

SYMEX VAPOUR RECOVERY SYSTEMS (VRS)

Function

Treatment by recuperative techniques of pollutant vapours containing VOCs (Volatile Organic Components).

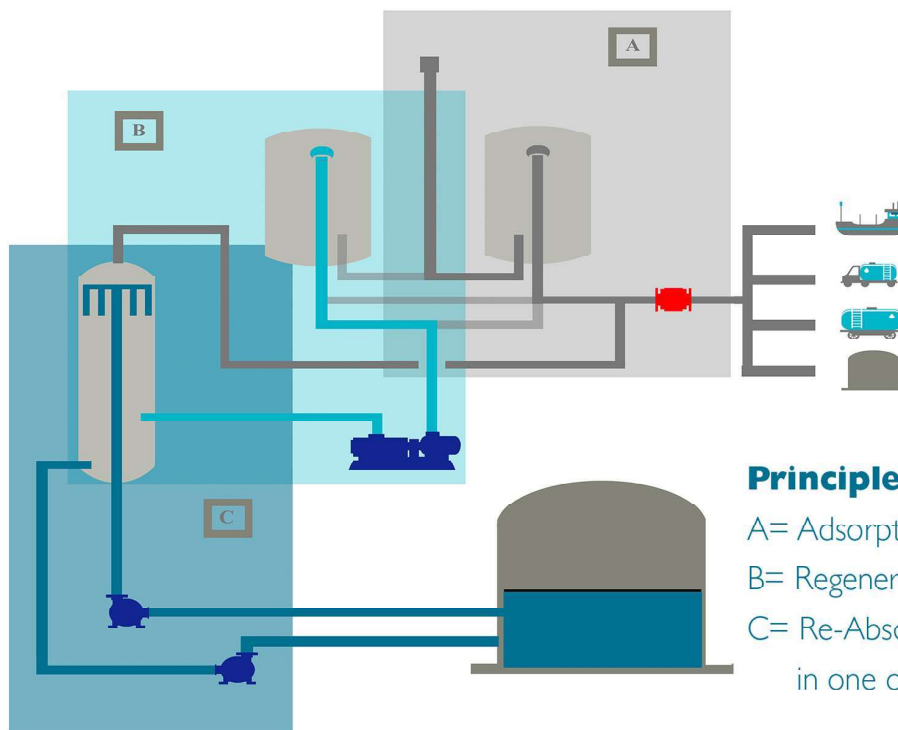
Symex VRS provide:

- Increased safety on the Terminal by recovering a potentially explosive mixtures.
- Protection of the environment by drastically reducing the VOC emissions on their Terminal.
- Protection of the health of the staff, neighbours and visitors who are exposed to these toxic vapours.
- Prevention of product vapour losses, turning them into a valuable liquid product.

SYMEX provides to customer:

- Complete Feasability Studies
- Turnkey Vapour Recovery Units
- Rewamping of existing systems.
- Complete logistics from door to door
- After-sales Services
- Training





Principle

A= Adsorption on Activated Carbon.

B= Regeneration by dry screw vacuum pumps.

C= Re-Absorption of the concentrated vapours in one of the products of the terminal.

Applications

- Emissions related to the the handling of Petrochemical and chemical products: Aliphatic Hydrocarbons, Olefins, Aromatics (BTX), Alcohol's, Crude oils, Naphtha and Ethers...
- Loading / Unloading Operations of trucks, rail cars, sea going vessels & barges.
- Storage Tank Farm (Tank Breathing, tank to tank transfer).
- H₂S removal.

Advantages

The Symex Technology, if installed and maintained properly, represents numerous advantages.

- The energy consumption reduced to the minimum by using frequency controlled vacuum pumps enabling a flexible vacuum capacity proportional to the mass of hydrocarbon to be treated.
- The dry screw technology allows treatment of a wide range of hydrocarbons molecules.
- The life time of the Activated Carbon is improved due to the controlled regeneration technology, which is providing a balanced hydrocarbon charge on the Carbon in adsorption and regeneration phase. In combination with an improved and proprietary vapour distribution system inside the activated carbon beds the dust-formation is limited to a minimum.
- The systems are simple, compact and easy to operate and maintain.
- Symex' References of the Dry Screw Technology are available since 1999.
- The system is designed explosion proof and complies with ATEX regulation.

SYMEX

SERVICES

SYMEX COMPANY has the knowledge and expertise to assist her clients with feasibility studies and implementation suggestions to most effectively treat and control their various gaseous effluent opportunities

- Analysis of the different vapour sources.
- Vapour flow profile calculations and unit sizing.
- Location and interconnection of the unit on the terminal.
- Pipeline design (routing, sizing, material selection and pressure drop calculations, etc...)
- Economic study

VOC's recovered

- Aliphatic Hydrocarbons
- Olefins
- Aromatics (BTX)
- Alcohol's
- Crude oils
- Naphtha
- Ethers...



AFTERSALES SERVICES

Client's long term satisfaction is in the heart of SYMEX' philosophy, knowing that a good functioning and experienced after sales network is predominant to keep the customers happy on the long term.

SYMEX' commitment is to provide after sales service and operator training for an effective, efficient and long life time performance to the units.

To reach her goals SYMEX has a team of well-trained service specialists and local partners having a staff of professional field service engineers to meet the specifics of any terminals and units.

SYMEX offers to her clients

- 24/7 technical support because your Terminal never stops.
- Solutions with local partners to ensure arriving on site within the time scale required to meet your commercial obligations.
- Spare part management to make sure you will quickly have the best quality equipment at all times.
- Comprehensive preventive- and full risk maintenance contracts.
- A unique satellite supported monitoring and warning system

