

# **The Pulsar® 4 System Specifications**

1. The Sanitization System shall be a Pulsar 4 System and shall operate in a non-pressurized manner to ensure optimum safety and ease of operation.
2. A post filter recirculation loop will be added to the main pool recirculation system as part of the Pulsar 4 System. The recirculation loop will provide the inlet water supply to the chlorinator as well as the vacuum to evacuate the chlorinated solution.
3. The Sanitization System shall be N.S.F.® listed.
4. The Sanitization System shall incorporate the principle of spray technology. Water shall spray through the grid of the Briquette Tank making contact with Pulsar® Plus Dry Chlorinator Briquettes. The briquettes shall be in contact with the water for a short time creating a chlorinated solution which will fall into the discharge tank. The chlorinated solution shall be drawn by the vacuum from the discharge tank and introduced into the recirculation system. The output shall operate with a vacuum range between 5" and 29" Hg.
5. The vacuum is created by a Mazzei venturi, model 1585X, which is installed in the post-filter recirculation loop driven by a 1 hp Pulsar pump. The venturi is installed on the discharge side of the Pulsar pump creating a flow through the venturi, which provides the suction on the discharge valve evacuating the discharge tank. An emergency shutoff valve shall ensure that water flow to the spray manifold is shut off in the unlikely event that the discharge tank has not emptied properly.
6. The System will operate with an inlet water pressure of 27-30 psig. The inlet water is supplied from the 1 hp Pulsar pump.
7. The Briquette Tank shall have a capacity of two hundred (200) pounds of Pulsar® Plus Dry Chlorinator Briquettes.
8. A timer and ORP controller shall control the chlorine output. The timer has twenty-one settings. One knob controls the off time which ranges from 18 seconds to 54 minutes and is called out from A (18 seconds) to G (54 minutes). The on time is controlled by a second knob which has 3 settings, ranging from 10 to 30 seconds, low being 20 seconds, normal being 10 seconds and high being 30 seconds. The timer will allow a minimum available chlorine (AvCl) output of 1 lb/day and will allow a maximum available chlorine (AvCl) output of 360 lbs./day. Follow recommended timer settings in Operator's Manual.
9. The Sanitization System shall be capable of functioning in temperature between 40° F. and 130° F.
10. The Sanitization System shall operate with Pulsar Plus Dry Chlorinator Briquettes having 65% minimum available chlorine with a 0.4 to 0.6% scale inhibitor (by weight).
11. The Sanitization System shall be capable of satisfactory performance if installed as per the Manufacturer's recommendations (Reference Pulsar 4 Installation Manual). An Authorized Representative of the Manufacturer shall be located within a reasonable distance of the facility and shall be available to install and service the system as required.
12. Manufacturer warrants parts of the Sanitization System to be free of defects in workmanship and material for 2 years from date of installation.