

Degasifier Systems for Municipal and Industrial Applications

Siemens Water Technologies' RJ Environmental product line remains unsurpassed for reliability and performance in the municipal and industrial odor control and degasifier markets. With more than 2000 systems installed since 1991, Siemens Water Technologies is one of the most recognized and trusted suppliers in the water and wastewater industry.

The use of high flow, inert polypropylene packing media coupled with system design make the Siemens Water Technologies degasifier one of the most economical systems on the market. Equipment size and cost are greatly reduced as operation takes place at higher velocities than traditional systems.

Constructed of premium vinyl ester fiberglass reinforced plastic (FRP) with a NSF/ANSI 61 liner, the system meets requirements for drinking water and food applications.

Control of odors from the degasifier may be accomplished in single or multiple stage wet chemical scrubbers, high capacity activated carbon systems or high efficiency bio-trickling scrubbers.

Selection will depend on odor concentrations and trade off between capital and operating cost.

- High efficiency
- FRP construction, with NSF/ANSI 61 certified liner
- High flow inert polypropylene Packing Media, NSF/ANSI 61 certified
- Energy efficient
- Can be combined with chemical scrubber, Bio-scrubber or high capacity carbon systems for odor removal
- Stripping and removal of H₂S from ground water
- Stripping and removal of NH₃ from wastewater



The Process

Raw untreated water is transferred to the top of the degasifier tower where it is evenly distributed over randomly dumped, high surface area media by a liquid distributor. The water trickling down fully wets the media, creating a thin film of water with a large surface area. Simultaneously, air is introduced at the bottom of the tower and passes upward through the media. This intimate, turbulent contact between the air and water induces stripping of volatile contaminants into the air stream. Treated water is discharged from the bottom of the tower for further treatment or distribution.

Wetted materials from the ground water degasifier system are certified to NSF/ANSI 61 for drinking water applications.

Additional process steps such as pH, adjustment, filtration and temperature control may be included to improve system efficiency and reduce equipment size and cost.

The Siemens degasifier system is uniquely designed to capitalize on liquid-to-gas contact, thereby maximizing removal efficiency.

Some of the industries served

- Metals processing
- Energy
- Semi-conductor Manufacturing
- Water Treatment
- Waste Water Treatment



Bonita Springs, FL

- Removes dissolved H₂S from well water
- From 6mg/L to <0.3 mg/L
- 4500 GPM
- Single stage stripper followed by two-stage chemical scrubber



Microelectronics Industry

- Removes dissolved ammonia from wastewater
- From 8000 mg/L to <20 mg/L
- 50 GPM
- Modular design
- Closed loop design with 2-stage air stripper followed by chemical scrubber and waste concentrator

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