Ventilation Air Purification
For Liquid Storage Vessels

System consists of Filtered Vent Box, Control Module, Disinfect ion Chamber and Filter Blower Box. Shown with sanitary tri-clamp connections and adjustable support stand.

VENTILATION AIR PURIFICATION

The UV Superstore ventilation air purification system provides filtered and disinfected fresh air for ventilation of storage vessels. The systems were originally developed for liquid sugar storage tanks, but are now used for storage of many liquid products.

Vented storage vessels allow air to fill the cavity where there is no product. As the vessel is filled or drawn down, air is moved in and out of the vessel. This air, if not filtered and disinfected, will bring contaminates into the product and possibly cause spoilage.

The UV Superstore ventilation air purification system provides air to the vessel using an internal blower for continuous fresh air circulation. This air is filtered to remove dust and other airborne particles down to 0.3 micron size. Additionally, the air is disinfected with germicidal ultraviolet light to provide a 99.9% reduction in living organisms.

HOW IT WORKS?

The system can be mounted directly on top of a storage vessel or along side through piping; the ventilation air purification system filters and disinfects the air stream of a storage vessel.

The system is provided with an internal blower that draws air through two electrostatic pre-filters and a high efficiency (HEPA) filter. Before entering the vessel, the air passes through an ultraviolet light disinfect ion chamber. The air travels out of the disinfect ion chamber into the vessel and circulates before being released through a separate filtered vent.

The circulation of air helps prevents condensation from forming on the interior surfaces of the liquid storage vessel. With out the Ventilation Air Purification System, condensation could form and drop into the product, thereby providing an ideal environment for the growth of bacteria and other microorganisms.

UV Superstore