



DOGGIE DAYCARE GROWS BUSINESS BY MAKING ANIMAL WELFARE A PRIORITY



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“We do everything possible to safeguard the health and safety of our guests,” says pet daycare owner Josh Donahue, who recently added hospital-grade, infection-control fixtures throughout his family’s 5,000-square-foot facility.

“If animals get sick under our watch, no one will care a lick about our outstanding care and years of industry expertise,” says Josh who, together with his wife Mandy, opened Audrey’s Barkyard in November 2017 in suburban Wake Forest, North Carolina. “A sick pet means we’ve broken our customer’s bond-of-trust and lost any hope of future referrals that drive 90 percent of our business.”

So, when they learned the business could affordably incorporate protection against airborne pathogens, the couple jumped at the chance to offer this extra safeguard—both for the animals and their community reputation. Mandy explains that in some sense, pet care is about providing owners with the peace of mind that their animal will be treated like family.

“We already had a pretty extensive nightly sterilization routine, where we apply a hospital grade disinfectant on kennels, floors, yard and surfaces,” she recalls of their premier pet boarding, daycare and grooming facility. “But so many diseases are spread through the air, Josh and I quickly realized there was a gap in our infection-control strategy — we needed a means of killing the bacteria in the air.”

Germicidal Treatment

The couple turned to Jess Kota with Clark Air Systems for recommendations on how to supplement the pet care’s existing disinfection procedures. Kota recommended the use of ultraviolet germicidal irradiation (UVGI or UV-C) technology that uses short-

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wavelength ultraviolet energy—similar to sun rays—to kill or inactivate airborne and surface-bound microbes.

Kota suggested two separate means of applying UV-C technology in order to ensure the greatest practical control of microbes and airborne microorganisms: 1) upper-room UV-C disinfection units in pet common areas and the building lobby, and 2) UV-C fixtures in the building’s HVAC supply air units to clean airstreams and cooling coils.

While ultraviolet technology (or electromagnetic energy in the 254-nm UV-C band) has been used by hospitals since the 1930s to control airborne infectious diseases, its application in animal boarding and daycare facilities is

rare, according to Mandy.

After examining the pet care facility and routine activities, Kota specified six wall-mounted upper-room UV-C fixtures that reduce airborne microorganisms near a room’s ceiling. The high-output GLO™ UV fixtures create an intense zone of invisible germicidal irradiation, while baffles on the fixture ensure no harmful UV irradiation reaches the lower occupied space. Then, as natural convection or mechanical air currents lift the airborne infectious agents into the room’s upper air region, they are exposed to the UV-C wavelength, which breaks the bacteria or virus DNA chain rendering them incapable of reproducing.

In addition to treating the building’s upper-room air, Kota also recommended adding germicidal fixtures to its HVAC system, where infectious agents can multiply year-round and allow viral agents to remain viable for much longer periods.



Above: GLO Upper Air Unit

Kota addressed these areas by installing two, Hornet™ UV-C fixtures in each of the pet care facility's three HVAC air handlers to destroy microbes in supply air and on cooling coils, drain and duct surfaces.

Both units, available from Santa Clarita, California based UV Resources, are designed to efficiently inactivate airborne-transmitted pathogens, as well as destroy surface microbes and degrade organic materials that impede HVAC system efficiency. In addition to inactivating pathogens on HVAC surfaces, installing the Hornet in an air handler, Kota notes, can kill up to 35 percent of infectious agents moving through the air.

Reducing Disease Transmission

Like most facilities, Audrey's Barkyard requires clients to be up to date with pet vaccinations, including those covering rabies, distemper and Bordetella (commonly called "kennel cough"). While vaccines can lessen the severity or prevent certain diseases altogether, Josh acknowledges the ease which airborne pathogens can be spread from animal to animal — a bit like how the common cold is spread among children in elementary schools.

"Animals can acquire some upper respiratory infections by simply passing one another on the sidewalk, yet symptoms may not appear up to five days," continues Mandy. "That means animals can spread a disease before anyone knows they are contagious and, more

importantly, before anyone can take preventative precautions."

Staff at Audrey's Barkyard were already using a medical-grade, broad-spectrum disinfectant on all animal equipment and facility surfaces (counters, walls, fixtures and floors). However, for bacterial strains that are spread via air, the UV-C technology would limit the ability for germs to infect multiple animals.

Josh points to a recent case in which a dog developed kennel cough after returning home from four days of boarding. Despite close contact with 40-50 other dogs, there were no reports of other dogs getting sick after interacting with the highly contagious pet. This, he says, is the significant value of the germicidal technology: the ability to limit the spread of contagious diseases and bacteria.

Below: Two Hornet UV-C Fixtures installed in-duct



Containing Disease Outbreaks

During peak enrollment periods at the facility—typically during holidays and school vacations—up to 80 animals can be in close contact, providing an opportunity for cross contamination.

"Because of the extended

incubation period for some of these diseases, facility operators may not even know about a problem until a customer calls to alert us to a potential problem," states Mandy. "Without a layered infection control strategy, large-scale outbreaks can quickly spread and take weeks before the contagion is completely eliminated."

In addition to safe safeguarding animals, the added infection control procedures also offer pet owners confidence in their choice to entrust their pet to Audrey's Barkyard. Like the facility's four webcams where parents can see and check in on their pets, the additional infection-control measures are another competitive advantage, Josh believes. In the age of YELP and Facebook, poor reviews and word-of-mouth can make or break a local business, especially in a close-knit community where residents routinely look to social media for business endorsements.

