



BLUE STAR

UVC Emitters™

Breathe nothing but
clean, bacteria-free air.



Breathe Easy With the Experts

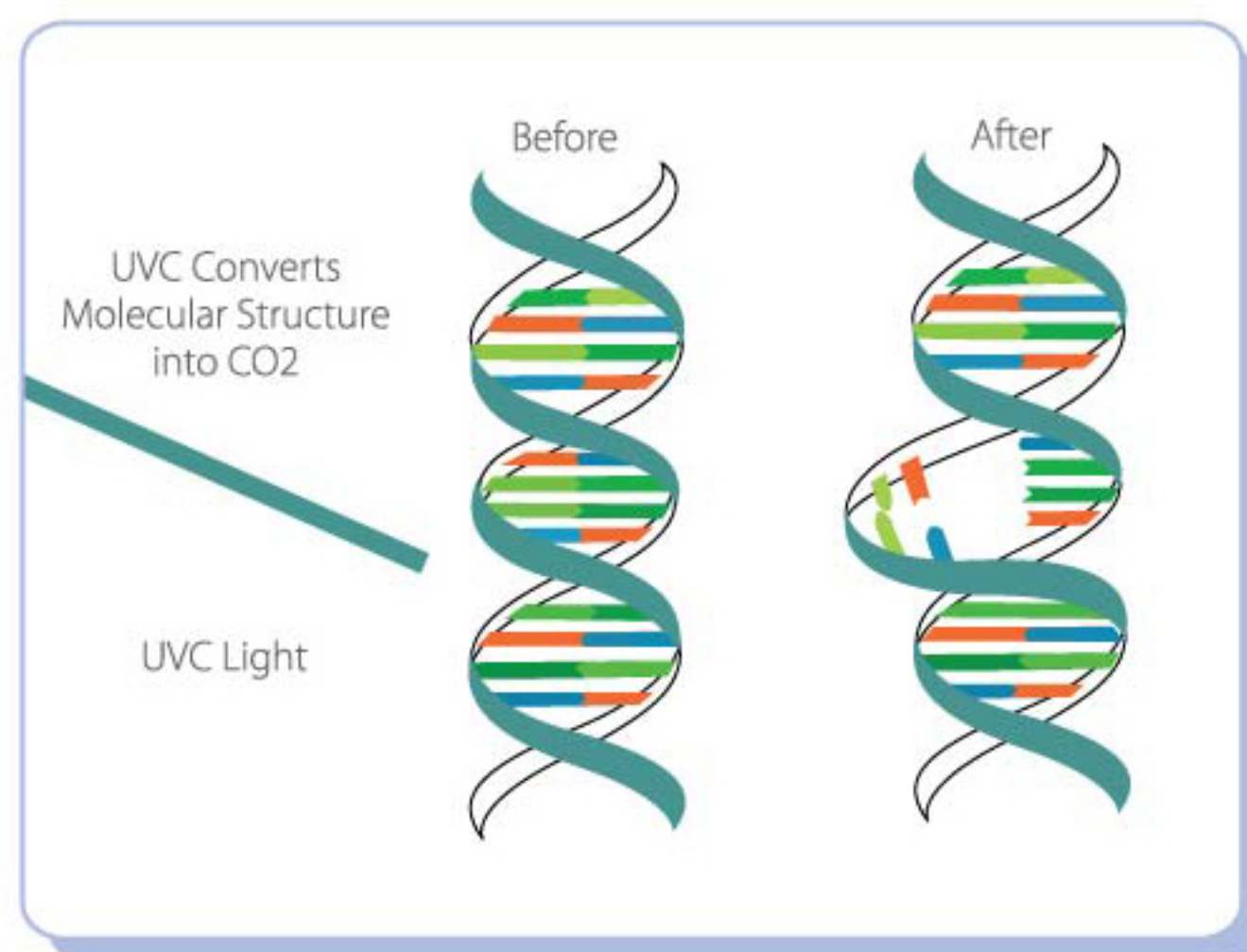
Blue Star, India's leading airconditioning and commercial refrigeration company, has over seven decades of experience in providing expert cooling solutions. By understanding and meeting the specific needs of a large number of corporate and commercial organisations, Blue Star has established leadership in almost all the segments it operates in.

Indoor Air Quality (IAQ), or the lack of it, is a leading cause of respiratory ailments and diseases. That's why it's paramount to have high IAQ in all airconditioned areas. Dark, damp and moist spaces enclosing AHUs encourage growth of micro-organisms and moulds. Often the AHU coils are not regularly cleaned. The buildup of harmful micro-organisms and their subsequent spread through the air stream could lead to illnesses like TB, Cold, Flu, E.Coli, Chicken Pox, etc. Not to mention, the detrimental effect it has on the AC system's performance. To counter this problem, Blue Star, in partnership with Steril-Aire has introduced UVC Emitters™.

Blue Star UVC Emitters™

The UVC Emitters™ are placed inside the AHUs to combat micro-organism growth. The ultraviolet energy generated in the 260-nanometer frequency tubes, curbs the growth of all types of bacteria, moulds and even the tiniest viruses, which are far too small to be captured by regular air filters. By altering the DNA structure of these micro-organisms, the UVC Emitters ensure that you breathe clean and sterile air at all times. Moreover, your system works more efficiently as a result, and your electricity bills are brought down considerably. UVC Emitters, selected, supplied and installed by Blue Star can be used in commercial buildings, health care facilities, food and beverage industry, schools and institutions, industrial buildings and residences.

