

Soda / Soft Drink Machine - for Glass Bottles - Pneumatically Operated

The Machine is a one man Factory for making Soda and Soft drinks. Since this machine is pneumatically operated, it is easy to use and convenient. It requires an air compressor of 1.5 Hp. Approximately 4000 bottles can be made in a shift of 8 hours. It consists of the following main components:

- **Pump :** It is a three piston pump with a capacity to pump approx. 450 liters per minute. A motor of ½ Hp is provided for the pump. The pumped water is fed into the Carbonator through a series of non-return valves. The fixed pumping speed ensures that the proper quantity of water is fed to the Carbonator and in turn the carbonating ratio between water and Co2 is maintained.
- **Pressure Regulating Valve :** The PRV ensures that a fixed pressure of Co2 is fed into the Carbonator. In effect it is the heart of the machine and its maintenance and normal functioning is vital to the machine and quality of drink. The PRV can be adjusted for various pressures according to the soda/soft drink being made.
- **Carbonator :** The Carbonator tank is made of stainless steel and houses a shower and series of SS plates. Gas and water are mixed in the tank. The shower and special SS plates inside ensure that the water passing through it is saturated thoroughly thereby ensuring optimum carbonation.
- **Filling head :** A Pneumatic cylinder is fitted for the filling and crowning operation. First a crown cork is fixed inside the head. Then a bottle is kept on the bottle table. The Filling lever is pressed & soda flows into the bottle through a filling valve. To eliminate the air inside the bottle, a snifting valve is provided. Thus when the bottle is being filled, the air is eliminated through the snift valve. Due to this, some amount of soda also flows out through the snift valve. This is unavoidable. When the bottle is full, the filling lever is released and the crown corking lever is pressed which operates another pneumatic cylinder. The bottle is then removed and the next crown cork and bottle are kept and the whole process is repeated.
- **Stand :** This is the main pillar of the machine. The Carbonator, pump, filling head and motor are all fitted onto it. The stand is made of Cast Iron thus ensuring a long life.
- **Motor :** The motor is 1/2 HP either single phase or three phase. This is a 1440- RPM motor. This RPM ensures that a fixed quantity of water is pumped into the Carbonator ensuring optimum carbonation.
- **To make Soft drinks :** The syrup concentrate is previously filled into the bottle. The bottle is then kept on the machine and soda filled. The force with which the soda flows into the bottle (since soda is flowing from a higher pressure inside the carbonator to the atmospheric pressure of the bottle) ensures that the previously filled syrup mixes with the soda and the soft drink is ready. This method of making soft drink is called Post mix system.
- **Accessories supplied with the machine :**
A detailed catalog of the machine: An exploded view of each section of the machine helps in the maintenance and spares parts ordering. A separate section is devoted to the fault finding procedure for each section of the machine wherein are explained the various reasons of a complaint and the methods to tackle such problems.



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