



www.ThermalEQ.com

Thermal Equipment Sales, Inc.

HVAC Manufacturer's Representatives

ASK US HOW OUR PRODUCTS CAN HELP REDUCE THE TRANSMISSION OF COVID-19 THROUGH THE BUILT ENVIRONMENT

Thermal Equipment Sales would like to present you with some of our technologies that may be effective in preventing the spread of COVID-19. Unfortunately, the newness of this pathogen means that there is very limited access to test data or a testable pathogen. However, while testing has not been able to be proven specific to COVID-19, research suggests that these technologies and strategies below may be effective against the virus. These products and strategies include *UV-C lights, bi-polar ionization, humidifiers, airflow measurement, room pressurization, air filtration, and dedicated outside air systems.*

Please reach out if you would like to schedule a webinar presentation or if you have any questions about how we may be able to assist you in this time of uncertainty!



UV RESOURCES: UV-C Lights

- ◆ Kills all known-microorganisms including bacteria, viruses, molds, and other pathogens - even antibiotic-resistant superbugs.
- ◆ Improves airflow and heat exchange efficiency by eliminating 90% of growth on HVAC coils.
- ◆ Effective in killing other varieties of coronaviruses, such as MERS and SARS.
- ◆ ASHRAE states that it can kill 90% or more of all microorganisms living on HVAC air ducts and evaporator coils.
- ◆ Upper-room germicidal fixtures can inactivate microbes in under a second – including measles, mumps, TB, and cold viruses.
- ◆ Has been in use for over 100 years and was invented to combat influenza and tuberculosis.
- ◆ <http://www.uvresources.com/>

LEXINGTON
LOUISVILLE
PADUCAH

680 Bizzell Drive, Lexington KY 40510
13151 Middletown Industrial Boulevard, Louisville KY 40223
115 Eaglet Cove, Paducah KY 42003

859.255.9665
502.473.0829
270.898.6976



GLOBAL PLASMA SOLUTIONS: Bi-Polar Ionization

- ◆ Third party testing with ELITE rated labs confirmed that within just 30 minutes, GPS technology demonstrated substantial reductions in common pathogens including C Diff, Staph, MRSA, E. Coli, and Legionella.
- ◆ Reduces particles, odors, pathogens, and energy consumption.
- ◆ <https://globalplasmasolutions.com/>



NEPTRONIC: Humidifiers

- ◆ Maintaining a relative humidity between 30-60% has been shown to influence the survivorship of viruses and reduce the transmission and infectiousness of viral diseases.
- ◆ Keeping a relative humidity level of 50% kills 100% of airborne viruses within 24 hours.
- ◆ <http://www.neptronic.com/home.aspx>



EBTRON: Airflow Measurement Systems

- ◆ Ebtron's airflow measurement technologies paired with control strategies optimize ventilation air, which is critical for a healthy indoor environment.
- ◆ Occupant well-being is directly affected by the amount of fresh air being circulated in the space.
- ◆ Ensure that your building satisfied ASHRAE standards and is compliant with current building codes.
- ◆ Reduce your IAQ liability and operating risks.
- ◆ <https://ebtron.com/benefits/occupants/>



TSI: Room Monitoring

- ◆ Monitor room pressure differentials to ensure that viruses and bacteria is contained to critical spaces and does not spread to unwanted areas.
- ◆ Monitor temperature and humidity to guarantee they are at levels that don't encourage the spread of viruses and bacteria.
- ◆ <https://tsi.com/solutions/#application>



PURAFIL: Filtration Systems

- ◆ Air filtration is an important component in the fight against COVID-19 as it has been proven that infectious viral particles can float or drift around the air for up to three hours.
- ◆ Offers filtration cabinet air scrubbers that are antimicrobial and utilize multi-stage filtration that destroys viruses and bacteria on contact.
- ◆ Offers KN95 healthcare particulate respirator masks that are FDA class 1 approved.
- ◆ <https://www.purafil.com/solutions/pathogen-removal/viruses/>



UNITED COOL AIR: Dedicated Outside Air Systems

- ◆ Fresh air being brought into a building is a critical piece in creating a healthy indoor environment.
- ◆ Deliver cleaner air to the space to dilute the contaminated air in the space.
- ◆ Ensure that ASHRAE standard IAQ minimum ventilation rates are achieved.
- ◆ The Alpha Aire unit is self-contained DOAS unit designed for a quick and easy installation
 - No exterior mounting space required
 - Horizontal or vertical
 - Air-source heat pump
 - Dual energy recovery devices
- ◆ <https://unitedcoolair.com/100-percent-doaas/>



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DAIKIN AC: VRV Multi-Zone Split & Large Capacity Ductless Split Systems

DAIKIN APPLIED: RTU, AHU, PTAC, WSHP, Geothermal, Chillers & Coils



BIG ASS FANS: Industry Leader in Overhead and Directional Fans



DELTA CONTROLS: HVAC Controls



SERESCO: Pool / Industrial Dehumidification & Water Heating



NAILOR: Constant / VAV Boxes



GOVERNAIR: Custom Air Conditioning Units, Air Handlers & Chillers



HUNTAIR: Custom Air Handlers, Fanwall Technology & Clean Room Equipment



MAMMOTH: Custom RTU, VAV A/C, AHU, Penthouse Systems & Energy Recovery



NOVELAIRE: Dehumidifiers, Desiccant Wheels & Energy Conservation Wheels



DATA AIRE: Data Center & Computer Room Customizable Precision Cooling



RAPID ENGINEERING: Industrial Process & Finishing Equipment



Q-PAC: Replacement Fan Arrays



EBTRON: Airflow Measuring Systems



UV RESOURCES: Full line of UV-C products



PURAFIL: Odor and Corrosion Control



COLMAC: Domestic Water Heaters, Water Source Heat Pump & Heat Pipes



STERLING HEATING: Direct / Indirect Gas Heating & Industrial Make-Up Air

STERLING RADIATOR: Fin Tube, Unit Heaters, Convectors & Radiant Ceiling Panels



WATER FURNACE: Geothermal Systems, Water Source Heat Pump Systems & Modular Chillers



JOHNSON AIR-ROTATION: Options to Heat, Cool & Ventilate Open-Spaces



GLOBAL PLASMA SOLUTIONS: Ionization



United CoolAir: Commercial Packaged & Split Modular Indoor Systems



ENVIROTEC: Constant / VAV Boxes, FCU & Small Air Handlers



TEMTROL: Custom Air Handlers & Coils



VENMAR: Packaged / Custom ERV, Vertical UV & Energy Recovery



VENTROL: Custom AHU, Knock-Down Construction & Hybrid Foam Thermal Break



TEMSPEC: UV & Heat Pump Products for High-Rise & Classroom Applications



ADDISON: Custom & Semi-Custom HVAC-R



ALDES: Heat & Energy Recovery & Make-Up Air Equipment



CLIMACOOL: Modular Chillers & Packaged Rooftop Units



DADANCO: Active Chilled Beams



NEPTRONIC: Electric, Gas-Fired, Steam, Atomizing & Evaporative Humidifiers



IMI FLOW DESIGN: AutoFlow, FlowSet / VersaFlow Self-Balancing & Flexible Hoses



TSI: Precision Measurement Instrumentation with Unsurpassed Accuracy and Reliability



EATON: Electrical, Hydraulic & Mechanical Power Management



RAYWALL: Electric Heaters / TPI Company