

## Mansfield City Municipal Complex

The HEI Engineering Group recently upgraded the chilled water plant at the Mansfield City Municipal Complex in Mansfield, OH. Two 115 ton indoor hermetic centrifugal water chillers and a roof mounted cooling tower had provided chilled water to the cooling coils of twelve indoor air-handling units since the nine-story office building was built back in 1975.

Today the same 230 ton plant utilizes a much smaller footprint via a bank of four indoor modular air-cooled chillers. Each chiller is paired with a remote outdoor condenser located on the third floor roof adjacent to the mechanical room that houses the chillers.

Two 15HP chilled water system pumps each with a variable frequency drive, digital temperature controls with BACnet communication capabilities and associated electrical distribution were also upgraded for an overall more efficient chiller plant.

### **HEI USEFUL TECH NOTE:**

A maintenance item that has since been added to this Owner's list is to inspect strainers on a regular basis that are located within the supply piping to air-handling unit hydronic coils. The strainers, depending on the size and/or style, should either be cleaned and flushed, or replaced as necessary. This will help to maintain, or even improve, system flow within any hydronic system. It will also reduce utility costs because the associated system pumps won't have to work so hard to push water through the dirty strainer, which means less energy usage, especially if pump speed is controlled by a variable frequency drive.





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