



**By utilizing natural gas, the YANMAR VRF systems were able to reduce our reliance on electricity, which results in a monthly operational cost savings and a lower overall life cycle cost.” - Nolan Crisp Recreation Director for the City of Trion**



### **Project Overview**

Trion Recreation Center is an older building, which houses a full basketball court, stage, offices, classrooms and bathrooms in the city of Trion, Georgia. The building is one of the main gathering points of the community, and it hosts many functions throughout the year. The city chose to install 66 tons of outdoor units in addition to 15 indoor units with individual navigation remote controllers, a central iTouch Controller and YANMAR remote monitoring system.

### **Reason for Choosing YANMAR**

The mayor and other city officials chose the YANMAR system due to the projected savings resulting from a decreased electrical load. The return on investment period was calculated to be 7 years based on switching to natural gas, projected installation costs and maintenance costs.

YANMAR was able to work with the city to create a project scope that benefited the community's interests, and was on schedule and budget.

The community also wanted the benefit of zone controls, which can be locked to avoid unauthorized use, and can be programmed for special events or on a set schedule to maximize savings.

Plus, by using YANMAR's 24/7/365 remote monitoring system, YANMAR technical representatives will be notified of any problems that occur, so that they can be resolved quickly for increased unit uptime.

### **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

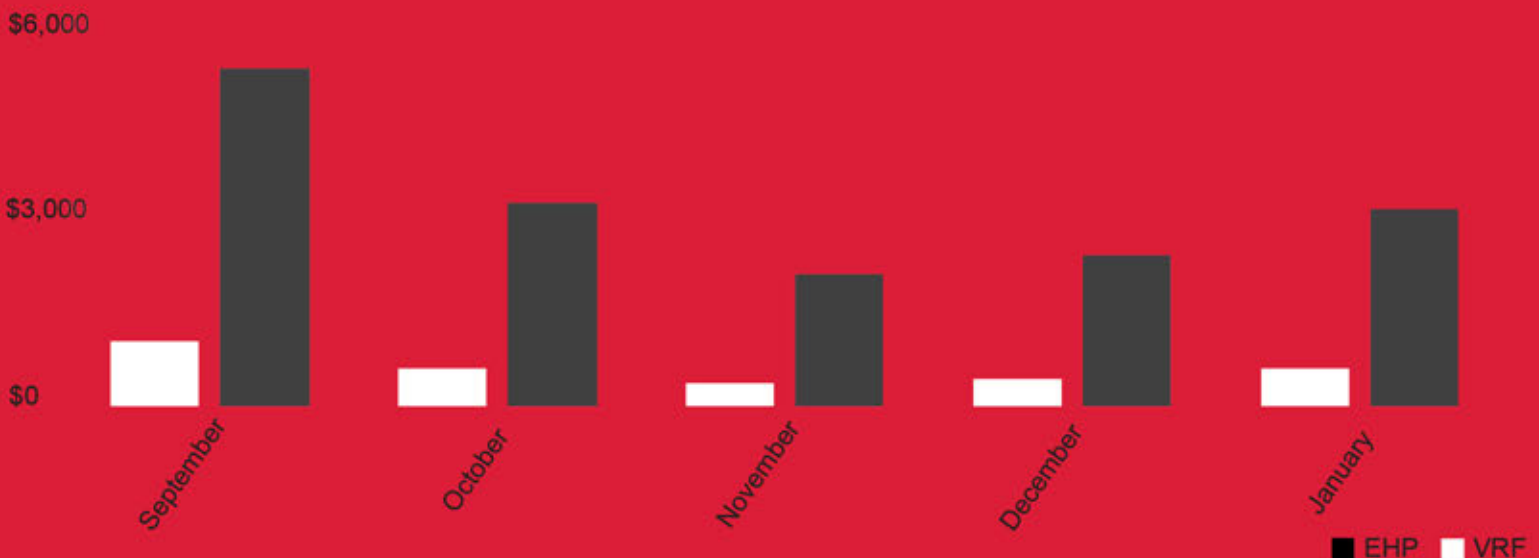
**APPLICATION:** Recreation Center **LOCATION:** Trion, GA **COMMISSIONING DATE:** August 2017  
**PRODUCT INSTALLED:** NNCP096JN x1, NNCP120JN x3, & NNCP168JN x2 **RESULTS:** Reduced operating costs, zoned control, & remote monitoring



## Results

- Reduced electrical consumption for heating and cooling the building by switching to a natural-gas driven YANMAR engine from an electric-based system.
- Average savings of more than \$2,400 per month during the first five months of operation.
- By using natural gas as an energy source, the building produces lower amounts of harmful emissions than traditional heating and cooling equipment.

**YANMAR VRF Operating Costs - September 2017 through January 2018**



*Operating costs data is a calculated estimate only based on Remote Monitoring data and local average utility costs or bills.*

