

## COMPRESSOR SYSTEM

This SpiralX BTEX emission system is used where 100% capture of emissions is required and there is either a flare or pipeline that can receive the gases. The basic principle of this system is varying the speed of a rugged vane compressor as a function of the output of the dehy still column. The still column output is first separated into liquids and gases. The gases are then compressed and sent to its final destination, which can either be up to 60 psig, or 200 psig, depending on the configuration.

1. The system comes with either a single compressor (single-stage), dual compressors in series (two-stage) or parallel (redundancy), each with its own application depending on the user's needs.
  - Single-stage: back pressure ratings up to 60 PSI used to send BTEX to a flare for destruction.
  - Two-stage: back pressure ratings up to 200 PSI for feeding back into BTEX line for 100% containment.
  - Redundancy: designed for safety backup and more convenient maintenance.
2. Feedback loop for BTEX exhaust eliminates the need for a means of destruction, potentially avoiding the need for BTEX elimination permits.
3. Feedback loop design ensures 100% VOC containment for more contained operation than inferior designs.
4. SpiralX compressor systems use a 30" separator vessel and 35 GPM diaphragm pumps to adequately remove condensate during normal and upset conditions.
5. SpiralX compressor designed with variable frequency drive (VFD) for automated temperature control within the oil cooling circuit.



### Default components:

- Fisher regulators
- Versamatic diaphragm pump (pneumatic), MTH pump (electric)
- Versa pilot valves
- AMOT thermostat control valves
- RoFlo compressor
- SLOAN lubrication system
- Rosemount liquid level monitors

Features:

- Level glass mounted on accumulator tank to show liquid level during operation.
- Liquid level control to automatically purge accumulator tank.
- High level shut down system to prevent condensate from entering next stage of BTEX removal.
- Rated for Class I, Group D, Div. I or II, whichever is required.
- Regeneration capability ranges from 200,000 - 3.5MM BTU/hr.



