

Mechanical Wastewater Evaporators

Powerful, locally produced mechanical evaporators and misting machines for enhanced evaporation and dust control.



Our Rhino Mechanical Evaporators are specifically designed to assist with the dewatering of mine wastewater.

Enhancing evaporation with the Rhino Evaporators proves to be approximately 10 times faster than an evaporation pond, and approximately 15 times more cost-effective than any other treatment options.

Another benefit is that, with our mechanical evaporation technology, the need for additional wastewater ponds is not necessary, resulting in huge cost savings to build new plastic lined dams, as well as avoiding additional environmental threats.

We have 4 models available to ensure ultimate customer satisfaction. The following models are available (with their flow delivery):

- 11kw - 29m³/h
- 22kw - 45m³/h
- 45kw – 90m³/h
- 75kw- 144m³/h

Each project is designed to ensure the most cost-effective and environmentally friendly benefits to our clients.

One of the variables of such a design would be to first take into consideration the



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water quality, to determine the correct equipment specifications needed for such a project.

We are capable of dealing with severely aggressive water with PH factors that vary from 2 (acidic) to 11 (alkaline).

Scientific Approach

Evaporation differs from region to region, we therefore established a calculation methodology that considers all external factors such as temperature, wind speed, humidity etc, each of which has an influence on a droplet during evaporation. This calculation is important to us, as our expert engineering and sales team make use of this formula to determine the correct Capex and Opex expenditure of a project, allowing our customers to accurately forecast and budget.

Remote Monitoring

We've leveraged the power of IoT sensors and smartphones to deliver a remote monitoring and control application. The application delivers real-time insights into operations, such as, run hours, flow throughput, and dam levels. This essential data can be stored in the cloud and extracted in report form. Additionally the live data provides dedicated personnel insights, allowing them to remotely monitor and control their evaporators as needed for optimal performance and cost savings.

About Us

Our research and development team consistently seek to improve the design, materials, and technology aspects of our evaporators in order to deliver cost effective, safe, and productive units.



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