

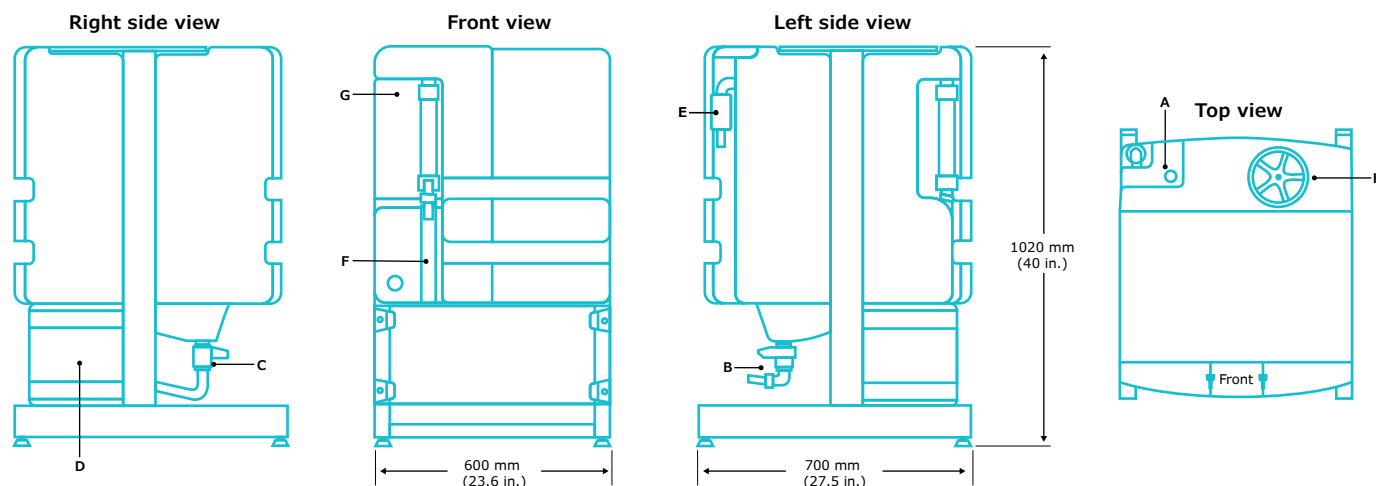
S.D.S. 200 Storage and Distribution Systems

Catalog numbers

Electrical	S.D.S. 200 with built-in pump	S.D.S. 200 without pump
230V/50 Hz	TANK5P200	TANK50200
120V/60 Hz	TANK6P200	TANK60200

General Description

Tank stores 200 L (53 gal) of purified water with optional distribution pump to deliver water to multiple-use locations. System includes built-in sanitary overflow device, vent filtration options, and a hermetically sealed cover to provide protection against airborne contaminants. An optional UV Automatic Sanitization Module (ASM) installed into the top cover of the S.D.S. will inhibit bacteria growth and biofilm formation on the inner walls of the tank. Merck RiOs™ and Elix® water purification systems provide complete control of the distribution pump and ASM. The RiOs™ and Elix® systems also communicate directly with the integrated S.D.S. water level sensor to automatically keep the tank full.



Hydraulic Connections and Specifications

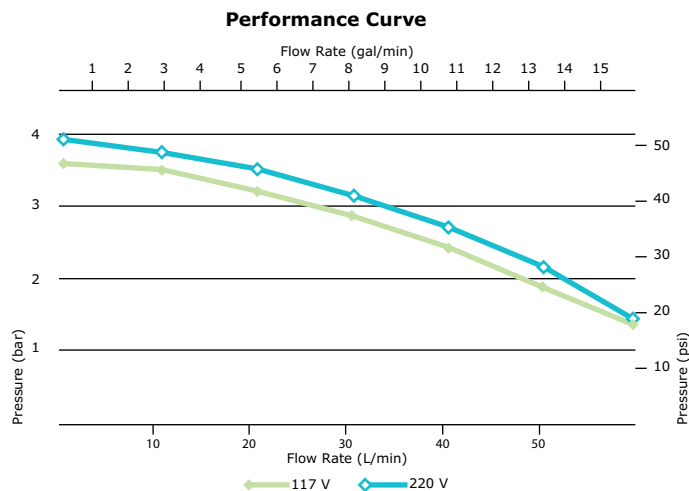
Connection	Description
A 8 mm tube fitting	Pure water inlet
B Reservoir drain	½ in. ball valve and 20 mm tube fitting
C Reservoir to pump inlet	½ in. ball valve and 20 mm tubing
D Pump outlet (not visible)	20 mm tube fitting
E Reservoir loop return	¾ in. NPT and 20 mm tube fitting
F Sanitary overflow	20 mm tube fitting
G Vent filter	12 in. code-0 O-ring
H Sealed cover	15 mm (6 in.) opening thread with gasket

Installation Space Requirements

- Additional space will be required for hydraulic connections; pump outlet to loop, loop return, overflow and drain.
- Allow additional 250 mm (9.8 in.) above S.D.S. for installation of ASM (optional).

S.D.S. Specifications

Actual volume (full)	200 liters (53 gallons)
Weight	Operating: 260 kg (570 lb.) filled with water
Electrical requirements	Mains power located 1 m (3.3 ft.) maximum from system: 230 VAC 50 Hz, 750 VA, ($\pm 10\%$); 10 amp source 120 VAC 60 Hz, 750 VA, ($\pm 10\%$); 20 amp source Relay output rating: 3 pole dry contact, 240 VAC max, 50/60 Hz, 2200 VA
Pump operation/control	Operation and control of the distribution pump is by Merck RiOs™ and Elix® water purification system.
Level sensor	5 m (16.4 ft.) cable length with stereo jack for direct connection to Merck RiOs™ or Elix® system.
Materials of construction	Contact Merck for information.
Pump performance (for versions with pump)	See Performance Curve opposite. Nominal: 30 L/min at 3 bar pressure (8 gal/min at 45 psi) A Merck Application Specialist can select alternative pumps to meet specific flow and pressure requirements.



Automatic Sanitization Module (ASM) Specifications

Catalog Number	TANKASMUV
Description	Optional UV lamp ASM installs directly into top of S.D.S. 200 tank and will inhibit bacteria growth and biofilm formation on the inner walls of the tank.
Operation and Control	ASM operation is controlled and powered directly from Merck Elix® or RiOs™ water purification systems.
Dimensions	Total length: 320 mm (12.6 in.) Length of lamp housing: 215 mm (8.5 in.) Length of cable to connect to Elix® or RiOs™ system: 5 m (16.4 ft.) Install and UV lamp replacement requires 250 mm (9.8 in.) above top of S.D.S. tank.

For More Information

Please visit our website
MerckMillipore.com/labwater

Merck KGaA
 Frankfurter Strasse 250
 64293 Darmstadt
 Germany

