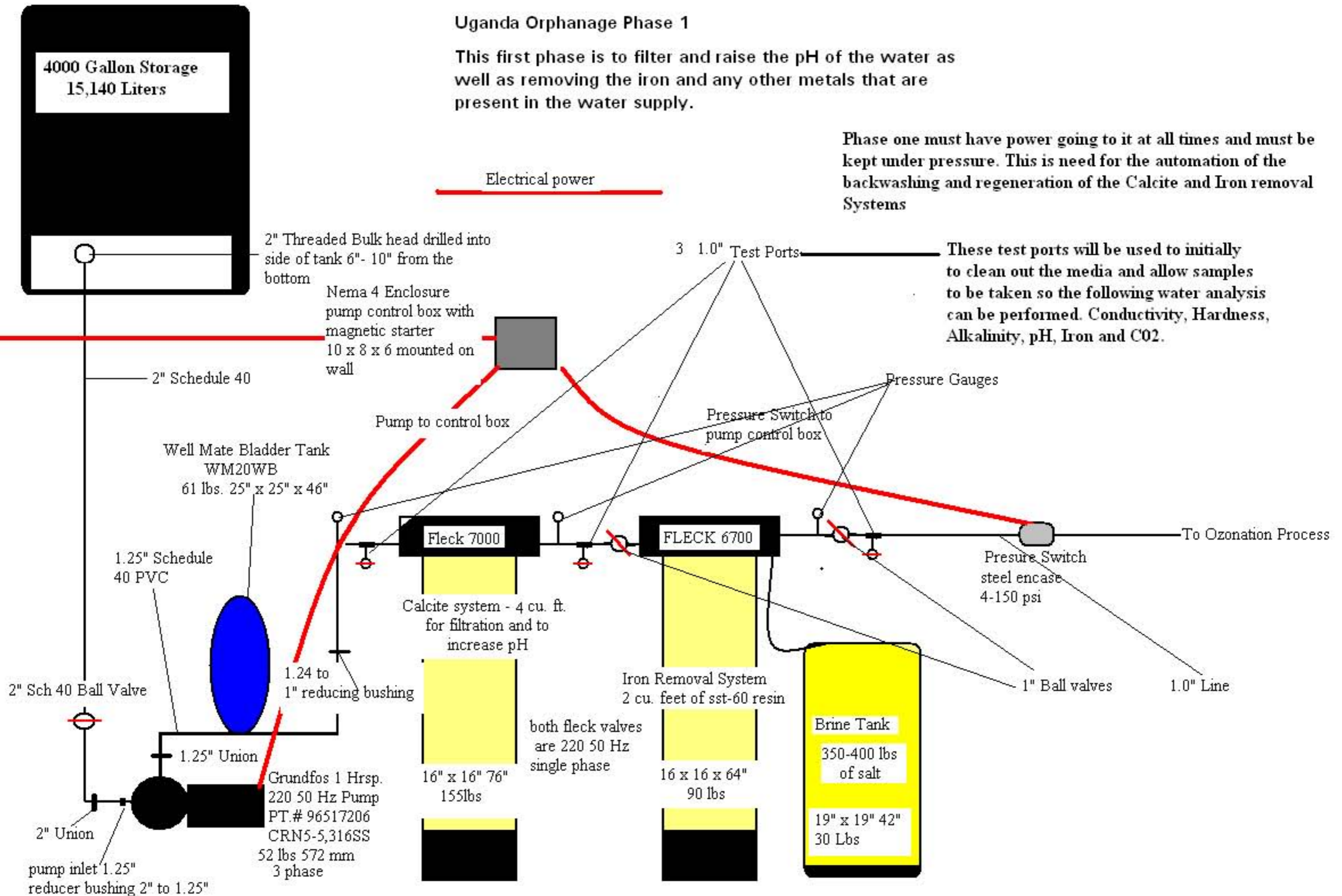


## Uganda Orphanage Phase 1

This first phase is to filter and raise the pH of the water as well as removing the iron and any other metals that are present in the water supply.

