

# Medical Equipment Disinfection

## Case Study: Sizewise

### How EMist provided a more efficient and effective disinfecting system and process



With many bed frame options, countless support surfaces, and mobility equipment, Sizewise, a medical equipment manufacturer with more than 65 locations nationwide, is always looking for innovations that benefit customers and patients. While working hard to establish healthy products and services, they found their disinfection process labor-intensive and costly.

EMist conducted a 30-day study side-by-side with Sizewise to prove the efficacy, effectiveness, and efficiency of the EMist System and Process.

#### SUMMARY

- Chemical reduction of at least 75%
- Consumables reduction of at least 45%
- Labor / time reduction of at least 50%
- Omission of steam cleaning requirement
- Adaptability to a more efficient chemical
- Optimum return on investment
- Cost and time predictability due to standardization
- Significantly higher throughput of assets processed per day



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### OVERVIEW

- We implemented an EMist Backpack System and a Roller Cart System for their bed frames, mattresses, and patient mobility equipment.
- We completely replaced their disinfecting method with the EMist Process.

### STUDY

Measure time, labor, and chemical consumption differences using the EMist System as compared to their existing disinfecting process.

### TIME & LABOR

On average, we were able to reduce the time per asset by 62%. At one site, Sizewise was able to maintain productivity and minimize overtime while being short one warehouse employee.

### CONSUMPTION

We created significant reductions in water and chemical consumption.

- YTD disinfectant consumption at one site was 2,560 gallons.
- During the test period, usage dropped to just 7 gallons.
- Projected over 12 months, Sizewise would reduce consumption from 2,560 gallons to only 84 gallons.
- A substantial savings while also creating a more environmentally sustainable practice.

### COST

The reduction of tangible resources (chemical) alone had a significant impact on return:

- Based on an average example of sites evaluated, Sizewise would reduce disinfectant consumption from an average 20 gallons of concentrate to 1 gallon of concentrate per year, a significant cost savings.
- Secondhand bedding disinfectant would be reduced from 15 gallons to 4 gallons per year, a significant cost savings.
- Amplified company-wide, this would create a significant demonstration of return. There are also intangible reductions in time/labor (overtime, throughput, productivity) and consumption (reduction of wastes by thousands of gallons per year).

### SUMMARY

By implementing the EMist System and Process, Sizewise was able to improve efficiencies while also creating a standard of excellence.

### MEDICAL EQUIPMENT DISINFECTION

With rising rental costs, increasing healthcare standards, and decreasing reimbursements, DMEs are looking for better disinfection solutions that can save money through reduced labor costs, increase patient and referral partner trust, and improve outcomes.



**Sizewise** is a privately owned, global medical equipment manufacturer with more than 20 years' experience engineering innovative products to meet the needs of bariatric, geriatric, pediatric, and standard patient populations. Produced in four manufacturing plants and supplied through more than 65 distribution centers nationwide, Sizewise offers a range of American-made specialty surfaces, intelligent bed frames, and mobility equipment that enhances patient healing and caregiver satisfaction. Sizewise is headquartered in Lenexa, Kansas.

**EMist** is dedicated to infection prevention and control. Founded on a legacy of electrostatic science and technology, the EMist Infection Control System and Process complements existing disinfection application methods. The EM360™ System is mobile, touchless, cordless, and more cost-effective approach to environmental surface disinfection. EMist makes disinfecting better, easier and more cost effective.

## SIZEWISE