

# HP Cf Series Vacuum Evaporation Systems

forced circulation system with heat pump

Water treatment made easy!

**From 1,200 to 36,000 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 reuse.



- ◆ Single or double effect
- ◆ 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

## PLC CONTROL



Total process control with fault find function.

## HEAT PUMP (HP) SYSTEM

Heating and cooling in one single



unit with low energy consumption.

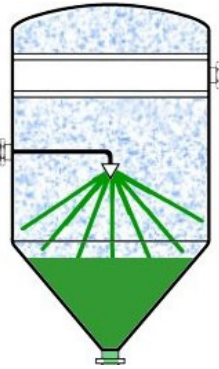
## QUALITY

High quality robust construction with worldwide parts availability.



## SAFE TO USE

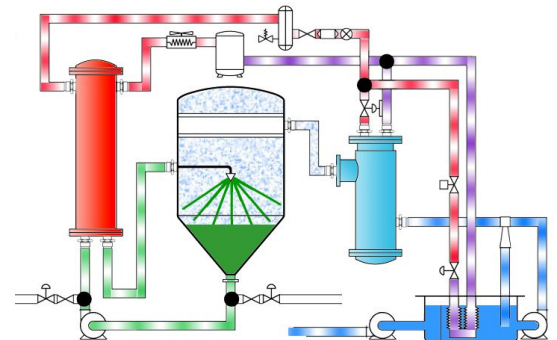
All machines CE approved.



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.

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 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.

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

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# Standard Models

WT 0050-HP-Cf	1200 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0100-HP-Cf	2400 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0120-HP-Cf	2880 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0150-HP-Cf	3600 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0180-HP-Cf	4320 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0200-HP-Cf	4800 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0250-HP-Cf	6000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0280-HP-Cf	6720 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0300-HP-Cf	7200 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0350-HP-Cf	8400 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0500-HP-Cf	12000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0700-HP-Cf	16800 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0500-HP-Cf-2E	12000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 0850-HP-Cf-2E	20400 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 1250-HP-Cf-2E	30000 litres per day	2,6	Equipped with PLC Siemens S7-1200 touch screen 5.7"
WT 1500-HP-Cf-2E	36000 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%

## 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.