



Product News

## **BosTek: Precise Additive Metering for combined Dust & Odor Control**

Edited by on 26. Nov. 2020

*Peoria (IL), United States -*



The DB-30 Injektor™ serves dual purposes: suppressing dust and dispersing additives for odor control or disinfection.

With a standard coverage area of more than 6,100 square feet (566 square meters) and adjustable stroke length and frequency (from 1 per hour to 100 per

minute), the DustBoss® DB-30 Injektor was developed in response to customer feedback as companies in a wide range of industries seek to maximize the effectiveness of this proven technology. When equipped with optional 359° oscillation, the coverage area is increased to a whopping 31,000 square feet (2,880 square meters).

“Many customers use DustBoss equipment in various dust-generating industries but also need a separate piece of equipment to neutralize odor in the air,” explained Chief Engineer Jason Lesch. “They wanted one piece of equipment that could do both, so we created a new and retrofittable system that could act as a dust control and dispersing system for additives, using water as the vehicle.” Landfills, transfer stations, biomass operations and soil remediation projects are perfect examples of applications needing a single system that can deliver both dust and odor control.

“We’re seeing greater demand for performance-enhancing additives in a variety of industries,” added VP of Sales Mike Lewis. “Throughout our history, we’ve welcomed input from companies that have specific needs, and that information has driven us to engineer a number of new models, options and capabilities.”

Lewis explained that while a large percentage of customers achieve their dust suppression goals using plain water, the new design relieves users of the need to measure and mix solutions to achieve superior performance in specific service environments. “Odor control and open-area disinfection require the use of special additives,” he continued. “Automating the process makes it easier and faster, saving time and reducing potential waste.”

The additive injection system can be specified for new equipment or retrofitted to existing DustBoss machines. It also can be paired with an array of options to suit different requirements. For example, BossTek offers a number of nozzle choices to deliver reduced flow rates, while maintaining excellent atomization of the airborne mixture. The new model can also be specified with a Variable Frequency Drive (VFD) to adjust plume size, and it can be outfitted to accommodate non-potable water sources.



Environmental remediation projects benefit from dust and odor management from a single machine.

In addition, the company offers a number of mounting choices, including a rugged skid base, 3-wheeled carriage, road-worthy trailers and even towers. Like existing DustBoss designs, the DB-30 Injektor can be outfitted with a quick-release manifold for easy nozzle maintenance and a variety of remote control and

automation capabilities. The standard configuration produces a throw of more than 100 feet (30 meters) but uses just 4.9-9.8 GPM (18.5-37.1 LPM) of water to minimize pooling and runoff.

The standard unit is equipped with 30 brass nozzles, which can also be specified in stainless steel or nylon for particular applications. The premium-efficiency, direct drive fan motor delivers 9,200 CFM of air flow (260.5 CMM), while the optional single-phase motor provides 8,000 CFM (226.5 CMM). Like its larger relatives, the design produces millions of 50-200 micron droplets per minute, using a common 5/8" (15.8 mm) garden hose for a water supply.

The metering pump housing is constructed from chemical-resistant, fiber-reinforced thermoplastic, with ceramic ball valves. Valve seats and seal rings are renewable by replacing the combination seat-seal ring or cartridge valve assembly. The pump head features PVC fittings and connections, and exposed fasteners are stainless steel for exceptional durability. The assembly can deliver a range of chemical volumes from a minimum of .003 GPH (.009 LPH) to a maximum of 2.5 GPH (9.5 LPH).



Landfills and recycling operations can achieve dust & odor control to save time and reduce potential additive waste.

Sixteen feet (4.8 meters) of polyethylene tubing is supplied with each pump for retrofit applications, complete with compression fittings. A foot valve with integral one-piece strainer is provided for the suction line, as well as an injection/back pressure check valve for the injection point. A dilating orifice on the injection

check valve prevents accumulation of scale and crystalline deposits.

“The new metering system brings even greater versatility to a proven control technology, helping customers optimize their use of additives for maximum performance,” Lewis concluded. “The Injektor system eliminates measuring and guesswork, helping customers reduce labor time and product waste, while delivering highly effective dust and odor to a wide range of industries and applications.”