



SIMPSON® GROUP



Changing the water solution on the Simpson+Gerosa Permeability Machine (Model #42132)

To keep the permeability machine operating correctly, the water solution in the reservoir should be changed every six months or sooner to prevent scum buildup. The scum attaches itself to the drum causing the drum to be heavier, resulting in incorrect permeability readings. To change the water solution in the reservoir, do the following:

1. Disconnect the power and air supply from machine.
2. Remove the drum from the machine.
3. Wash the drum both inside and outside with water removing any scum buildup. Using a brush to remove the buildup is helpful.
4. To remove any scum buildup from machine reservoir, use a long brush to scrub the walls of the reservoir.
5. Pick the machine up and pour the water solution out into a sink or container. Set the machine upright on a bench or table.
6. Place a cork into the center pipe in the machine so no water enters it.
7. Pour water into reservoir to rinse out. Again pour the water out of the machine into a sink or container.
8. Place machine back in the operating position and reconnect the power and air supply.
9. Level the machine.
10. Refill the reservoir with fresh solution as follows:

With the drum removed and the central pipe plugged with a cork, prepare a mixture of 10% ethylene glycol anti-freeze (Prestone) and 90% water. A total quantity of 2,000 ml is required. This can be accomplished with a 1,000 ml beaker. Simply measure 100 ml of anti-freeze into the beaker, and then fill the beaker with water until it reaches the 1,000 ml mark. Pour the anti-freeze/water mixture into the reservoir. Repeat this process one more time. The resulting 2,000 ml of total liquid should fill the reservoir to the lower edge of the liquid level sensor (the white washer with a screw in the center located on the front wall of the reservoir). Remove the cork and carefully replace the drum. When the drum is at its lowest position (full rest position) the liquid level indicator LED on the front panel should be out.

Note: The anti-freeze is not for prevention of freezing but serves as an anti-corrosion agent.

Questions regarding this procedure should be directed to Simpson's lab manager, Mr. Fred Schuster, by phone (630-978-0044), fax (630-978-0068) or email (fschuster@simpsongroup.com).

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- Pollution Control Equipment
- Sand Laboratory Testing Instrumentation
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