

12-STORY APARTMENT BUILDING LONDON, ON

YANMAR



“Since installing our first YANMAR CHP System in April 2018, the system has operated with no issues. We are very happy with the savings the CHP system provides, and are interested to see how it will perform over time.” - Property Owner.



Project Overview

This facility is a 12-story multi-family apartment building located in London, Ontario. The building consists of multiple one and two-bedroom apartments, as well as a saltwater pool, hot tub, and sauna. DBS installed a 35 kW YANMAR combined heat and power (CHP) system on the building's roof to provide 24/7 power and hot water to the facility.

Reason for Choosing YANMAR

As a multi-family apartment building, Destaron wanted a system that would save operating costs, while also providing reliable, efficient operation. YANMAR's CP35D1-TNUG unit is able to produce 204,040 BTUs of heat per hour and 35 kW of electricity on-site using a natural gas engine.

The system operates with an overall efficiency of 88% and a noise rating of 62 dB(A) from three feet, which means there is no disturbance to the building's residents. Plus, the system is able to modulate to match the building's load, which is typically lower during nighttime hours and the shoulder season.

In addition, the YANMAR system also provides consistent operation with a 7,500-hour maintenance interval and 24/7 remote monitoring capabilities for faster unit servicing by their local dealer, DBS (www.dbspowerenergy.com).

About YANMAR America Energy Systems

YANMAR America Energy Systems in the North, Central and South American headquarters for the company's Variable Refrigerant Flow and Combined Heat and Power systems. Our team and products are focused on sustainability, reliability, and efficiency.



QUICK FACTS

APPLICATION: Multi Family **LOCATION:** London, ON **COMMISSIONING DATE:** April 2018 **PRODUCT INSTALLED:** CP35D1-TNUG **RESULTS:** Quiet & efficient operation / Consistently reliable operation, clean, efficient natural gas / 7,500-hour maintenance interval



RESULTS

- Overall, the CP35D1's utilization is high, averaging 93% over seven months.
- The CP35D1 has resulted in an average monthly savings of \$2,400 by switching to natural gas driven electric and heat production.
- The unit has provided consistently reliable operation with an average of 668 operation hours per month.

CONCLUSION

The project successfully demonstrates the application of YANMAR's CHP system for a multi-family apartment building. The unit has lived up to its promise of high reliability and savings during the first seven months of operation due to a well-designed project application.

YANMMAR mCHP savings - April through October 2018

