

HPS Series Vacuum Evaporation Systems

Internal immersed heating coil

Water treatment made easy!

From 240 to 6000 litres per day

Evaporators for the treatment of industrial wastewater.

Recognised as BAT (Best Available Technology) under European Directives for wastewater treatment. Evaporators are completely automatic with microprocessor control for continuous operation with minimum operator assistance. Evaporators provide high concentration ratios with a high quality distillate, good levels of separation with the option to recycle. Waste volumes for disposable can be reduced significantly with up to 98% of wastewater for re-use.



- ◆ Fully automatic
- ◆ Energy efficient
- ◆ Easy to install
- ◆ Easy to operate
- ◆ Saves money
- ◆ Helps the environment
- ◆ Instant reuse of recycled water
- ◆ Reduce waste disposal costs
- ◆ Meet consent limits for discharge
- ◆ Suitable for numerous applications
- ◆ Wide range of options available
- ◆ Leasing plans available

The easy way to treat industrial wastewater

SAVES MONEY

Can reduce water consumption and waste disposal costs.

ENVIRONMENT FRIENDLY

Recycle water and reduce waste. Less waste for removal from site. Reduce storage of waste liquids on site. Can be part of ISO 14000.

SAFE AND EASY TO USE

All machines CE approved. Simple controls for ease of use.

FREE TEST ANALYSIS OF YOUR WASTE WATER

Send us a sample of your waste water for laboratory testing. We will provide analysis results and recommend suitable equipment.



FREE CONSULTATION

We can visit site, assess your processes and advise on the best way to treat your waste water.



Technology Overview

MICROPROCESSOR CONTROL



Total process control with fault find function.

HEAT PUMP (HP) SYSTEM



Heating and cooling in one single unit with low energy consumption.

QUALITY

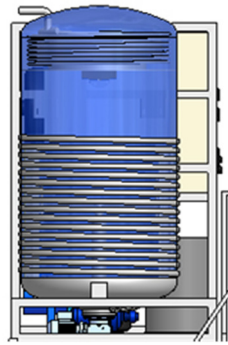
High quality robust construction



with worldwide parts availability.

SAFE TO USE

All machines CE approved.



HPS series Vacuum evaporators feature an internal boiler heating coil for efficient heat transfer to produce a highly concentrated residue. Some ideal applications include wastewater from die casting, metal treatment, surface treatment, degreasing, machine coolants etc. Evaporators can remove suspended solids, heavy metals, colour pigments and other non volatile products producing a distillate that in most cases can go the sewer system without further treatment in compliance with local regulation or be recycled.

The Solutex range of standard systems ensures a solution to every application. With increasingly stringent pollution control regulations, vacuum evaporation is an ideal way to deal with the use of natural resources and their disposal.

By exploiting the technologies of heat pump and vacuum distillation a maximum yield can be achieved with low energy consumption.

Under vacuum the boiling point of water is reduced to 35 – 40° C, using heat pump technology the same circuit is used for heating and cooling and the amount of energy required is reduced considerably.

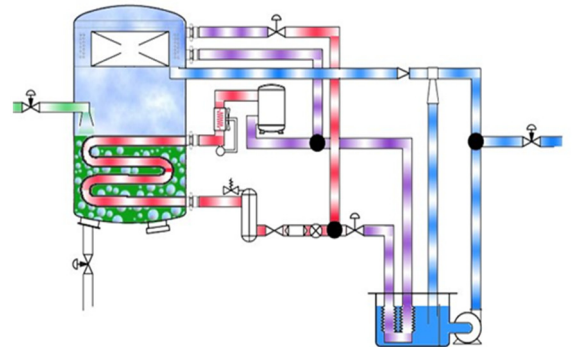
Standard units constructed in stainless steel 316 but other materials are available depending on the application.

Controlled by a programmable PLC with easy process control.

Evaporators are fully automatic and can operate 24/7 unattended and only minimal intervention by personnel is required. They require no pumps for waste loading or distillate unloading. Process residues are unloaded by valve or optional pump.

A synoptic panel shows all process functions. On larger models a touch screen PLC provides even greater control.

Wastewater Evaporators are supplied fully assembled and only need connection to services making them easy to install.



HIGH QUALITY DISTILLATE



All models produce a high quality distillate.



HEAT PUMP TECHNOLOGY

COMPACT, SKID MOUNTED

Supplied ready to connect to your services.

INDUSTRIES

Health Care
Chemicals
Mechanical surface treatment
Biogas
Food
Oil & Gas
Power
Mining
Landfill
Printing
Painting

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

Email: info@solutex.co.uk

Telephone:

+44 (0) 1691 622225

Web:

www.solutex.co.uk

Standard Models

| Model | Capacity* | Options | Standard |
|--------------|---------------------|---------------|--|
| WT 0010-HP-S | 240 litres per day | 1,2,3,4,5,6,7 | Equipped with cycle timer Opening boiler top |
| WT 0013-HP-S | 312 litres per day | 1,2,3,4,5,6,7 | Equipped with cycle timer Opening boiler top |
| WT 0020-HP-S | 480 litres per day | 1,2,3,4,6,7 | Equipped with microprocessor and synoptic display panel |
| WT 0030-HP-S | 720 litres per day | 1,2,3,4,6,7 | Equipped with microprocessor and synoptic display panel |
| WT 0050-HP-S | 1200 litres per day | ,2,3,4,6,7 | Equipped with microprocessor and synoptic display panel |
| WT 0090-HP-S | 2160 litres per day | 2,3,6,7 | Equipped with microprocessor and synoptic display panel |
| WT 0130-HP-S | 3120 litres per day | 2,3,6,7 | Equipped with PLC Siemens S7-1200 touch screen 5.7" |
| WT 0160-HP-S | 3840 litres per day | 2,3,6,7 | Equipped with PLC Siemens S7-1200 touch screen 5.7" |
| WT 0220-HP-S | 5280 litres per day | 2,3,6,7 | Equipped with PLC Siemens S7-1200 touch screen 5.7" |
| WT 0250-HP-S | 6000 litres per day | 2,3,6,7 | Equipped with PLC Siemens S7-1200 touch screen 5.7" |

Options

- 1 Automatic waste discharge pump with DN 15
- 2 Automatic waste discharge pump with DN 25
- 3 Anti-foam Pump
- 4 Higher frame for discharge of residue
- 5 Microprocessor and synoptic display panel
- 6 Automatic cleaning system
- 7 PLC Siemens S7-1200 touch screen 5.7"

* based on mains water +/- 10%

EASY INSTALLATION



Machines are delivered fully assembled, skid mounted and ready to work. Connection to services is all that is required in most cases. If you prefer, we can install, commission and train operators providing a turnkey package.