
SDS LOOP AND HEAD TANK INSTALLATION REQUIREMENTS

SDS unit installation requirements:

- The unit must be located as near to the patient care area as possible.
- Floor space required for a remote unit with service access and 70 gallon tank is 42" depth and 86" width.
- Floor space required for a remote unit with service access and 100 gallon tank is 42" depth and 112" width.
- Floor space required for a local unit with service access and 70 gallon tank is 58" depth and 96" width.
- Floor space required for a local unit with service access and 100 gallon tank is 64" depth and 118" width.
- Requires 115 VAC 20 AMP 1 PH straight blade GFI receptacle (NEMA 5-20 or Equivalent) located 2'-6" on left side of footprint and 5' up from floor.
- Requires 3/4" threaded RO water valve located 4' on left side of footprint and 4" up from floor.
- Requires drain access (floor sink recommended) of 20 GPM located between the frame and mix tank and 1" from back of footprint. It is recommended that the area be sloped to a floor drain.

Head tank installation requirements:

- Remote head tank(s) must be ceiling or wall mounted. The installation must meet local codes. Operational Weight: 10 gallon tank: 105 lbs ± 2 lbs each.
15 gallon tank: 150 lbs ± 2 lbs each.
30 gallon tank: 300 lbs ± 2 lbs each.
- It is recommended that the head tanks be mounted directly above the SDS unit, or no more than 10 feet away horizontally from the SDS unit sides.
- The tank must be mounted so that the bottom fitting on the tank is a minimum of 2' above the highest point of the loop tubing but not more than 7' above the wall station(s).
- An installation height above 7' will require a pressure reduction device.

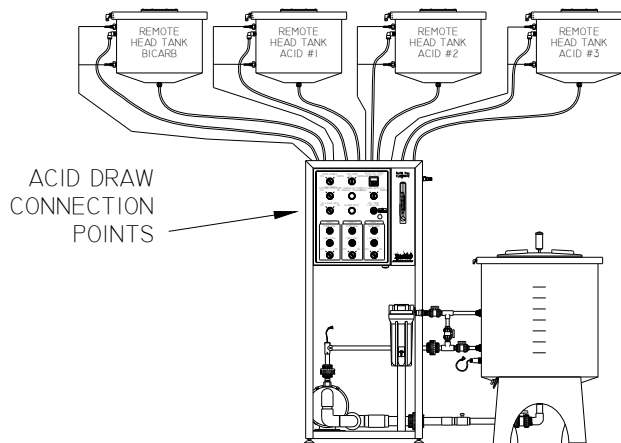
Loop installation requirements:

- Loop tubing may be installed above the ceiling or lower, including below the floor (following the RO water piping routing is recommended).
- Tubing loops installed under floors or concrete slabs should use 3" or 4" pipe with "sweep" type elbows for routing the tubing through.
- Highest point of loop tubing must be minimum of 20" below head tank bottom fitting.
- Head tanks installed higher than 7' above wall stations may require a pressure reduction device on each loop.

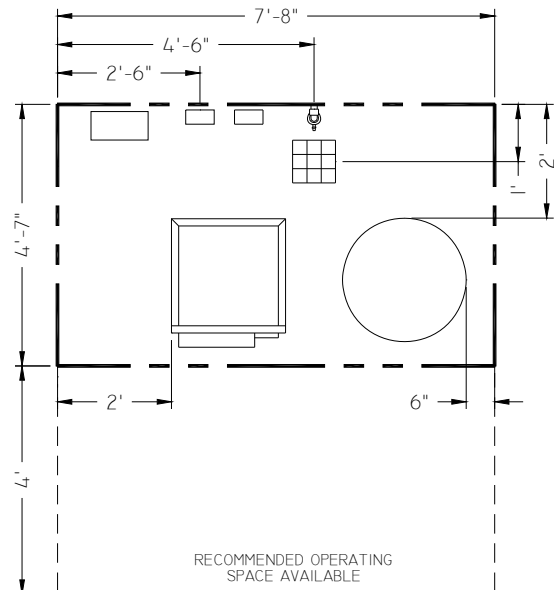
Loop installation requirements continued:

- Maximum loop length is 700' and no more than 20 patient stations per loop.
- Facilities with more than 20 patient stations or loops longer than 700' will require additional loops for each solution.
- Each solution requires a separate loop of a different color.
- Loop tubing colors are Blue, Red (acid 1), Orange (acid 2) and Yellow (acid 3); not all units will have all colors.
- Tubing loop(s) start at the SDS unit location, are routed around to the patient stations and return back to the start (SDS Unit).
- Loop must be continuous tubing (no in-line couplings in walls or ceiling). Breaks or splices in tubing runs should occur with tee fittings at a patient station dispenser.
- Loop tube must be installed with no kinks, pinched sections, scratches, marks (paint or plaster), or blemishes.
- Loop tubing must be 1/2" polyethylene (PE) tubing secured with appropriate restraints (tie wraps).
- Label the ends of the loop in the SDS room "supply" and "return".
- Loop tube needs to be installed straight (level) with no looping and supported to prevent excessive sagging with a minimum bend radius of 2-1/2".
- If loop(s) is to pass through an unheated space, the loop should be insulated to prevent freezing.

Reference installation views:



SDS Elevation View



SDS Plan View

For additional assistance contact Mar Cor Purification at (800) 633-3080.