



**Joe Johnson
Equipment**

Subsidiary of Federal Signal Corporation

VANGUARD SYSTEMS

SANITIZE AT THE SOURCE

**PROTECT SANITARY SEWER WORKERS BY CLEANING THE SEWER
HOSE & SANITIZING EQUIPMENT AT THE JOB SITE**



The Vanguard System helps protect sanitary sewer workers from contacting raw wastewater by cleaning vacuum hoses and related equipment at the job site. This economical and easy-to-use system applies an anti-viral, anti-bacterial agent that reduces raw sewage contaminants by up to 98% from the equipment most often handled by workers.



**VANGUARD
SYSTEMS**

- Independent lab studies shows the system removes up to 98% percent of harmful contaminants from raw sewage, potentially reducing employee sick time and limiting liability
- Operating costs average just a few dollars per day
- With the click of a button, sanitary workers clean hoses, tools, and other equipment
- The modular design means the Vanguard system can be installed on any make and model of Combination, Jet or CCTV truck in around two hours or less
- In minutes, the system can be converted from cleaning vacuum hoses in the manhole to sanitizing tools, vehicles, clothing – even large SSO spills

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VANGUARD SYSTEMS

HELP PROTECT SEWER OPERATORS

HOW DO SEWER WORKERS GET EXPOSED TO CONTAMINATES?

The environment in which sewer workers operate contains numerous types of harmful bacterial and viruses which can cause sickness or disease in the human body. When maintaining these sewer systems, workers are exposed to contaminants as they are pulled out of the sewer on hoses, nozzles, cameras, tools and other equipment.

INSTALLATION KIT:

The modular design of the system adapts to most Vactor trucks and allows components to be positioned and mounted in convenient locations. The installation kit contains instructions, mounting templates, tubing valves, wiring and fasteners for the tank, control box, reel and hose, spray gun, and manhole roller.

VANGUARD SANI-SOLUTION CONCENTRATE & TANK:

The concentrate is specially formulated material that helps sanitize tools and surfaces. The concentrate is UV-stable and remains liquid-state to a temperature of -34C. The system has an air purge feature to clear the water line when operating in freezing conditions (requires compressed air connection from truck). The concentrate is stored in an opaque, 20 litre, poly-propylene tank that is mounted to the truck and routed to the control box. The tank should be mounted so the splash-proof vent cap is accessible for refilling.

CLEAN COLLAR:

Our Clean Collar technology provides 360° cleaning coverage of the jet hose as it is being retracted back onto the reel. Made from 6061 aircraft aluminum and stainless steel, the collar is built to handle a harsh operating environment. It's compact design allows for maximum access into the manhole for unobstructed access during cleaning and vacuuming operations. The magnetically closed door on the collar eliminates mist as the system is operated. The Clean Collar is light weight and easy to use and store.

CONTROL BOX:

The rugged, powder coated steel control box is NEMA-4 rated and accurately meters and blends the Vanguard Sani-Solution concentrate with on-board water. The System is self-priming and remains in stand-by mode until pressure-activated. The control box uses pressure-sensing technology to turn on/off the pump as needed, eliminating any delays. When the control valve for the manhole roller or spray gun is opened, the system senses the drop in pressure and activates the pump.



*The Vanguard System is designed to supplement, not to replace, existing safety programs, practices and equipment.

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