



MEG Concentrator

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A key component of Inland's glycol recycling process is the patented "MEG Concentrator". This technologically-advanced, cost-effective system removes water from collected glycols, producing a concentrated glycol/water mixture with up to 60% concentration. Concentrated fluids are typically distilled and reused for several applications including as feedstock for production of aircraft de-icing fluid and as heat transfer and engine coolants. These self-contained units are based on mechanical vapour compression.

The unit is skid mounted, which permits its operation from portable or fixed facilities. The system is highly energy efficient and operates at costs significantly less than other distillation or evaporation processes.

Clean Distillate

The MEG Concentrator outflow system has been fitted with a "scrubber" that reduces glycol concentrations to less than 1000 mg/L, meeting the most stringent environmental guidelines. In cases where we process material in two stages, the glycol in the distillate is reduced to 100 mg/L. If ultra-pure water is required, membrane treatment or other biological treatment processes are used.



The MEG Concentrator separates water from collected glycol effluent using a fraction of the energy of conventional technologies.

Ease of Use

The MEG Concentrator is designed to operate with minimal maintenance and operational attendance. The computer controlled operating system has built-in safety systems and checks, further ensuring ease of operation.

Since first being developed, the MEG Concentrator has processed approximately 650,000,000 liters of effluent.

The MEG Concentrator is part of a process of continuous improvement.

MEG Concentrator Specifications

Capacity [each]	17,000 lpd; 4500 gpd [scalable system]
Infeed concentration	1% to 25% [typical]
Concentrate output	50% to 60% glycol solution
Distillate quality	Water at 100 mg/L glycol [or less if required]
Energy	Electricity. Significantly less than conventional technologies
Footprint	6.1 m x 1.83 m x 2.5 m high + 6.7 m scrubber 20 ft x 6 ft x 8' 2" high + 22 ft scrubber

