



Humidified Air Shows Dramatic Impact on Patient Health

CASE STUDY Residential Care Facilities





When Diane Leonard learned that they were going to add humidifiers to the nursing home where she works, she never imagined the difference it could make.

“I knew humidity was important to the health of our residents,” says Diane, Assistant Administrator at The Middletown Home in Pennsylvania. “But I remember thinking ‘how good can it be?’”

Within a few months of increasing the humidity levels in the home, Diane says that she could feel the difference. “It was the first winter at the home where I didn’t have a constant dry, sore throat,” says Diane. The impact on residents has also been dramatic – with far fewer respiratory infections, as well as fewer skin tears due to dry skin. “There just seems to be less sickness overall, among residents and staff,” says Diane.

Middletown sees value in new humidification system

A skilled nursing facility that houses more than 100 residents, Middletown made the decision to add

humidifiers as part of a project to update their thirty-year-old heating and cooling system. They were looking to be more energy-efficient, to have more control over the temperature in the building, and to create a more comfortable environment for their residents. The project included adding four new air exchangers, cleaning out the ducts and adding a steam humidification system.

The safest and most cost-effective solution for the building... Condair SETC.

The local Condair agent in Lancaster, Pennsylvania, worked with the owner and staff at Middletown, and a local contractor to come up with the safest and most cost-effective solution for the building. Middletown wanted to use the steam being generated by their boiler but there were concerns about the potential for chemicals from the boiler to be released into the air. Together they decided on the Condair SETC Steam

Exchange humidifiers – a “steam-to-steam” solution that uses the steam from the boiler to feed the SE heat exchanger to boil clean water, creating atmospheric steam that is then discharged into the home.

Added humidity makes life better for residents and staff

Dry nose, cracked itchy skin, and sore throats are just some of the many side effects of living in an environment that is low in humidity. New research from the Oregon Department of Health Services has also demonstrated that the right levels of humidity can reduce and prevent against harmful bacteria and respiratory infections. Optimal humidity levels for good health are between 40% and 60%.

Correct humidity levels can reduce and prevent the spread of respiratory infections.

After adding the humidification system, Middletown’s humidity levels went from an average of 20% to between 40% and 45%, and the impact on residents was almost instantly noticeable. Skin tears went down an average of 50% in the first 3 months compared

to the same period the year before, and respiratory conditions including colds and sinusitis were almost non-existent. “Keeping residents healthy and more comfortable improves their quality of life,” says Nicole Brandt, a registered nurse and Infection Preventionist at the home. “Healthy residents are more social and able to participate in more activities. It makes them physically and mentally healthier, and happier.”

Nursing home operators praise Condair agent for outstanding service

When Middletown decided to add humidification to their heating and cooling system, they turned to Condair agent, Ron Zaritzky. “Ron really knows

his stuff,” says Joel Frank, Maintenance Supervisor for the home. “And he worked right alongside our project team to make sure the humidification system was installed correctly and everything was running smoothly.”

Ron recommended Condair because they are the leader in the humidification industry. “Condair has the experience and they offer many options so that I can tailor the solution to each of my customers,” says Ron. He adds that Condair’s ability to provide technical support for the installation is also key. “When you are going to the expense of putting in a new heating and cooling system, you want to know that you are choosing a company that will be there to support you.”

Better air quality means better business

Making the investment in Condair’s humidification system makes good business sense for The Middletown Home, who has been able to substantially reduce the amount of illness among residents. “The Health Department makes it mandatory for hospitals to maintain certain humidity levels, but there are no rules for nursing homes,” says Joel Frank. “So we decided it was up to us to create a healthier environment for our residents. Seeing them up and around, and less bed ridden, has made the investment well worth it.”

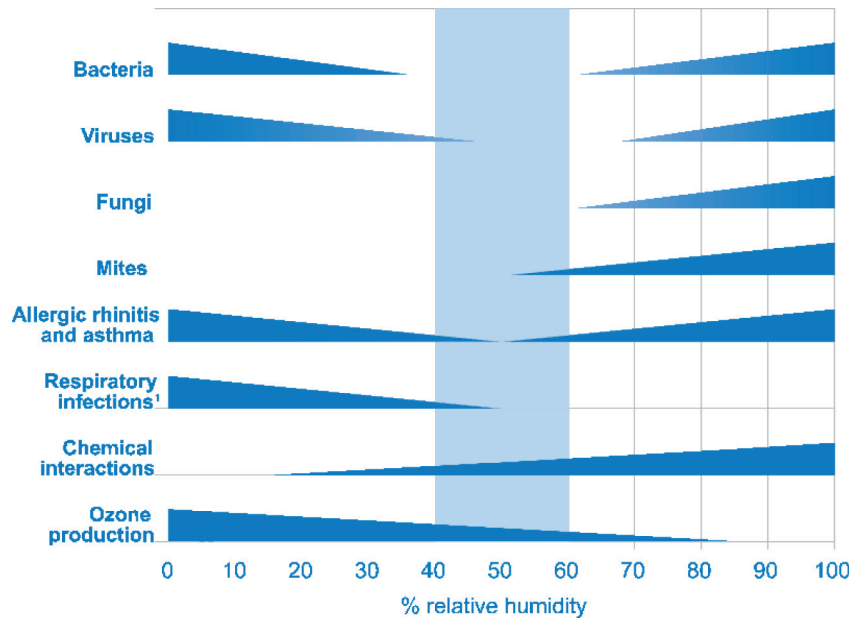


Condair’s SETC Humidifier

The Sterling Chart

The Sterling Chart illustrates how relative humidity affects health and well being and shows that the optimal air humidity level for humans is between 40 to 60% RH. This optimal humidity zone minimises risks to human health from biological contaminants and pathogens.

Colds, viruses, respiratory infections, dry eyes, itchy and cracked skin are all symptoms that are usually prevalent in the cold dry months of the winter when the indoor RH is at its lowest.



¹Insufficient data about 50% RH.

E.M. Sterling, Criteria for Human Exposure to Humidity in Occupied Buildings, 1985 ASHRAE.

Why Condair?

Condair specializes in the design and production of superior humidification systems. We create the most appropriate solutions to meet your specific needs in the most efficient and cost effective way. To this end, we draw upon our extensive experience to develop an ever growing range of products manufactured to our stringent ISO 9001:2015 certified quality standards that will provide our customers with maximum reliability, minimum maintenance and a choice of energy sources.

When you choose Condair products, you are choosing a company that has built a reputation for superior quality humidification systems. Condair is also the only humidifier company to manufacturer a complete range of solutions including electric steam, subsonic fogging, high pressure fogging, evaporative media, direct steam injection, steam exchange and gas-fired technologies.

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