



Protecting Lives Against Infection™

# EVOTECH® ECR vs. STERIS® SYSTEM 1E™

CRITICAL TO  
CONSISTANT CARE

Feature	EVOTECH® ECR	SYSTEM 1E™ <sup>1,2</sup>	Benefit
<b>Cleared Cleaning Claim</b>	✓		The EVOTECH® ECR is the first commercially available system in the U.S. that both cleans* and high-level disinfects endoscopes
<b>Integrated MEC Monitoring</b>	✓		Integrated monitoring eliminates subjectivity of test strips, healthcare worker exposure to HLDs, saves time and money
<b>Third Party Confirmation</b>	✓		According to recent studies by independent investigators, the EVOTECH® ECR is superior to manual cleaning of endoscopes and eliminates the variability of manual processing <sup>3,4</sup>
<b>Cycle Time (min)</b>	33	25 <sup>†</sup>	<sup>†</sup> Time does not include manual cleaning, leak test or alcohol flush
<b>Manual Cleaning Time (min)</b>	Included	5-15	
<b>Basins (capacity per basin)</b>	2 asynchronous, 1 scope	1 basin, 1 scope	Asynchronous basins allow scopes to be processed when available and can increase throughput
<b>Continuous Leak Test</b>	✓		Identifies leaks missed in manual testing and reduces scope repairs by identifying leaks when they are small
<b>Continuous Block Test</b>	✓		Ensures adequate flow through the lumen
<b>Channel Connection Monitoring</b>	✓		Identifies incorrectly connected scopes, reducing the potential for lapses in reprocessing
<b>Channel Pressure Monitoring</b>	✓		Ensures each scope is processed throughout the entire process
<b>Automated Alcohol Flush</b>	✓		SGNA guideline to promote drying <sup>5</sup>
<b>Self Disinfection</b>	✓		Prevents buildup of biofilm formation
<b>Data Management</b>	✓	✓	Tracks cycle data logs
<b>Barcode Reader</b>	Optional		Allows quick and accurate data entry relating to the endoscope, operator, physician and patient
<b>Printer</b>	✓	✓	Provides printout of cycle data
<b>Foot Pedal to Open Lid</b>	✓		Prevents cross-contamination; ergonomic
<b>Dimensions W x D x H (in.)</b>	37 x 32 x 46	40 x 24 x 38	Note: SS1E has an additional UV System: 30 x 9 x 28
<b>Weight</b>	500 lb	140 lb	Note: SS1E has an additional UV System: weight 40 lbs

## High-Level Disinfectant and Detergent

<b>Single Shot HLD</b>	✓ Automatic	✓ Manually Loaded	Single-metered dose of disinfectant consistently assures high-level disinfection for every scope
<b>HLD</b>	CIDEX® OPA-C, Solution ortho-phthalaldehyde	S40™ Sterilant Concentrate, Peracetic Acid	CIDEX® Solutions are the most highly used HLDs in the U.S., <sup>6</sup> are compatible with materials found in endoscopes, and are more gentle than peracetic acid-based products <sup>7</sup>
<b>Detergent</b>	CIDEZYME® XTRA Multi Enzymatic Detergent	None	ASP's multiple enzyme formula easily and naturally removes fats, lipids, protein, starches and carbohydrates

## Installation Requirements

<b>Voltage</b>	208 V	115 V (GFCI)	
<b>Incoming Water Supply</b>	Cold	Hot (43-60°C)	The built-in heater of the EVOTECH® ECR eliminates the need for an incoming hot water supply
<b>Water Flow</b>	3.2 GPM (12 LPM)	2.5 GPM Max	
<b>Water Pressure</b>	40-70 PSI	40-50 PSI	
<b>Water Softener Required</b>	✓		Reduces the risk of deposits on critical components
<b>Water Filters</b>	3 x 0.2 µm filters	2 x 0.1 µm filters 1 x 2.5 µm filter	The EVOTECH® ECR has two external filters and an internal bacterial filter for each basin

1. SYSTEM 1E Technical Data Sheet, SD924, [http://www.steris.com/media/PDF/system1/SD924\\_07-01-10TechData.pdf](http://www.steris.com/media/PDF/system1/SD924_07-01-10TechData.pdf) (Accessed August 5, 2011)  
 2. Alfa MJ, Degagne P, Olson N, Fatima, I. EVOTECH® Endoscope Cleaner and Reprocessor [ECR] simulated-use and clinical-use evaluation of cleaning efficacy. *BMC Infectious Diseases* 2010; 10:200.  
 3. Alfa MJ, Olson N, DeGagne P. Automated washing with the Reliance Endoscope Processing System and its equivalence to optimal manual cleaning. *Am J Infect Control*. Nov 2006;34(9):561-570.  
 4. Olstead, C. L., Wetzler, H. P., Snyder, A. K., & Horton, R. A. (2010). Endoscope reprocessing methods: A prospective study on the impact of human factors and automation. *Gastroenterology Nursing*, 33(4), 304-311.

5. Society of Gastroenterology Nurses and Associates (2009). *Standards of Infection and Control in Reprocessing of Flexible Gastrointestinal Endoscopes*. Chicago, IL: Society of Gastroenterology Nurses and Associates, Inc.

6. *Junicon® US Endoscopy Census Study*, May 13, 2010

7. "Effects of STERIS™ Sterilization and CIDEX® Ortho-Phthalaldehyde High-Level Disinfection on Durability of New-Generation Flexible Ureteroscopes." Written by JBA Abraham, CS Abdelshehid, HJ Lee, GN Box, LA Deane, T Le, F Jellison, JF Borin, A Manipon, EM McDougall, RV Clayman, September 2007. *Journal of Endourology*.

\*Does not eliminate bedside precleaning. Manual cleaning of medical devices (endoscopes) is not required prior to placement in the EVOTECH® ECR when selecting those cycles that contain a wash stage. STERIS and System 1E are registered trademarks of Steris Corporation. ©Ethicon, Inc. 2011.