

# Solutex Solvent Recycling Systems

## SAVES MONEY

Reduce costs with savings on new solvents and waste disposal.

## ENVIRONMENT FRIENDLY

Recycle solvents and reduce waste. Less waste for removal from site. Less new and waste solvents required to be stored on site, lower hazard. No emissions from plant. Can be part of ISO 14000.

## SAFE AND EASY TO USE

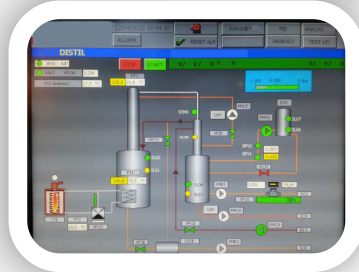
All machines CE approved and models for flammable solvents are ATEX certified.



Simple controls for ease of use.

## BESPOKE DESIGN

All machines are designed individually according to the customers requirements ensuring the equipment meets the level of purity and flow rate required.



## Fractionating

Fractionating columns provide fractional distillation that allow the separation of solvents with different boiling points producing almost total separation of solvents from liquid pollutants. The system can produce sufficiently pure solvents that allow their reuse in the original process.

The fractionating column features anti-splash devices and high efficiency packing material that ensures high performance washing of the vapour liquid counterflow. A head condenser makes it possible to regulate the forced reflux in the column in order to support the separation of the various components of the mixture being treated.

The plant includes a vacuum group consisting of a liquid ring pump in closed circuit with a dedicated cooling tank and special vapour condenser.

The plant can work 24/7 with automatic liquid loading and unloading of distillate and residue.

A special PC board with display provides total control of temperatures and regulation of distillation speed.

# Fractional Distillation

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## Typical Applications



### Plant for Production of Distillates

The fractional distillation columns are suitable for numerous applications in various sectors of industry.

One of the most common applications is the production of distillates from crude hydrocarbons.

White Spirit is a good example as this product is a derivative of kerosene a common combustible hydrocarbon solvent. It is widely used as aviation fuel as well as heating fuel.

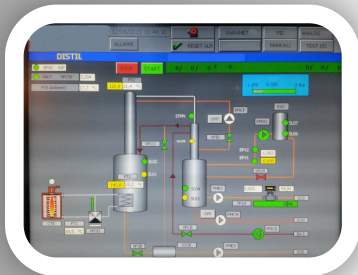
White Spirit is a light fraction of kerosene that can be separated using distillation. In order to obtain the required purity the distillation process must be done with a fractionating column that produces the product with the right characteristics through continuous refluxing.

The part of the kerosene that does not evaporate during the process can be combined with certain additives to easily become heating fluid.

The benefits of this type of plant are therefore two-fold, a plant that produces white spirit and heavy fuel at the same time.

The whole plant can include storage tanks and additive dosing for complete automation controlled by a touch screen PLC.

The touch screen allows a continuous remote control of all functions right up to the distribution of the heavy fuel to road tankers for transportation off site.



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## Special Designs

If you need something special we can design and build a plant to suit your specific requirements no matter how big or small.

With many special installations worldwide its likely that we have supplied something similar before. So, if you think that its not possible with your process, then talk to us, you may find we already have the answer.

The equipment is already working for many well known companies worldwide in virtually every sector of industry so you can be sure its well proven and reliable.

Our relationship does not end with a sale, we forge long term relationships with our customers, helping them maintain equipment and answering any technical queries they may have.



Equipment installed by fully trained engineers

**CUSTOMER SUPPORT** is available anywhere and our trained technicians can service and repair equipment swiftly and efficiently.

Many of the worlds leading companies can testify to the quality, reliability and cost effectiveness of the equipment.



## CAPABILITIES

- Fractionating columns
- Plants in special materials
- Test facilities and pilot plants for testing and verifying results
- All manufactured in accordance with the latest regulations.

## CONSULTATION

We will work with you to find a solution to your recycling needs. Experts are available every step of the way to provide assistance and help.

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## TECHNICAL SUPPORT

Help and advice is available free before, during and after purchase. We will help you select the right machine and advise on installation. We can also install, commission and train operators if required.

## SERVICE

Like any machinery, our distillers require servicing periodically. Our engineers are equipped to perform services at your premises if required.

Consumable items and spare parts are readily available from stock.

## TURNKEY SOLUTIONS

For those requiring a turnkey solution to their recycling needs, we can design and install everything required to meet your demands.

For more information on any of our products or services please contact us :



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