Highly efficient cooling with Outotec cooling towers

Outotec cooling towers provide high-efficiency direct-solution cooling for applications such as spent electrolyte cooling and gypsum removal. The advanced design provides high availability and streamlines maintenance procedures, reducing operational costs. Manufactured with fiber-reinforced plastic using appropriate resin systems, the towers have good acid resistance and high structural strength, and are equipped with anti-scaling cloth. Their advanced design, innovative technology, and excellent emissions-reduction performance make them the industry benchmark.

**BENEFITS**

- Efficient, sustainable cooling
- Minimized emissions
- Easy maintenance and increased availability
- Increased feed rate
- Lower inlet and outlet temperature
More efficient, sustainable cooling
Outotec cooling towers have an advanced, compact design with careful nozzle and fan placement for the best possible cooling efficiency. Their variable-speed drive ensures the tower provides a constant solution outflow temperature in varying conditions. The size of the droplets dispersed from the nozzles is small enough for optimal cooling, but not so small that they increase emissions.

Environmental impact is further minimized by horizontal-flow demisters, which enable considerably lower emissions than conventional vertical-flow demisters. This innovative design can reduce emissions to as low as 20% of the levels possible with traditional cooling towers.

Lower investment and easier maintenance
Compared to conventional towers, Outotec cooling towers have larger air throughput per demister area, so you benefit from the same cooling power as a traditional installation but using smaller equipment and fewer towers. This means lower initial investment and lifetime operating costs.

Because the cooling towers can still be used during demister cleaning – the most common maintenance procedure – you benefit from increased uptime compared to conventional towers. All parts that need regular maintenance are easily accessible from the top platform for improved speed and safety.

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Increase production by replacing conventional cooling towers
Outotec cooling towers have been used to replace conventional towers, including spent electrolyte-cooling towers in zinc plants. These replacement towers have improved production in zinc refineries by providing increased feed rates and lower inlet and outlet temperatures.

Outotec cooling towers have an advanced, compact design for the best possible cooling efficiency. Outotec also offers a gypsum removal plant, including cooling towers and all other equipment necessary for efficient gypsum removal.