

## ADSOLV SOLVENT RECOVERY SYSTEM

This RaySolv solvent recovery technology is based on the highly proven combination of activated carbon adsorption and direct steam desorption. This technology is well known and easily adapted to today's complex manufacturing, printing and production systems. Recovery efficiencies of 99.0% are quite common while payback periods can be dramatically short. Historically, no other type of system technology even approaches the wide range of successful recovery application experience that steam desorbed activated carbon systems represent.

Solvent laden air flows through a filter/cooler before entering a blower. This blower then forces the solvent laden air stream through an adsorber vessel containing activated carbon. A minimum of two adsorbers is required to provide continuous operation. Solvent contained in the process air is adsorbed by the activated carbon and clean air is released to atmosphere. When an adsorber vessel becomes saturated with solvent, the air stream must be transferred to a previously regenerated adsorber. Regeneration of the saturated adsorber then proceeds by using steam in a direct contact thermal desorption process. Desorbed solvent can then be condensed and decanted for return to the process where it can be reused. If your solvent system requires further treatment, a custom engineered, packaged Distillation System can be provided to do the job.

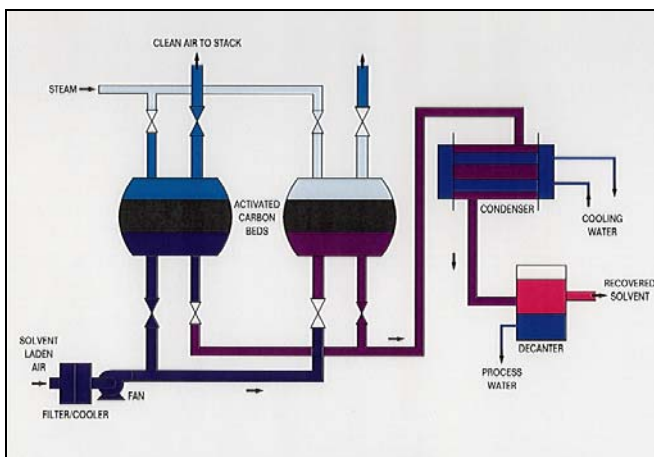
Our custom engineered **ADSOLV SYSTEM** plants have successfully proven themselves in over one hundred major installations world-wide.



80,000 CFM ADSOLV Acetone Recovery System - for Synthetic Resin



3,300 CFM Skid Mounted ADSOLV Pentane Recovery System with inlet HCl Scrubber - Styrofoam intermediate Manufacturing



ADSOLV System Flow Diagram

This wide ranging application experience can be put to work for you and can offer the following benefits and features:

- Dramatically short payback periods.
- Energy optimization packages.
- Recovery efficiency optimization packages.
- Highly dependable and efficient programmable controller based automatic control systems.
- Guaranteed quality and performance.