

**LUXURY HOME  
SCARSDALE, NY**

**YANMAR**

“In the first month of operation alone, the YANMAR CP10WN saved us \$5,000. The system overall has exceeded our expectations, while providing us with consistent access to both heat and electricity.”  
- Tom Harris, CEO of Yak-Tat Kwaan, Inc.



### **Project Overview**

A luxury homeowner in Scarsdale, New York desired a more efficient way to heat and power their 90-year-old 10,000 square foot home and in-ground pool once belonging to Mr. Gilbert Clifford Noble of Barnes and Noble. The YANMAR dealer elected to install the YANMAR CP10WN-SN with blackout start for the home's heat and power needs along with a geothermal system for the cooling needs.

### **Reason for Choosing YANMAR**

Since the residence was originally built in 1926 and is large, it is very expensive to power, heat and cool. The homeowner desired not only to reduce their costs, but to do so using environmentally friendly technology that would also increase the home's efficiency.

The 10 kW YANMAR Combined Heat and Power (CHP) system powered by natural gas fit the home's electrical requirements, as well as the domestic hot water and pool heating requirements. The size of the unit also matched the designated installation area within the home.

Other attractive benefits of the unit included the blackout start option, which allows for continuous heat and power separate from the grid, which is unstable in their area; quiet operation since the unit is located within the basement of the home adjacent to other occupied rooms and an extended 10 years/60,000 hours maintenance contract option for peace of mind.

### **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:** Residential **LOCATION:** Scarsdale, NY **COMMISSIONING DATE:** January 2013  
**PRODUCT INSTALLED:** CP10WN-SN **RESULTS:** Quiet operation: 56 dB(A) at 3 ft. / Consistently reliable operation  
Reduced power and heating costs



## RESULTS

- Low electric costs as a result of running the unit 24/7. Due to the area's high electric rate, it is efficient to run the unit even during summer months.
- Heating costs have been reduced substantially; the geothermal units are primarily used for cooling needs with YANMAR's unit meeting the home's heating requirements.
- The CP10WN has experienced no downtime with the only service interruptions occurring during scheduled maintenance.

## CONCLUSION

The project successfully demonstrates the application of the YANMAR mCHP in a residence. The unit has delivered on its promise of consistent operation, while also offering an average monthly savings of over \$700 a total savings of \$8,900 over a 12 month period.

**YANMAR mCHP Savings - November 2015 through October 2016**

