

Skywell Story

The Skywell 5T is the only SMART atmospheric water generator for office and residential use that features a proprietary comprehensive 8 step water quality sanitation and monitoring protocol to ensure the freshest and cleanest drinking water in each dispense [hot or cold].

- Air Filtration
- Particle Removal
- Main Water Filtration
- Ultraviolet Light
- Ozone 5.
- Dispense Filtration
- Real Time Monitoring
- Self Cleaning



US 9,561,451 B2



(NSF-42, 53, 55, 61)





1. Air Filtration

Electrostatic air filter removes particles in the air before water condenses on the coil.

Features include:

- Certified ASHRAE 52.1 Protocol.
- Peak arrestance rate of 94.7%
- Dust holding capacity of 165 grams







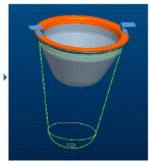
2. Removal of Additional Airborne Particulate

Any remaining particles are removed by passing through progressively more restrictive media.

- First Stage Particle Strainer
 - 100 mesh
- Second Stage Particle Strainer
 - 125 mesh
- Suction Line Pre-Filter
 - Removes additional particles and adds minerals











3. Main Water Filtration

Granular Activated Carbon Filter (GAC)

 Removes VOCs and phthalates, rust, sand, dust, and other impurities in 5 to 30 um sizes

Carbon Block Filter (CB)

 Removes Heavy Metals (Pb, Fe, etc), Volatile Organic Compounds (VOC), Removes Trihalomethane (THM), and particles down to 2 microns.

Ultrafine Filter (UF)

 Filters down to 0.1 micron creating a comprehensive barrier against viruses and bacteria.







4. Ultraviolet Light Disinfection

The collection and top tanks expose the water to a patented UV light disinfection protocol.

- The light exposes the water to 50,000 uW/cm² of 254 nm ultra violet light every 2 hours.
- Skywell exceeds the requirements of NSF-55 by always exposing Skywell water to 50,000 vs 40,000 uW/cm² of UV light (Class A System)







5. Ozone Protection

As an additional layer of water quality protection ozone is introduced into the toptank.

Dosage: 15 seconds every 3 hours

Concentration: 50-100 mg/hr

Voltage: 24 VDC

 Generates ozone using the Corona Discharge method



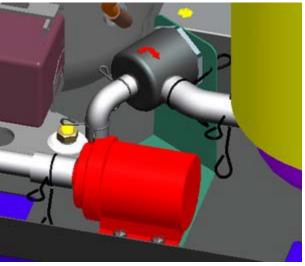




6. Final Filtration Stage: Pre-Dispense Lines

- Cold and Hot Line Filtration
 - A 0.2 micron "Ultra Fine" filter in the cold line and a 200 mesh filter in the hot line just before dispense, ensures that the purest and cleanest water reaches our customers glass each and everytime.











To maintain high quality water at all times the Skywell 5T features a daily self cleaning feature.

- Recirculation
 - **Duration: 2 Hours** Frequency: Daily
 - Ozone Dosage: 15 seconds every 3 hours
 - Concentration: 50-100 mg/hr
- **UV** Lights
 - The light exposes the water to 50,000 uW/cm² of 254 nm ultra violet light every 2 hours.
 - Skywell exceeds the requirements of NSF-55 by exposing water to 50,000 uW/cm² of UV light.









SKYWELL_{TM}

8. Real Time SMART Water Quality Monitoring

- The Total Dissolved Solids (TDS) are a measurement of water quality. While Skywell water is consistently pure with a low TDS, it's TDS Sensor can quickly detect any water quality changes.
- The UV Light is critical to maintain clean water.
 The top and bottom tanks have two UV Sensors that ensure the UV Light is always functioning within prescribed effectiveness ranges.
- The pH Sensor continuously monitors the pH levels of our water and logs and records the values.
- The Skywell monitors pre and post filter flow rates to ensure that Skywell filters are functioning optimally.
- If a fault occurs with any of these sensors the machine will "lock-out" dispense, display an alarm, and provide a reassuring message to the user.

