



# Poultry House Air Scrubber



## SCRUB THE AIR

TOMIGUNN RAPTOR removes ammonia and airborne particulates. RAPTOR is effective against biological agents, chemicals, mildew, mold, and even radioactive particulates.



## ALL-NATURAL MINERALS

RAPTOR employs all-natural zeolite mineral filtration, which uses its natural porosity to adsorb pollutants and clean the air.



## HEALTHIER BIRDS

By maintaining cleaner air quality, operators can see improved bird health that translates into increased weight and livability.

RAPTOR air scrubber cleans and recirculates large volumes of air, removing ammonia and other harmful indoor air contaminants and odors in poultry houses.



Top view of RAPTOR air scrubber with TERRA LIFE inside the filter containment vessel.

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“ RAPTOR gently circulate indoor air, forcing heavily concentrated ammonia into the scrubbers.

### Effective ammonia removal

TOMIGUNN RAPTOR air scrubber uses its 360-degree design to remove ammonia and other harmful indoor air contaminants. The air scrubbers gently circulate indoor air, forcing heavily concentrated ammonia into the scrubbers and creating a low-volume airflow that assists in the heating, cooling, and evaporation processes.



The slow and steady circulation creates just enough airflow to help increase evaporation. The higher the speed of the fan, the less ammonia is removed; the lower the speed of the fan, the more ammonia is removed.

The circulation created by constant, low-volume air movement directs particulates toward the RAPTOR filtration, where it is attracted to an oversized collection vessel. Each unit has an eight-inch diameter fan exhausting the air, and it collects from nearly ten square feet of radial surface area.

### Filtration media creates reusable byproduct

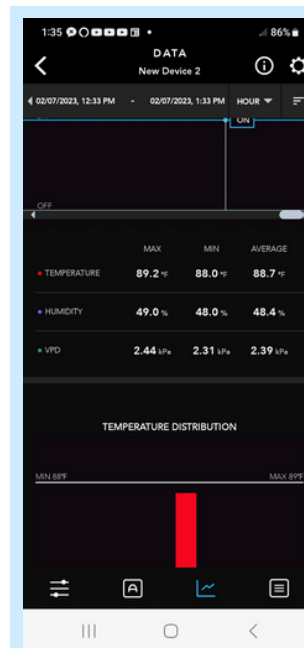
Each unit has TERRA LIFE all-natural zeolite minerals as the filter media. TERRA LIFE helps to reduce the noxious sting of ammonia odors in the poultry house.

### Gentle airflow that recirculates air

The circulation created by constant, gentle air movement directs particulates toward the RAPTOR filtration, where it is attracted to an oversized collection vessel. Each unit has an eight-inch diameter fan exhausting the air, and it collects from nearly ten square feet of radial surface area.



The RAPTOR's motor draws air through the Duon® fabric external filter bag and towards the filter media. Particles are trapped in the external filter bag, while ammonia is removed in the mineral filter media.

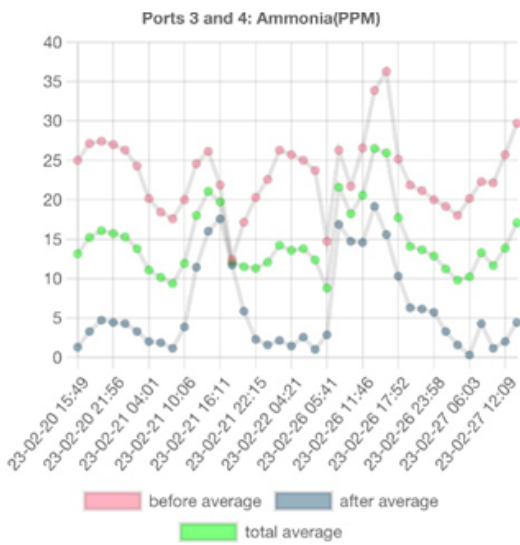


Screenshot from TOMIGUNN RAPTOR humidity and temperature sensor app for a 45'x550' broiler house. Chicks arrived on 2/7/2023, and houses were closed by ~1:00 pm. Average temperature is 88.7 F and humidity is 48.4% at 1:35 pm.



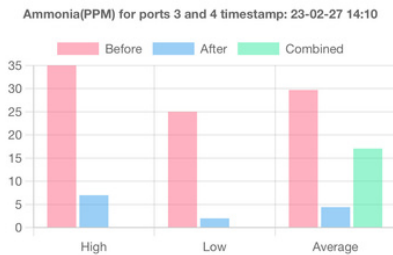
### Real-time performance monitoring

As an option, users can link RAPTOR to our TOMIGUNN AMOS air management online platform, which reports, in real-time, ammonia levels recorded by the BLACK BOX ammonia gas detection sensor located at bird level inside the house.



Ammonia measurements are taken every two minutes and averaged every two hours and posted to the TOMIGUNN AMOS, where the data is available to the operator 24/7/365.

**Avg: 17 ppm**



Operators can toggle from one day, one week, one month, six months, and one year to see ammonia levels on TOMIGUNN AMOS. Real-time reporting is also posted on bar graphs.

### Ultra-fine Merv 18 HEPA filtration

Ultra-fine particle protection is achieved when the optional Merv 18 HEPA pleated canister filter is added in the center of each RAPTOR unit.

Depending on the environment and conditions, the Merv 18 HEPA filter is estimated to need replacement every year. Regular maintenance of the filter, including removing the fine dust inside the filter with a standard leaf blower, will preserve the filter's lifespan.



The optional Merv 18 HEPA filter traps and removes 99.997% of bacteria, fungus, mildew, mold, and other particles to .3 microns in size.

