



柏樹永續科技有限公司

CYPRESS ECO-TECH LTD.

CONTACT

Welcome To Inquire Special Proposal for You

For your liquid waste treatment needs, we offer a complete service from assessment, planning, equipment selection to on-site installation.

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Sales & Technical Consultant

WHY CHOOSE US ?

Replace traditional high-temperature evaporation with heat pumps to achieve lower energy consumption, better condensation quality. Thanks to great vacuum technology. The evaporation temperature is extremely dropped, and the equipment life time is much longer.



- 01 No need to add Chemicals**
Pure physical evaporation, no secondary pollution.
- 02 35-40°C low temperature evaporation**
The condensate is of good quality and can be reused in the process.
- 03 Extremely low energy consumption**
Only 120-180 kWh of electricity/ton waste liquid.
- 04 Noise < 75 dB**
It can be placed and operated within the factory.
- 05 No exhaust emissions**
No air pollution concern.
- 06 Autonomous operation**
Intelligent control, no need to be on duty.



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LOW-TEMP EVAPORATION CONCENTRATION

Evaporation at low Temperature Concentration Equipment

Low-temperature evaporation and concentration equipment: Heat pump low-temperature evaporation; energy consumption reduced by 40-55%; condensate can be reused; autonomous operation without shutdown.

35-40°C
Evaporation at low temperatures

120-180
kWh / ton

<75 dB
Running noise

90%+
Waste liquid reduction

01 TECHNOLOGY COMPARISON

Technology Comparison

At a glance, the differences between the three major evaporation technologies show that heat pump low-temperature evaporation is leading in energy consumption, water quality, and life.

A MVR evaporator

Mechanical steam recompression

- ✓ Lower energy consumption
- ✗ The effluent water quality is not good
- ✗ Heat exchanger is prone to fouling
- ✗ The compressor life time around 3-year
- ✗ Short lifetime · Loud noise



B Triple-effect evaporator

Traditional high temperature evaporation

- ✓ High heat transfer efficiency
- ✓ Short reaction time
- ✗ The condensate quality is not good
- ✗ Energy consumption 200~280 KWH/ton



C Heat pump evaporator at low temperature

New Generation

- ✓ The condensate quality is good for reuse
- ✓ Energy consumption is 120~180 KWH/ton
- ✓ Long life · Noise <75 dB
- ✓ 35~40°C low temperature operation



OUR CHOICE

Heat pump low-temperature evaporation – optimal energy consumption, water quality, and lifespan



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02 APPLICATIONS · CASE STUDIES

Applications · Case



HOT-ROLLING
Hot rolling waste liquid



CUTTING
Cutting waste liquid

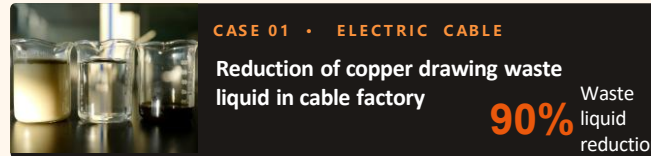


DEGREASING
Degreasing waste liquid



HIGH-COD
High COD waste liquid

REAL CASES · Achievements



Chemical tin waste liquid 85%
Evaporated water can be reused as washing water

Waste liquid from waste oil recycling plant 90%
The emulsion is reduced and operates stably

Suzhou cutting oil waste 90%
4m³/day
80~100 tons per month of cutting waste oil for reduction

Hunan car factory emulsion oil waste liquid ✓
2m³/day
The emulsion is reduced and operates stably

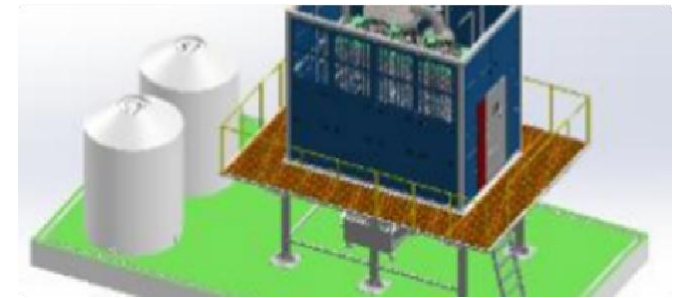
03 EQUIPMENT · CES SERIES

Equipment Specifications

The basic five specifications cover 0.6~10 tons per day; The customer provides compressed air 50 L/min @ 6 kgf/cm².

Model	Throughput	Installation power	Energy Consumption
CES-0.5	0.5 m ³ /day	4.5 KW	180 deg/ton
CES-1.0	1.0 m ³ /day	10 KW	160 deg/ton
CES-3.0	3.0 m ³ /day	21 KW	160 deg/ton
CES-8.0	8.0 m ³ /day	43 KW	140 deg/ton
CES-10	10 m ³ /day	48 KW	140 deg/ton

* Continuous operation for 24 hr/day · Equipment sizes range from 2.1×1.3×2.6m to 4.5×2.4×3.0m



SPECIAL PROJECT · 06

Ammonium Chloride Waste Reduction and Crystallization

Total space required: 6m × 6m × 7mH · 5 tons of ammonium chloride waste liquid per day are reduced and crystallized process.

READY TO START

Technical Consultant



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