droplets carrying the normal bacterial and viral microbes which reside in their mouth and upper respiratory tract. If the person is sick, these droplets also carry disease-causing microbes, called pathogens. In a dry environment, these expelled droplets shrink dramatically to become tiny particle-like droplets called droplet nuclei. Droplet nuclei can circulate for days, infecting other patients at great distances from the initial patient.

The implementation of an effective indoor air hydration system limits the drying and shrinking of expelled droplets, allowing larger droplets to settle rapidly and thereby reducing the airborne spread of infectious microbes.

**Improve Patient Outcomes**

Hospitalized patients are usually in a weakened state from their illness, injury or surgery and are already vulnerable to catching viral and bacterial infections. Dry indoor air is especially dangerous to patients for two reasons; first, the dry air makes it easier for pathogens to spread through the air as discussed above. Second, dry air impairs patients’ primary defenses to these airborne germs. Hydrated mucous respiratory membranes and healthy skin are patients’ natural barriers against infectious microbes. In a dry environment, these protective barriers become compromised and less effective at preventing infections from airborne pathogen invasion. For these reasons, proper indoor air hydration supports their natural immune defenses and boosts their healing speed and potential.

**Improve Quality Care Metrics and Hospital Report Card Scores**

Preventative actions and measures to keep patients from returning to the hospital after discharge have become an increasingly important metric in measuring healthcare facility performance.
In order for a hospital to meet industry performance standards, clinical care must support patients’ long-term health above all else.

Ensuring proper air hydration levels throughout your facility supports positive patient outcomes, which has a significant impact on the facility’s performance when it comes time for industry evaluations.

**Decrease Readmission Rates**

The goal of the hospital is to provide patients with short-term, high-level care when needed, and then to support their continued recovery at home. With more and more facilities running at maximum capacity, efficient in-patient care and safe discharges are integral to ensuring that hospital resources are available for new patients. Ensuring a safe healthcare facility environment through air hydration is just one of the ways you can support optimal patient healing and decrease HAIs that often lead to rapid readmissions.

**Decrease LOS (Length-of-Stay)**

An increasingly important metrics in healthcare facility performance is length-of-stay. With the demand for beds in hospitals at an all-time high and medical costs staggering, efficient treatment and avoidance of wasted resources is integral to ensuring patients’ access to quality care and hospital fiscal survival.

**Reduce Energy Consumption and Cost of Operations**

As of December 2016 (ASHRAE 170), hospitals are now authorized to implement adiabatic air hydration systems.

These new air hydration technologies offer significant energy and cost reduction for healthcare facilities, in part due to a more streamlined, high-efficiency system, as well as the additional adiabatic cooling benefits that lessen the load on your current operations.

With the year-over-year cost savings, the installation of a higher efficiency air hydration system makes a significant impact on facility revenue.

Balanced air hydration has a long list of benefits for hospitals and healthcare facilities including reduced healthcare associated infections (HAIs).
Effective humidity control creates a long list of benefits for hospitals and patient care:

- Reduce spread of infections in hospitals (HAIs)
- Improve patient outcomes
- Improve quality care metrics and hospital report care scores
- Decrease length-of-stay and readmission rates
- Reduce energy consumption

Condair manufactures a comprehensive range of air hydration and evaporative cooling systems for healthcare facilities. Condair’s humidification engineers are equipped to provide the most effective solution to meet the needs of every environment. Contact us today and ensure you have the best humidification solution for your healthcare facility.