

## Cooling Tower

### Case Study for GPM



Founded in 1978, GPM is the original equipment manufacturer (OEM) of the GPM-Eliminator™ horizontal and submersible pumps. The Company also represents world-class manufacturers providing solutions in air handling, mechanical seals, gearboxes, material handling systems, cooling towers, valves and many other products. GPM employs 70 people throughout its six locations in Minnesota, Montana, North Dakota and Ohio.



EvapTech® is a premier cooling tower designer, manufacturer and contractor providing research powered solutions for customer needs in the power generation, industrial, refrigeration and HVAC evaporative cooling markets. As a wholly-owned subsidiary of Evapco, Inc., EvapTech offers new and replacement field-erected cooling towers and a variety of cooling tower aftermarket services, including replacement parts.



**Project:** Bushmills Ethanol – 2017 Plant Expansion Project  
**Location:** Atwater, MN  
**Product/Scope:** EvapTech Series EC Fiberglass Counterflow (Model EC242-442R)  
**Tower Data:** 20,000 gpm, 2-cells at 200bhp, EvapTech TechClean 312 Low Fouling Fill

EvapTech completed a 2-cell FR fiberglass counterflow cooling tower at Bushmills Ethanol's ethanol production facility in Atwater, MN. Commissioned in June 2018, the tower supports the new expansion at Busmills. The new tower is part of the first phase of the plant expansion and designed with the future in mind. Additional cooling can be added without any current plant interruption.



**Project:** Heartland Corn Products – Cooling Tower Upgrade Project  
**Location:** Winthrop, MN  
**Product/Scope:** EvapTech Series EC Fiberglass Counterflow (Model EC436-530P)  
**Tower Data:** 40,000 gpm, 4-cells at 150bhp, EvapTech TechClean 312 Low Fouling Fill

EvapTech completed a 4-cell FR fiberglass counterflow cooling tower at Heartland Corn Product's ethanol production facility in Winthrop, MN. Commissioned in June 2016, the tower replaced a 20-year-old wood tower that was in disrepair. The new tower increases capacity while decreasing safety risks and avoiding the pluming of Highway 19. McGough Industrial Construction served as general contractor with Karges-Falconbridge, Inc. as owner's engineer.



**Project:** Chippewa Valley Ethanol (CVEC) – Cooling Tower Replacement Project  
**Location:** Benson, MN  
**Product/Scope:** EvapTech Series EC Fiberglass Counterflow (Model EC436-542M)  
**Tower Data:** 24,000 gpm, 4-cells at 100bhp, EvapTech TechClean 312 Low Fouling Fill

After CVEC personnel visited EvapTech's tower at Heartland Corn, they knew EvapTech was the right team to replace outdated towers at CVEC's Benson, MN facility. EvapTech completed the 4-cell FR fiberglass counterflow cooling tower in late 2016, replacing two cooling towers of lesser capacity. The new tower location eliminates pluming issues that plagued the CVEC administration building. CVEC self-performed all general contractor and engineering functions.



**Project:** Al-Corn Clean Fuels – 70 MMGY Expansion  
**Location:** Claremont, MN  
**Product/Scope:** EvapTech Series EC Fiberglass Counterflow (Model EC345-542P)  
**Tower Data:** 33,000 gpm, 4-cells at 150bhp, EvapTech TechClean 312 Low Fouling Fill

Commissioned in 2018, EvapTech was awarded this 4-cell fiberglass counterflow tower at Al-Corn's existing ethanol facility in Claremont, MN. The new tower was completed in the Fall of 2017, and commercial operation began in March 2018. The Al-Corn project represents EvapTech's second project in as many years with McGough Industrial Construction as general contractor and Karges-Falconbridge, Inc. as owner's engineer.