

## Project Details

Client: **Telephone Service Company**  
Design Professional: **Smith-Boughan**  
Services Provided: **Engineering - HVAC Service**  
Market: **Commercial-Office Building**  
Location: **2 Willipie Street, Wapakoneta, Ohio 45895**



## Project Summary

TSC was tired of paying for overtime service calls. When a problem occurred with the HVAC system it negatively affected the IT equipment's operation until the cooling system could be repaired making the HVAC system crucial to the success of their business. Their aging system was plagued with operational problems causing reliability issues and was not designed to provide 100% redundant backup capability.

### **Solution**

- Designed 100% redundant cooling system to maintain consistent temperature in server/data room
- Installed (4) Mitsubishi P-series mini-split ductless a/c units (allowed for convenient installation without the use of a crane and closure of a busy downtown street)
- Seamless installation without disruption to TSC's daily operation

### **Benefits**

- Efficiency- the P-series utilizes inverter technology for maximum energy efficiency allowing each compressor to vary its speed to match the load requirements at any time. Inverter technologies reduce energy usage, on/off cycling and wear/tear on the compressor.
- Redundancy- utilizing multiple mini-split units, strategically spaced in the IT/server room, allows each unit to "back up" the others in the event of an operational failure. This reduces the impact of over-time service calls and also maintains consistent temperature within the space.
- Value- when compared to traditional IT/Server cooling equipment, we were able to provide more features (total capacity, inverter technology, 100% redundancy, efficiency) for less cost.

The Mitsubishi P-series cooling solution has proven itself extremely reliable and capable of precise temperature control in this application. With nearly a full year of operation the customer reports they couldn't be more satisfied and are planning to install this solution in other facilities.

*[TSC is an independent telephone company that has been serving Wapakoneta, Criddersville and surrounding areas with phone service since 1895. TSC also provides world-class business voice and data solutions to small and medium sized companies.]*