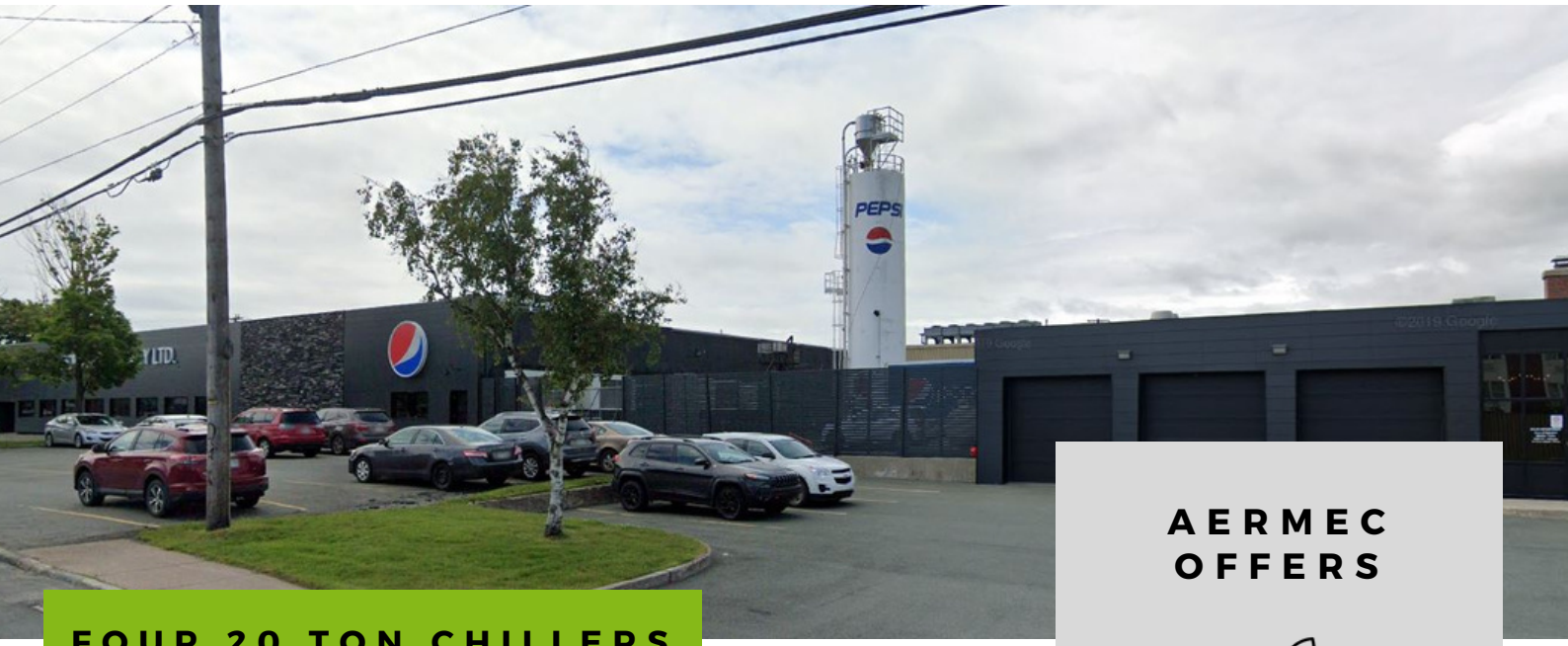
PEPSI

ST. JOHNS | NL



FOUR 20 TON CHILLERS

The Pepsi plant in St. John's, Newfoundland needed to improve the performance of their can filling process. When water and soda pop syrup are mixed the temperature of the mixture increases. If the temperature of the mixture is too high, CO^2 will not remain in solution, preventing full filling of the cans, which are then rejected, hence the need for the water to be as cold as possible is crucial.

Additionally, the release of CO^2 into the plant creates an indoor air quality problem. Extraction systems have been installed, but unless fresh outdoor air is introduced, their effectiveness is reduced. This sets up two energy use scenarios, increased power to produce colder water and the need to reheat outdoor air as it is introduced.

The solution was to install four Aermec air to water (glycol) heat pumps that will perform both water chilling and air or plant heating. The heat pumps are fully utilized and produce heating at a cost advantage.

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