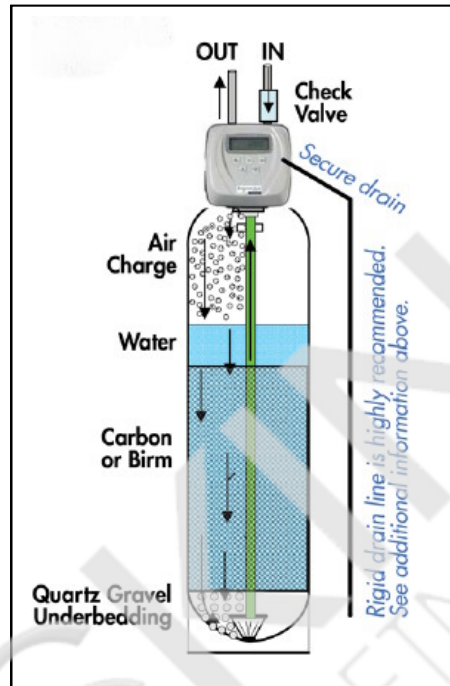
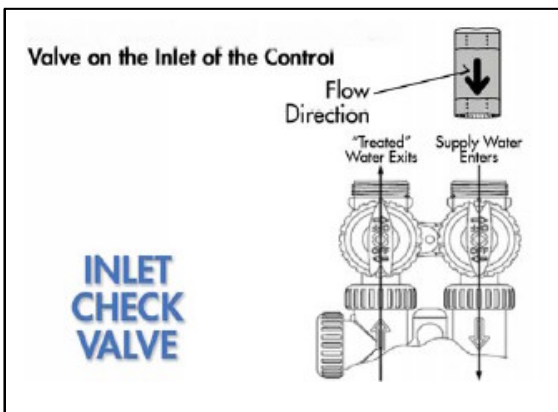
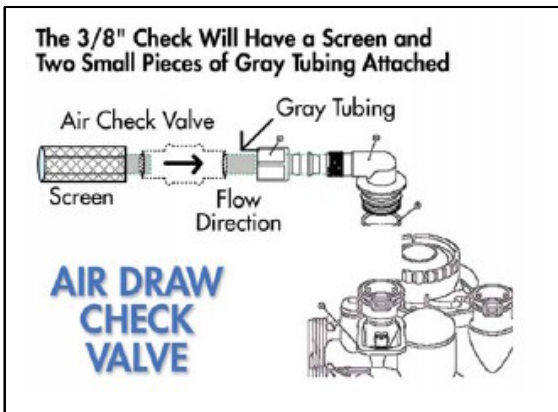


## Details of Hydrogen Sulphide Carbon 1354



## Operation of Hydrogen Sulphide System

### **General Operation:**

The idea of the system is to oxidize the income water for sulphur removal, 5 ppm max. This is accomplished by creating a head of air in a tank which the sulphur laden water passes through which oxidizes the contaminate. As the water flows into the tank (**through a top basket**) it will pass through a "boundary layer" of water, down through the "Centaur Carbon" to the outlet.

### **Regeneration Sequence:**

Regeneration of unit is every 2 or 3 days. As the sulphur is oxidized, reduction of the air head occurs. The more frequent regeneration keeps our "air" head in the tank.

#### **Position 1:** Backwash

Backwash flow control sized as a normal carbon filter 8-10 GPM/Sq. Ft. Area. Backwash 8-12 Minutes

**Position 2:** "Brine Draw" as we normally know it. This will now be "Air Draw". Allow unit to enter brine draw position (see brine screen and check on separate page) and draw air for 60 Minutes. This will evacuate the tank of water.

#### **Return to service.**

**Note:** Upon returning to service, the inlet water will enter the tank and compress the air within it. The water entering the tank compresses the air and will stop flowing into the unit once the pressure equalizes. Once the pressure equalizes, usually the water level in the tank is around 14" from the top of the tank, creating a 14" dome of air.

#### **Assembly Info:**

An inlet check valve is required to hold the air in the tank not allowing it to escape out the inlet.

A screen (to keep bug, ect.) the injector clean and check valve is required on the "brine" connection so as the controller passes by the brine refill port on the way to service we do not "shoot" water out the air screen assembly.

**Assembly note:** A 13x54 tank is typically used for domestic purposes. Because of the "air head" and boundary layer of water, we only use 1 Cu. Ft. of carbon. We need the extra freeboard in the tank.

**Installation Note:** Drain must be secure, when unit first goes into backwash air is discharged down the drain. This can cause drain line to "jump around" if not secure.

Upon initial start up of equipment, it is best to soak the carbon in water (for 24 hrs.) before applying a full backwash to unit