



Heliodor Solutions' units remove hydrogen sulfide from process vapor streams. The following information is required to design a system to meet your operational needs:

Pressure:	psig
Temperature:	°F
Flow rate:	mmscfd
H ₂ S:	ppm
BTU value	BTU/cf
Stream Composition:	mol%

The composition of the influent gas stream and the outlet H₂S specification requirement will determine the number and the size of the pressure vessels required. The simplest system, depicted above, is a single vessel with a gas inlet/outlet and a drain. This system does not include storage for either fresh chemical or spent solution. HS-1500 solution is pumped directly from the delivering trailer into the pressure vessel. Spent solution is either pumped into a disposal well or into a trailer to be hauled off for disposal. A more detailed Process Flow Diagram can be designed to specific gas parameters, upon request.

Gas enters near the bottom of the primary vessel online and exits the top. The gas stream exiting the vessel is monitored for H₂S, which is easily accomplished using an online detection device or a drager type tube. The H₂S reading is used to determine when the chemical solution needs to be replaced.

Heliodor Solutions supplies the HS-1500 chemical solution and pressure vessels. The customer provides foundation, piping, pumps and instrumentation. Heliodor Solutions will monitor the system startup and initial operation and also train personnel to oversee continuous operation and to conduct chemical change out.