EVAPO CONCENTRATOR

Industrial wastewater treatment plant using evaporative concentration, ensuring that discharges comply with legal environmental standards and enabling water recycling.

INDUSTRIAL WATER TREATMENT

DESCRIPTION

Evaporators can effectively treat 15 to 400 l/h of water contaminated with organic compounds through an evaporation-concentration process.

Evaporators operate at reduced pressure, allowing water to evaporate at temperatures below 40°C.

The treated water can then be discharged into public sewers without posing a risk to municipal wastewater treatment plants. Alternatively, the treated water can be recycled in industrial processes.

APPLICATIONS

- Waste baths and rinse water from washing lines.
- Floor washing water.
- Rinse water from anodizing lines.
- Used emulsions.

EQUIPMENT

- Raw water storage tank.
- Evaporative concentrator.
- Level probes, pumps, and solenoid valves.
- Automatic control system for levels, pumps, and valves.

OPERATION

- Raw water storage.
- Treatment with a vacuum evaporative concentrator operating using a heat pump.
- Distillate collection and discharge.
- Fully automated and remotely controllable process.

MAINTENANCE

- Concentrate drainage.
- Replacement of anti-foam containers.
- Cleaning of the unit.
- Regular inspection of the refrigeration circuit
- Annual preventive maintenance carried out by NGL technicians.

BENEFITS

- Compliance with environmental protection standards for industrial wastewater discharges.
- Customized, turnkey solutions.
- Automated, remote-controlled system.
- Support provided by NGL engineers and technicians.
- Small footprint.
- Distillate recycling option.

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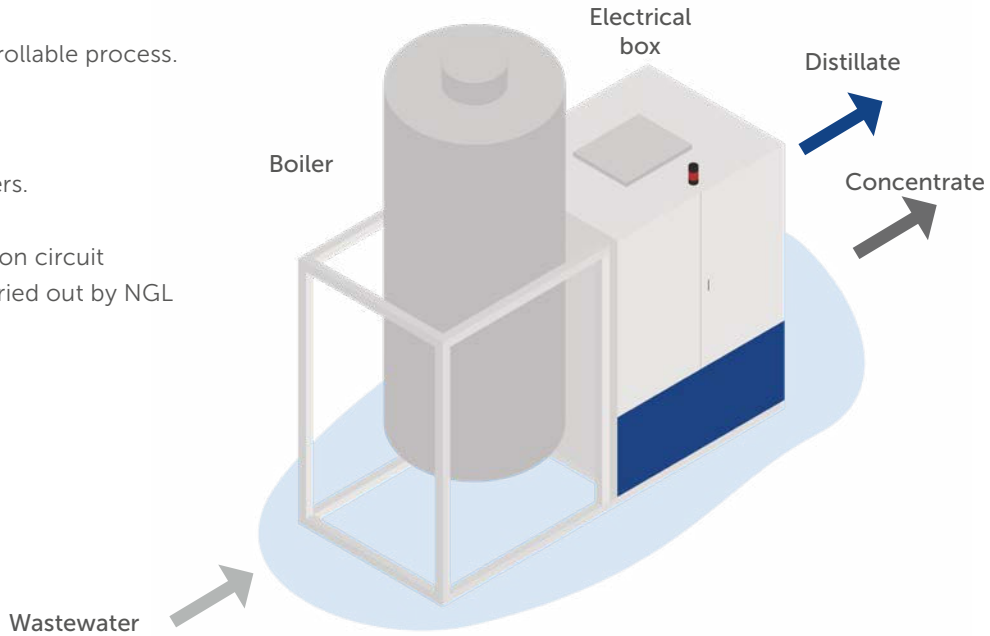
TWO STANDARD MODELS

- Evaporator CVD (with scraper, flow rate :15-100 l/h).
- Evaporator EV (without scraper, flow rate : 15-400 l/h).

PRINCIPLE



If you have any questions, please contact our NGL Water Technology department on: +41 22 365 46 66

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