## Specifications for the Hallmark Mark 3000 Silver Recovery Unit

Capacity	De-silvers up to 45 gallons of effluent in a 24-hour period. (The practical capacity is 30 - 45 gallons per day as limited by the size of the reagent tanks and the filter module capacity.)			
Dimensions	Height -38 inchesWidth -32 inchesDepth -22 inches		S	
Weight	Empty - 86 pounds Full - 310 pounds			
Connections	Feed - Discharge - Overflow - Power -	man - 3/8" ½" N	IPT to accept a variety of fittings (or solution is ually added to the collection tank) inch ID flexible tubing routed to the drain IPT to accept a variety of fittings ong grounded 110 V AC outlet	
Volumes	Feed Tank Reagent Ta Stabilizer T	inks -	<ul><li>9.8 gallons above the control level switch</li><li>SRS Part A and SRS Part B:</li><li>3.9 gallons above the low-level switches</li><li>5.7 gallons</li></ul>	
Access	Hinged tank hatches, removable top cover. Unit may be positioned along walls in the back and on the left or right side. <b>Portability -</b> Mounted on swivel casters			
Site Specifications	tions Floor Space - Power - Effluent Feed - Unit Discharge -		Approximately 10 ft <sup>2</sup> (4-5 ft <sup>2</sup> footprint plus 5 - 6 ft <sup>2</sup> to allow access to the front) 110 VAC, 60 Hertz, 15 amp service	
			Flexible tubing from the process overflow, or silver- bearing solutions are manually added from top To drain where permitted	
	Emergency Overflow -	/	To an overflow collection vessel	

Performance Specifications	Recommended starting point flow rates in mL/min (pump calibration) for feed silver concentrations of approximately 2.1 g/L: Effluent Feed - 174 mL/min (adjustable) SRS Part A - 3.0 mL/min (fixed) SRS Part B - 4 mL/min (fixed) Note: When the silver concentration varies from 2.1 g/L, the flow rate of the effluent feed may be adjusted for more economical operation. See Illustration 3 on page 21 for more details.				
Supplies	Silver Recovery Solutions	Part Number			
	Silver Recovery Solution Part A				
	2 ½ gallons ready to use	SRSPARTA			
	Silver Recovery Solution Part B				
	Ten 10 mL concentrated packets (Each packet is enough to make 2 ½ gallons of working strength solution – approximately two packets of SRS Part B should be used for each 2 ½ gallon container of SRS Part A)	SRSPARTB			
	Silver Recovery Filter Cartridge Each filter may treat up to 180 gallons of effluent	MK3000FILT			
	Mark 3000 Accessory Kit The kit includes equipment to start and maintain the Mark 3000: A mixer, a 3 Liter pitcher, a 2.5 gallon container for mixing Part B, 2 quick-serve cubitainer taps, a graduated cylinder, a beaker, two sets of poppet valves, instructions for mixing Part B and tubing for peristaltic pump maintenance.	TMTACC3000			