UVC DNA Helix





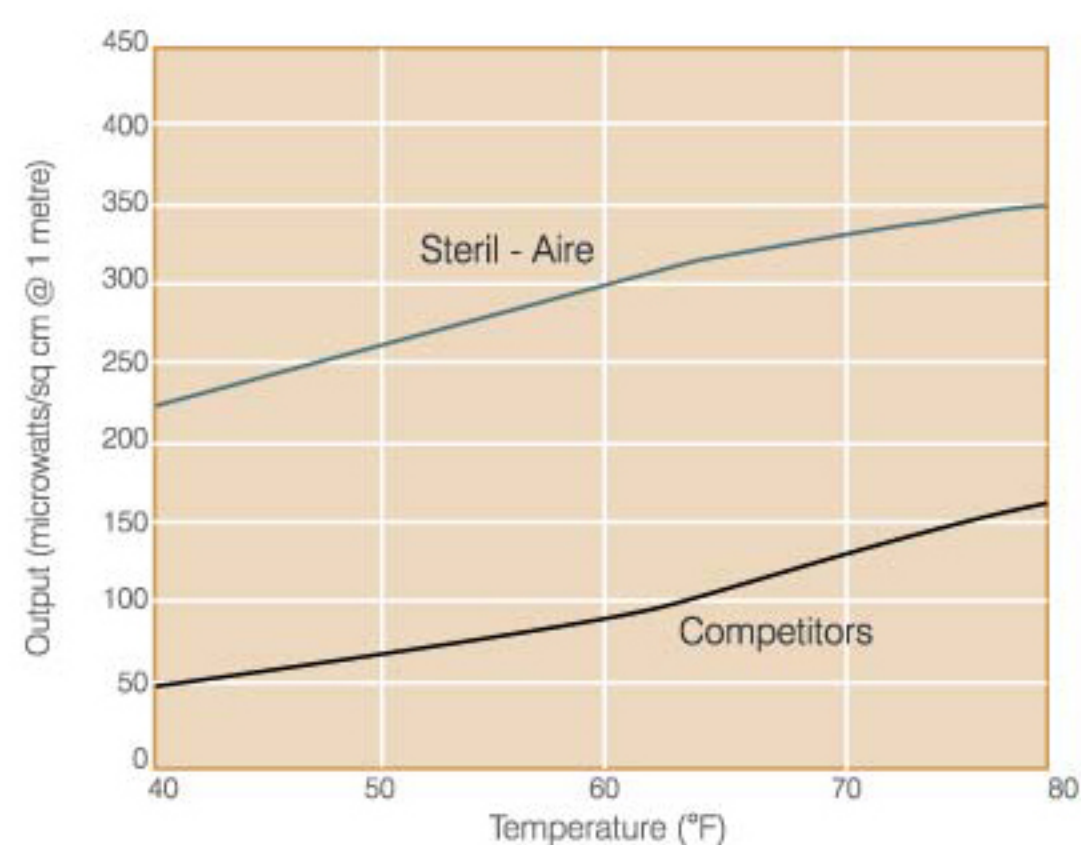
Benefits of Blue Star UVC Emitters™

- Kills or inactivates surface and airborne micro-organisms that trigger ailments, and also eliminates associated odours
- Prevents the spread of infectious diseases caused by bacteria
- Continuously cleans coils, drain pans, plenums and ducts, reducing or eliminating costly cleaning programs
- Lowers HVAC energy costs by improving heat transfer and increasing net cooling capacity
- Improves general IAQ for better productivity and less absenteeism
- Produces no ozone or secondary contaminants, and thus ensures that building occupants, equipment and furnishings don't get affected
- Improves product quality, shelf life and yield in processing plants
- Pays for itself in maintenance and energy savings

UVC Emitters™ installed on an AHU



UVC Output vs. Temperature



Steril-Aire's multi-patented UVC Emitters™ provide the best and longest-lasting UVC performance available. As shown in the comparison graph, it has been independently tested to deliver an average of 5 times the output of other ultraviolet devices under HVAC operating conditions (45° F @ 550 fpm air velocity).

DE Series UVC Emitters™



Perfect for medium to large systems in commercial, industrial, health care and institutional buildings, it comes in tube lengths: 18", 24", 30", 36" and 42", and can fit any coil width.

SE Series UVC Emitters™



Used in non-residential systems that cannot be accessed internally i.e. fan coils, heat pumps, unit ventilators, packaged air handlers, terminal units and ductwork. It is available in six tube lengths: 16", 20", 24", 30", 36" and 42".

SEN Series UVC Emitters™



This can be used for non-residential rooftop and outdoor air handlers, ductwork and other difficult to access sites and comes in six tube lengths: 16", 20", 24", 30", 36" and 42".

Unit Ventilator UVC Kit



Most major brands of classroom unit ventilators use this.

Fan Coil UVC Kit



This can be used with fan coils, split package systems and other room units and is available in six tube lengths: 16", 20", 24", 30", 36" and 42".



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