

Saltus[®]

Single-Use Mixing System



Saltus® Attributes

Construction	Maximum Working Volume	200 L			
	Minimum Working Volume	30 L			
Agitation	Volume Turndown Ratio	6.7 : 1			
	Aspect Ratio	1.7 : 1			
	Geometry	Cylindrical with hemispherical bottom dish for full drainability			
	Support Tank Access	110° swing away door secured with two (2) latches			
	Mobility	Five (5) wash-down non-marking casters, three (3) fully locking, suitable for cleanroom			
	Materials	Support Tank and Structure	304 Stainless Steel		
		Instrument Cabinet Enclosure	304 Stainless Steel		
		Surface Finish	#4 Brushed		
		Drive	Top drive, direct rotary to linear motion motor		
		Motor Power	250 Watts, 0.33 Horsepower		
Process Instrumentation	Impeller Type	Single-use vibromixer integrated with single-use mixing assembly			
	Number of Impellers	One (1) or two (2) impeller disks depending on single-use mixing assembly chosen			
	Impeller diameter	½ tank ID			
	Impeller location	Center shaft 90°			
	Connection	TC coupling to single-use mixing assembly			
	Inflation System	Automatic single-use mixing assembly deployment system with integrated pressure and flow sensors			
	Fail Safe System	Real-time deployment and monitoring system to prevent operator error			
	Agitation Control	Variable Frequency Drive (VFD) with fixed amplitude			
	E-stop	Integrated safety circuit for entire system			
	Gas Overlay	Nitrogen blanketing (optional, please contact factory)			
Control Unit	Weight Control	Load cells (optional, please contact factory)			
	Temperature Control	Jacketed tank and external temperature control unit (optional, please contact factory)			
	Integrated Control Panel	Built to GAMP5 Standards			
	Hardware	Siemens S7 PLC			
	Operator Interface	Siemens 12" color touch panel with synoptic display			
	Programming	Siemens TIA Portal			
	Operational Paradigm	Fully automated recipe-based mixing			
	Recipe Storage	Up to ninety-nine (99) production recipes			
	Data Security	Three level password protection			
	Units	User selectable between English units and SI			
Process Data	Alarms Factory Set	Over pressurization of single-use mixing assembly and drive temperature			
	Alarms User Defined	Process parameters			
	Data Acquisition	Real-time capture of process parameters and set points in Excel format			
	Batch Record	Automatically generated batch completion certificate			
	Storage and Retrieval	USB with tamper proof access			
	External Connectivity	Ethernet			
	Single-Use Mixing Assembly	Operating Temperature	4° - 60° C (39° - 140° F)		
		Changeover Time	A single-use mixing assembly can be deployed in less than 5 min		
		Operational Life	Up to three (3) weeks per batch		
		Hold-Up Volume	< 0.5 L		
Overall Dimensions		Inches	Length	Width	Height
	Centimeters	63	39	71	
		160	100	180	
	Weight	Pounds	Net	Net (filled)	Gross
Kilograms		825	1,265	1,000	
		374	574	454	
Power Requirements		US	120 V / 60 Hz / 6 A		
	Europe	240 V / 50 Hz / 3 A			
	Export	Please contact factory			
On-line System Support	Remote Trouble Shooting	Basic	Advanced (Optional)		
		Network compatible system access, fixed IP address	Network compatible system access, dynamic IP address		

Ordering Information

Product Type Prefix	Tank Type	Configuration	Nominal System Volume	Voltage	Control / Data / Network Package	Options
KMHS	J	B	09	U	EC1	LN
KMHS = Saltus® Mixing System Hardware - Complete System	S = Standard; 304 Stainless Steel J = Jacketed Tank; 304 Stainless Steel	B = Base configuration; includes side and top retaining bars	09 = 200 L	U = US version; 110V / 60Hz E = European version; 230V / 50 Hz	C01 = Standard Control Package. Includes internal USB storage (inside top cap) USB and external Ethernet port (bottom). Network system access for on-line system support is accommodated via a fixed IP address. EC1 = C01 Option + Network access for on-line system support provides dynamic IP address functionality.	00 = Standard Product 1N = Includes external gas port to accommodate compressed gas, e.g. sterile air or nitrogen, for inflation and overlay system. L1 = Includes integrated load cells. LN = Option 1N + L1