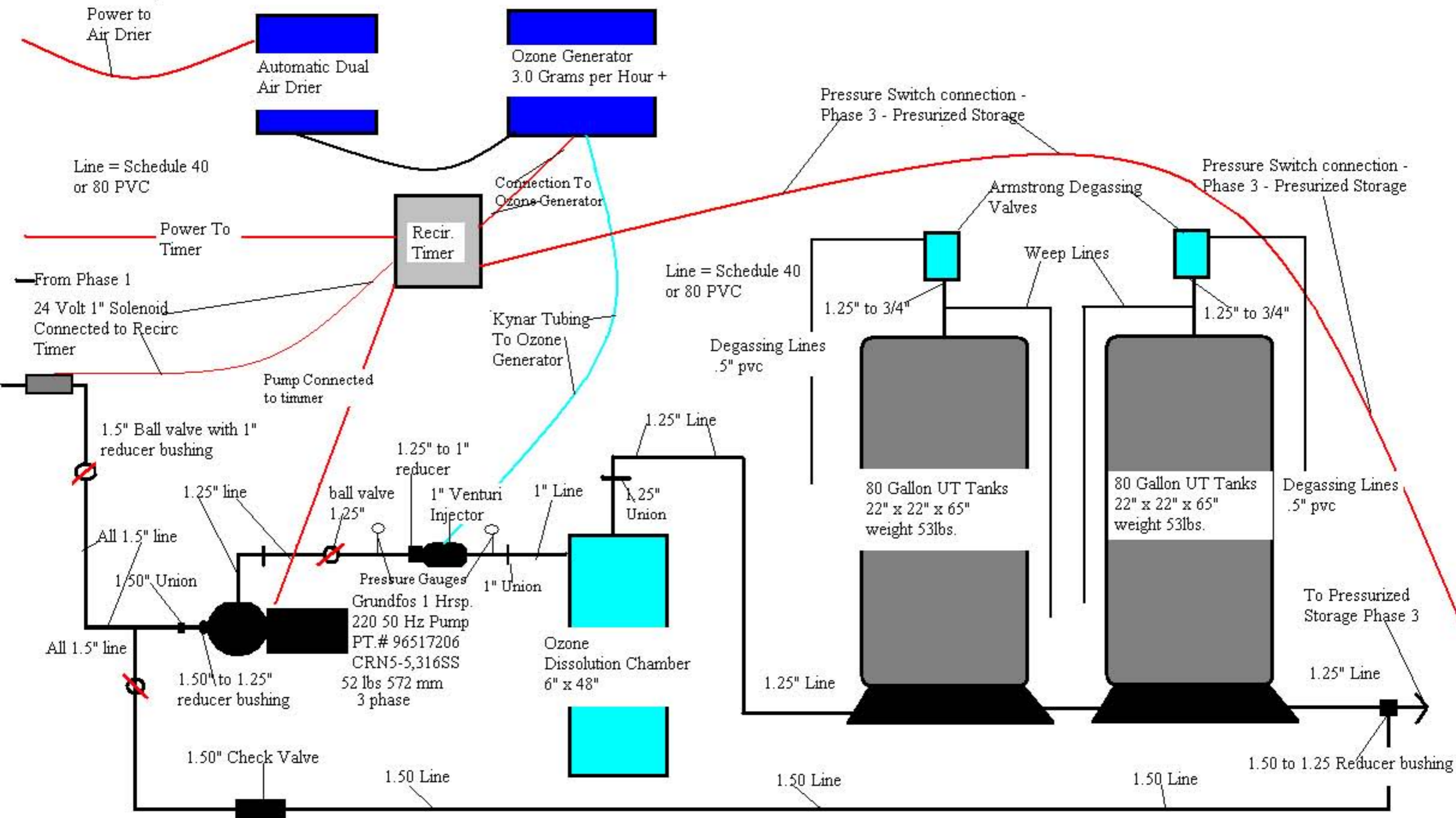
Phase one must have power going to it at all times and must be kept under pressure. This is need for the automation of the backwashing and regeneration of the Calcite and Iron removal Systems



## Uganda Orphanage Phase 2

### Disinfection

The second phase is to provide disinfection through the process of pressurized ozonation. This process will kill bacteria, viruses as well as other pathogens that may be present. These will then be oxidized to a gas and escape in the atmosphere. This process will also eliminate any hydrogen sulfide and other odors that may be present.



## Uganda Orphanage Phase 3 Finale Phase

Phase 3 is the last phase this is where the water will be stored under pressure until ready for use. With 3 bladder tanks at a pressure of around 30 to 50 lbs. There should be around 80 gallons of usable water at one time before the system initiates automatically - repressurizing itself. Shown in the diagram are 2 3/4" spigots more can be added it is suggested not to go above 3.

Pressure switch connected to recirc. timer in phase 2

