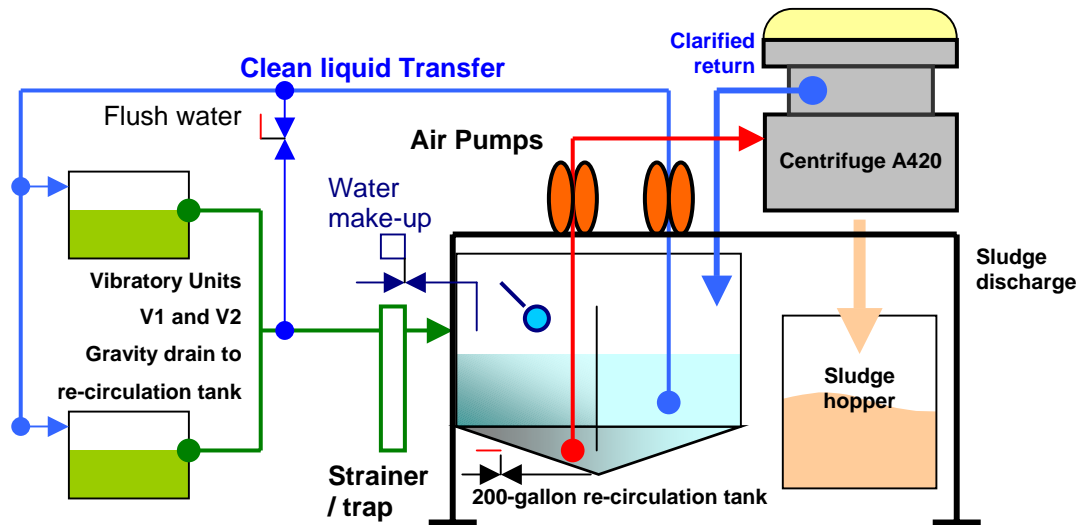


Vibratory Finishing Recirculation System Diagram



Basic Process Description

- Dirty liquid from the vibratory unit drains into re-circulation tank at low flow rate.
- The re-circulation tank is sized for maximum retention time.
- A strainer or trap should be installed to catch big pieces and prevent tank entry.
- An air pump pulling from the bottom of the “dirty” tank section continuously feeds to the centrifuge at approximately 10-gpm. The centrifuge returns the centrifugally clarified liquid back to the “clean” tank section. The centrifuge will periodically stop and discharge the separated solids into a sludge hopper placed below the centrifuge.
- An air pump feeds from the “clean” tank section of the re-circulation tank at approximately 2-gpm back to the vibratory units.
- A flush line can be incorporated to maintain flow in the drain line to prevent settling and blockage.
- A float and water solenoid serve as fresh water make-up.
- The centrifuge feed and clean return pumps are both 1” Wilden air powered pumps with aluminum body and Wilflex diaphragms.