



PREVOST

THE ULTIMATE EXPERIENCE

ELECTRIFYING THE FUTURE

Prevost offers the only electric cooling package for a powertrain of up to 500Hp. This innovative and fully integrated system was designed by Prevost for the H and X models to specifically address customer requests for improved performance, uptime and increased profitability.

This inventive system is the next step in Prevost's vision for electrification through realistic solutions for everyday motorcoach operations .



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HOW IT WORKS

Prevost's electric fan drive development was made possible by an in-house integration of all systems including a new electrical architecture. The new fans offer a progressive speed that is adjusted on demand from the engine cooling system. Since they are not driven by the engine, more power is available at the wheels. In addition, batteries automatically recharge during times when engine demand is low.



The side by side configuration allows the complete surface of both the radiator and the Charge Air Cooler (CAC) to receive fresh air. Debris cannot accumulate between them and the system logic was built with the following features to keep them clean and fully efficient at all time.

In winter conditions: Fan rotation is reversed on a regular basis to push snow, ice, and sleet out of the radiator and CAC surface. In normal operation, air is pulled in the engine compartment.

In summer conditions: Fans are turned off from time to time so that any debris blocking air flow will drop off. For example, plastic bags can stick to the radiator door due to fan suction effect.

Both CAC and the radiator fans are split in 2 independent groups driven by a different multiplex module for complete redundancy to avoid coach down situation related to fan issues. The vehicle can operate with only 1 of the 2 systems.



✓	Fuel economy improvement of up to 4%*
✓	Avoid coach down situations with complete system redundancy
✓	Increase available power up to 50hp in some specific operating conditions, thereby giving more power to the wheels
✓	Improve reliability of cooling system
✓	Increase access for easier maintenance of the engine and cooling system
✓	Lower operating cost



* Fuel economy was validated using Computational Fluid Dynamics (CFD) applied to line-haul and tour and charter typical duty cycles and through more than 300,000 miles of road testing done in extreme weather conditions.