



## CHILLING OF SURGICAL SUITES

### Background...

Surgeons, especially in Cardiac Surgical Suites, require much lower ambient temperatures in order to reduce patient metabolism during procedures, but typical coils and infrastructure are not designed to accommodate it.

### Solution...

ArctiChill provides a self contained utility chilled water cooled system to reduce the temperature and/or pressure of chilled water to the Suite coils.

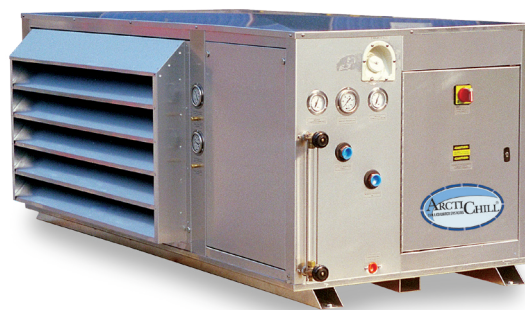
### Results...

The existing coils, piping and ducts are able to produce a lower suite temperature by increasing the mean temperature differences, even at the low ambient temperatures in the Suite.

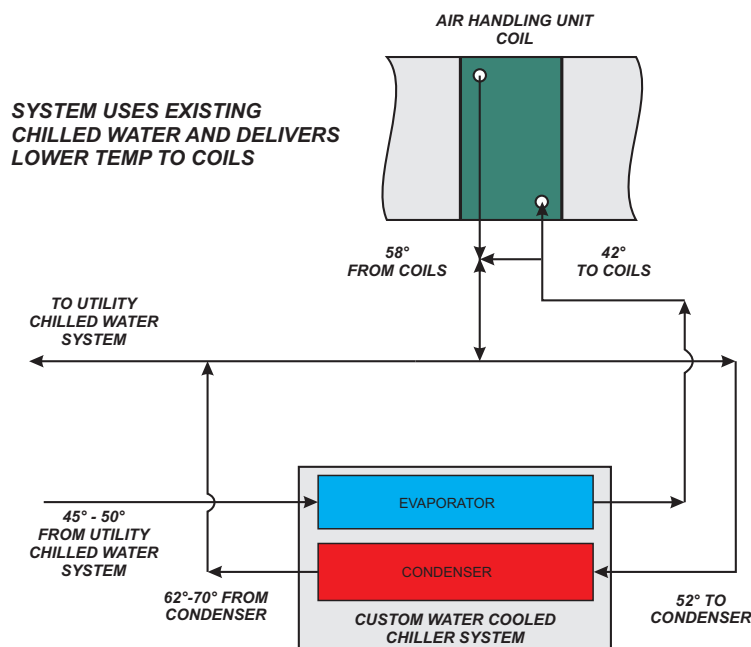
- Equipment is designed to operate with utility chilled water at lower discharge temperature without freezing.
- Condensers are designed for the lower temperature cooling provided by the chilled water source.
- Systems can be designed to use self contained or remote air cooled condensers; or cooling tower water.
- Maintaining adequate condensing pressure while using chilled water condensing is controlled by pressure actuated thermostatic water valves.



The ability to maintain low ambient temperatures and humidity in Surgical Suites is critical more many procedures.



Compact water-cooled self contained or air cooled chillers with full redundancy can solve many critical-duty needs for imaging, blood cooling and Surgical Suites.



Custom open-frame system is one of several delivering low-temperature water to Cardiac Surgical Suite.