

# The Pulsar<sup>®</sup> 1 System Specifications

1. The Sanitization System shall be a Pulsar 1 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 1 System. The recirculation loop will provide the vacuum to evacuate the chlorinated solution.
3. The Sanitization System shall be N.S.F.<sup>®</sup> listed.
4. The Sanitization System shall incorporate the principle of “Wave” technology. Water shall rise in a “wave” from a submerged nozzle on to the grid of Briquette Tank making contact with Pulsar<sup>®</sup> Plus Dry Chlorinator Briquettes. The briquettes shall be in contact with the water creating a chlorinated solution which will fall into the discharge tank. The chlorinated solution shall be drawn by 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 an Arch venturi, which is installed in the post filter recirculation loop. The venturi is installed on the pools return line and a valve situated between the inlet and outlet of the venturi loop is partially closed causing a pressure differential thereby establishing flow though 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 wave nozzles 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 2-20 psig. The inlet water is supplied from the pressure in the pool return line.
7. The Briquette Hopper shall have a capacity of twenty eight (28) pounds of Pulsar<sup>®</sup> Plus Dry Chlorinator Briquettes.
8. The chlorine output shall be controlled by the inlet flow rate which has a operating range of 0.2 – 1.05 gpm. In addition an ORP controller may be used for more precise control. The inlet flow rate will allow a minimum available chlorine (AvCl) output of 0.5 lb/day and will allow a maximum available chlorine (AvCl) output of 28 lbs./day.
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 1 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 (excluding electrical components) of the Sanitization System to be free of defects in workmanship and material for 2 years from date of installation.