

HS/HW Cf Series Vacuum Evaporation Systems

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



Water treatment made easy!

From 9600 to 192,000 litres per day Evaporators for the treatment of industrial wastewater using external heat source of hot water or steam.

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 reuse.



- ◆ Fully automatic
- ◆ Single, double or triple effect
- ◆ 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

Technology Overview

PLC CONTROL



Total process control.

QUALITY

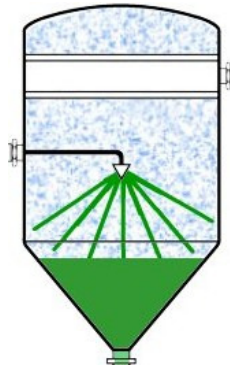


High quality robust construction with worldwide parts availability.

SAFE TO USE



All machines CE approved.



HP Cf series Vacuum evaporators feature forced circulation for higher flow rates and most types of liquids. This produces 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.

The heating is not generated by Freon as in heat pump units but by means of an external jacket heated by hot water or steam. The vapour condensation is performed with air or water condensers. Simple in their manufacture and maintenance, they guarantee a high production because of the good thermal exchange of water/steam.

Also available with internal boiler scraper. They are utilised for treating large daily quantities with encrusting products. The scraper supports the thermal exchange and the concentration of the process residue, avoiding at the same time any encrustation on the heating surface.

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

Controlled by a Touch screen PLC.

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.

Anti-foam dose pump included.



Technology Overview

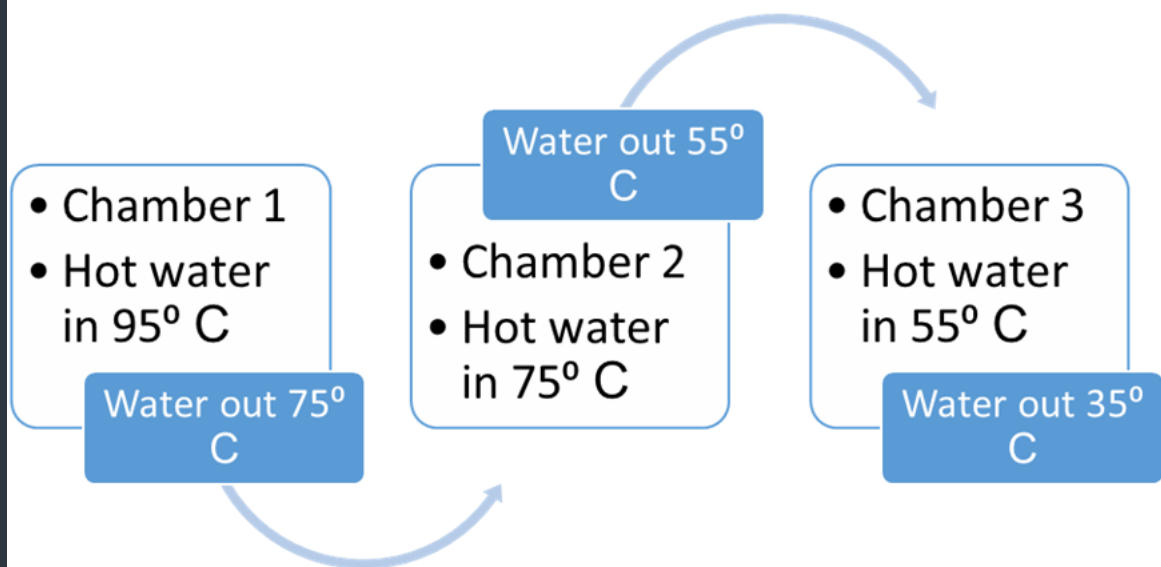
Multi-Effect Evaporators

In this kind of plant heating water or steam are utilised for making the liquid evaporate in the first expansion chamber. The steam produced is utilised by a heat exchanger, for making the liquid evaporate in the second evaporation chamber. This procedure, which can be repeated for a third effect, is possible because the vacuum generated in the second expansion chamber is stronger than the vacuum generated in the first one.

They are suitable for treating large daily quantities and for :

- concentrations to 20% of suspended solids
- concentrations to 1.25 kg/litre of density

The distilled product output is sterilised from the process ; particularly suitable for food and pharmaceutical production. For a higher concentration, they can be combined with an auxiliary plant, after the treatment, equipped with inner scraper.



HIGH QUALITY DISTILLATE



All models produce a high quality distillate.

COMPACT, SKID MOUNTED

Supplied ready to connect to your services.

INDUSTRIES

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

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

WT 0400-HS-Cf	9600 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0500-HW-Cf	12000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 1000-HW-Cf	224000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 2000-HW-Cf	48000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0250-HS-Cf-2E	6000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0500-HS-Cf-2E	12000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 1000-HS-Cf-2E	24000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 2200-HS-Cf-2E	52800 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 2000-HS-Cf-3E	24000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 2800-HS-Cf-3E	67200 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 3600-HS-Cf-3E	86400 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 4500-HS-Cf-3E	108000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 5000-HS-Cf-3E	120000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 6000-HS-Cf-3E	144000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 7000-HS-Cf-3E	168000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 8000-HS-Cf-3E	192000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"

Options

- 2 Automatic waste discharge pump with DN 25
- 6 Automatic cleaning system

- based on mains water +/- 10% HW - Hot Water HS - Steam
- 2E - Double effect 3E—Triple effect



We can install, commission and train operators and